REPORT

Voluntary Remediation Program
Compliance Status Report
Fashion Care/Executive Care Site
HSI No. 10786
2211 Savoy Drive
DeKalb County
Chamblee, Georgia

Project Number
2015.0058.02

Report Date:
April 7, 2015

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April 7, 2015

Robin S. Futch, PG, PMP
Compliance Officer
Response and Remediation Program
Land Protection Branch, GA EPD
2 Martin Luther King Jr. Drive
Suite 1054 East
Atlanta, GA 30334-9000

RE: Voluntary Remediation Program
Compliance Status Report
Fashion Care/Executive Care Site
HSI No. 10786
2211 Savoy Drive, Chamblee, Georgia
DeKalb County
Project No. 2015.0058.02

Dear Ms. Futch:

This Voluntary Remediation Program Compliance Status Report (CSR) for the Fashion Care/Executive Care Site, HSI No. 10786, 2211 Savoy Drive, Chamblee, Georgia, DeKalb County; is being submitted on behalf of John F. Rowan, Sr. Item IV Trust. Assessment and corrective action has been conducted on this site to bring it into compliance with the VRP, and subsequently, removal from the HSI.

The substantive work described in this report was performed under the direction of Leonard J. Diprima, Jr., P.G. Please contact Mr. Diprima if you have any questions or comments regarding the information contained herein.

Sincerely,

UNITED CONSULTING

Leonard J. Diprima, Jr., P.G.
Project Manager/Senior Environmental Specialist

Russell C. Griebel, P.G., C.P.G.
Executive Vice President

Cc: Catherine Norris, Trust Representative
Scott Hitch, Esq., Burr & Forman LLP, Trust Counsel

LJD/RCG/tl

SharePoint: 2015.0058.02

Voluntary Remediation Program Compliance Status Report

Image Courtesy of Google Earth

Fashion Care/Executive Care Site
HSI No. 10786
2211 Savoy Drive, Chamblee, DeKalb County, Georgia

Prepared For
John F. Rowan, Sr. Item IV Trust
PO Box 197, Carmel Valley, CA 93924

April 7, 2015

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1.0 INTRODUCTION

United Consulting has prepared this Voluntary Remediation Program (VRP) Compliance Status Report (CSR) for the Fashion Care/Executive Care Site (Site/Fashion Care), Hazardous Site Inventory (HSI) No. 10786, located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, on behalf of the John F. Rowan, Sr. Item IV Trust (Trust), the previous owner of the property and responsible party under the VRP. The Site location is presented on Figure 1.

Figure 2 shows the Fashion Care property and surrounding properties. The Fashion Care /former Trust property currently has a single, one-story building that contains a dry cleaner on the west side with on site cleaning, and a vacant space on the east side. A dry cleaner has been located in the building since the building was constructed in the 1960's. The east side of the building has contained various retail and restaurant businesses. The remainder of the property is paved with asphalt.

Parcel 18-343-13-005, street address 4306 North Peachtree Road, Chamblee, Georgia is immediately to the west, and is owned by Mr. H.A. Rowan of Southern Automatic Company. The property has a single, one-story building that contains a dentist office, a beauty shop, and other retail stores. The remainder of the property is paved with asphalt.

Parcel 18-343-13-001, street address 4308 North Peachtree Road, Chamblee, Georgia is immediately to the east, is owned by Mr. Marvin Hewatt of Georgia-Alabama Commercial Investments, LLC. The property has a single, one-story building that contains a gas station (UST Facility I.D. No. 900341*1; EZ-Serve Site). The remainder of the property is paved with asphalt and concrete.

Parcel 18-333-02-023, has no street address and is immediately to the east. It is owned by Asl Limited Partnership of Boca Raton, Florida; and is wooded, undeveloped property. The south side of the parcel is bordered by Nancy Creek.

A historical release of tetrachloroethene (PCE) and its degradation products to soil from dry cleaner operations conducted at the Fashion Care dry cleaner property was identified in 2004. As a result, a Hazardous Sites Response Act (HSRA) Program Release Notification was submitted to the Georgia Environmental Protection Division (EDP) HSRA Program on March 24, 2004. The EPD listed the property/Site on the Georgia HSI on July 29, 2004 for a release of regulated constituents to soil. A copy of the HSI listing and the EPD HSI Listing Letter is in Appendix A. On June 30, 2006 the EPD issued a HSRA CSR Call-in Letter to the Trust requiring the assessment of soil and groundwater related to the historical release. A summary of assessment and remedial actions conducted by the Trust under the HSRA Program are summarized in Sections 7.0 and 8.0, respectively. The constituents of interest (COI) established during the HSRA investigation and approved by the HSRA Program, and later by the VRP, are PCE and its regulated degradation constituents and are listed in Table 1. Table 1 also provides a list of other constituents identified but not associated with the Fashion Care release.

During the course of addressing the release of dry cleaner constituents under the HSRA Program and VRP, the Trust (owner at the time) required the current dry cleaner tenant to discontinue the use of PCE in their operation and the PCE dry cleaning machine was replaced in May 2009 with a non-chlorinated solvent based dry cleaning machine. No PCE remains on the Site and the last additional suspected source of release, a leaking sanitary sewer collection sump that was part of the original building construction in the rear of the building, has been twice cleaned and resealed.

The HSRA Program on February 23, 2010 presented a proposed Consent Order to the Trust and requested a revised HSRA Corrective Action Plan (HSRA CAP). In response and in place of a revised HSRA CAP, on July 9, 2010 the Trust entered the Site into the VRP with the submittal of a VRP CAP (Appendix B), which was approved with comments by the EPD in two correspondences dated December 2, 2010 (Appendix A). Since EPD approval of the VRP CAP, and entry into the VRP, site evaluation and corrective actions under the VRP have progressed steadily and updates of the progress documented in Semiannual Status Reports beginning June 2, 2011 through the last report submitted December 19, 2014. The eight VRP Semiannual Status Reports previously submitted to the EPD are provided in Appendix B. A summary of the activities conducted under the VRP are presented in the Sections below.

During the course of the HSRA and VRP assessments conducted for soil, groundwater, surface water, sediment and soil vapor; impacts associated with the release of PCE were identified on the following properties. Each of these properties was originally entered into the VRP as part of the Site as a "qualifying property", as defined by the Voluntary Remediation Program Act (Act).

- Fashion Care property, 2211 Savoy Drive, Chamblee, Georgia (Parcel 18-343-13-002) – Soil, groundwater and potential soil vapor impacts were identified.

- Southern Automatic Company property, 4306 North Peachtree Road, Chamblee, Georgia (Parcel 18-343-13-005) – Soil, groundwater and the potential for soil vapor impacts were identified.

- Asl Limited Partnership property, no street address and immediately to the east bordering Nancy Creek (Parcel 18-333-02-023) – Groundwater, surface water and the potential for soil vapor impacts were identified.

- Georgia-Alabama Commercial Investments, LLC property, 4308 North Peachtree Road, Chamblee, Georgia (Parcel 18-343-13-001) – Groundwater and the potential for soil vapor impacts were identified.

Each of these properties were also found to be impacted by a release of petroleum from gas station underground storage tank (UST) systems located on the adjacent Georgia-Alabama Commercial Investments, LLC property (UST Facility I.D. No. 900341*1; EZ-Serve Site). This petroleum release underwent remediation through the EPD Underground Storage Tank Management Program (UST Program) and received a "No Further Action Required" status. A dual-phase extraction system was operated to recover free-phase gasoline on the property. The dissolved phase gasoline constituents have migrated off the property to the south and west. The

remediation system was not designed to address the groundwater plume, and the plume of petroleum constituents has comingled with the dissolved-phase chlorinated solvent plume originating from the Fashion Care property.

As part of the assessment of the release under the VRP, the horizontal and vertical extent of the soil impacts were delineated. Figure 3 shows the extent of impacted soil relative to Type 3/4 non-residential Risk Reduction Standards (RRS) and Type 5 RRS. The majority of soil above non-residential RRS is present beneath the concrete slab of the existing building and on the Fashion Care property. A small area of impacted soil is projected to be on the adjacent Southern Automatic Company property based upon the soil sample control. Soil impacts extend vertically to the water table in much of this area. The soil remedy established under the VRP is a Type 5 solution using engineering and institutional controls to mitigate the potential exposure pathways. The existing concrete building slab and surrounding asphalt paving provides a cap for the impacted soil, and the maintenance of the cap, and health and safety requirements associated with future construction or utility work/worker exposure is assured through the use of Uniform Environmental Covenants (UECs) that have been established for the Fashion Care and Southern Automatic Company properties.

The horizontal and vertical extent of groundwater impacts from the dry cleaner release have been delineated under the VRP. The most recent set of groundwater data collected from the Site was in April 2014 and is depicted on Figure 4 relative to Type 1 and 3 RRS and Type 5 RRS. The plume extends southwest from the Fashion Care property source area toward and intersecting with Nancy Creek bordering the Asl Limited Partnership property. Impacted groundwater is present on portions of the Fashion Care, Southern Automatic Company, Asl Limited Partnership and the Georgia-Alabama Commercial Investments properties. The plume was determined to be confined vertically to the water table aquifer which is perched upon a dense dry silt layer that is at least ten feet thick across the Site.

Numerous rounds of surface water samples were collected from Nancy Creek along the length of the groundwater plumes intersection with the creek. The COI have not been identified in any of the SW samples collected to date. In addition, sediment samples collected in this area also did not detect any of the COI.

The potential receptor for groundwater impacts is Nancy Creek. Due to the depth to groundwater across the Site, on average 10 feet or more below grade, direct contact by potential construction or utility workers was determined not to be a potential completed pathway for exposure. Surface water sampling and fate and transport modeling of the release have indicated that the groundwater plume is not predicted to be a potential completed pathway for exposure. This will be confirmed though a VRP Monitoring Plan and recalibration of the fate and transport model using the additional data collected. The proposed VRP Monitoring Plan is presented herein.

Soil and groundwater impacts were also determined to present a potential completed exposure pathway for soil vapor on some properties relative to current or future enclosed structures within the footprint of these impacts, which are currently the Fashion Care and Asl Limited Partnership properties. As a result, an active sub-slab vapor mitigation system was installed and is maintained beneath the existing building on the Fashion Care property. The assurance of the continued operation of the vapor mitigation system on the Fashion Care property is through the use of the UEC and annual submittal to the EPD of the completed Site Use, Activity, and Monitoring Evaluation Form.

The Asl Limited Partnership property currently has no structures within the current or predicted footprint of groundwater impacts. It was also determined that the construction of enclosed structures in this area are unlikely due to the following constraints: FEMA Flood Zone Restrictions, Stream Buffer requirements, the DeKalb County construction buffers associated with two active sanitary sewer lines that run through the affected portion of parcel, and the "Tf" soil designation as hydric soils in the impacted area associated with the regular flooding from Nancy Creek and potential wetlands designation. As a result, a UEC requiring vapor mitigation of structures was determined unnecessary, and potential future construction is monitored through the completion and annual submittal to EPD of the Fashion Care/Executive Care UEC Site Use, Activity, and Monitoring Evaluation Form.

All activities outlined in the July 9, 2010 VRP CAP, and other activities identified by the EPD as necessary during the CAP implementation, have been completed. Therefore, this VRP CSR and VRP Monitoring Plan have been submitted for review and approval by the EPD to remove the Site from the Georgia HSI.

2.0 VRP CHECKLIST

The original Voluntary Investigation and Remediation Plan Application Form and Checklist submitted in the July 9, 2010 VRP CAP has been updated and executed and is presented below. It should be noted that the Trust no longer owns the Fashion Care property (parcel 18-343-13-002). The property is now owned by Charles and Wendy Pero. The Pero's purchased the property on November 7, 2014, entering the property into the Georgia EPD Brownfield Program, and receiving a Limitation of Liability from Brownfield Program (Appendix A). Details associated with this transaction are in Section 13.0. The Trust still maintains responsibility for completing the VRP for the Site.

Voluntary Investigation and Remediation Plan Application Form and Checklist

VRP APPLICANT INFORMATION					
COMPANY NAME	John F. Rowan, Sr., Item IV Trust				
CONTACT PERSON/TITLE	Catherine Norris, Representative				
ADDRESS	PO Box 197, Carmel Valley, CA 93924				
PHONE	(831) 737-7990	FAX	N/A	E-MAIL	norrowcl@gmail.com

GEORGIA CERTIFIED PROFESSIONAL GEOLOGIST OR PROFESSIONAL ENGINEER OVERSEEING CLEANUP					
NAME	Leonard J. Diprima, Jr.			GA PE/PG NUMBER	949
COMPANY	United Consulting				
ADDRESS	625 Holcomb Bridge Road, Norcross, GA 30071				
PHONE	(404) 965-3348	FAX	(404) 233-6251	E-MAIL	Ldiprima@winter-environmental.com

APPLICANT'S CERTIFICATION

In order to be considered a qualifying property for the VRP:
(1) The property must have a release of regulated substances into the environment;
(2) The property shall not be:
- **(A) Listed on the federal National Priorities List pursuant to the federal Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. Section 9601.**
- **(B) Currently undergoing response activities required by an order of the regional administrator of the federal Environmental Protection Agency; or**
- **(C) A facility required to have a permit under Code Section 12-8-66.**

(3) Qualifying the property under this part would not violate the terms and conditions under which the division operates and administers remedial programs by delegation or similar authorization from the United States Environmental Protection Agency.
(4) Any lien filed under subsection (e) of Code Section 12-8-96 or subsection (b) of Code Section 12-13-12 against the property shall be satisfied or settled and released by the director pursuant to Code Section 12-8-94 or Code Section 12-13-6.
In order to be considered a participant under the VRP:
- **(1) The participant must be the property owner of the voluntary remediation property or have express permission to enter another's property to perform corrective action.**
- **(2) The participant must not be in violation of any order, judgment, statute, rule, or regulation subject to the enforcement authority of the director. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to**

assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I also certify that this property is eligible for the Voluntary Remediation Program (VRP) as defined in Code Section 12-8-105 and I am eligible as a participant as defined in Code Section 12-8-106.

APPLICANT'S SIGNATURE			
APPLICANT'S NAME/TITLE (PRINT)	Catherine Norris, Trustee	DATE	4/8/15

QUALIFYING PROPERTY INFORMATION

TAX PARCEL ID	18-343-13-002	PROPERTY SIZE (ACRES)	0.61
PROPERTY ADDRESS	2211 Savoy Drive		
CITY	Chamblee	COUNTY	DeKalb
LATITUDE	33° 55' 08.82" N	LONGITUDE	84° 17' 52.56" W
PROPERTY OWNER(S)	Charles and Wendy Pero	**PHONE #**	(678) 648-2017
MAILING ADDRESS	C/o The Sandler Law Group, LLC, 6400 Powers Ferry Road, NW, Suite 200		
CITY	Atlanta	**STATE/ZIP**	GA 30339
TAX PARCEL ID	18-343-13-005	PROPERTY SIZE (ACRES)	0.51
PROPERTY ADDRESS	4306 North Peachtree Road		
CITY	Chamblee	COUNTY	DeKalb
LATITUDE	33° 55' 08.05" N	**LONGITUDE**	84° 17' 54.35" W
PROPERTY OWNER(S)	Mr. H.A. Rowan, Southern Automatic Company	**PHONE #**	
MAILING ADDRESS	**4420 Tree Haven Drive, NE**		
CITY	Atlanta	**STATE/ZIP**	GA 30342-3426
TAX PARCEL ID	18-333-02-023	PROPERTY SIZE (ACRES)	10.45
PROPERTY ADDRESS	No street address		
CITY	Chamblee	COUNTY	DeKalb
LATITUDE	33° 55' 06.82" N	**LONGITUDE**	84° 17' 54.51" W
PROPERTY OWNER(S)	Asl Limited Partnership	**PHONE #**	
MAILING ADDRESS	**1515 S. Federal Hwy., #300**		
CITY	Boca Raton	**STATE/ZIP**	FL 33432-7451

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ITEM #	DESCRIPTION OF REQUIREMENT	Location in VRP (i.e. pg., Table #, Figure #, etc.)	For EPD Comment Only (Leave Blank)
1.	**$5,000 APPLICATION FEE** IN THE FORM OF A CHECK PAYABLE TO THE GEORGIA DEPARTMENT OF NATURAL RESOURCES.	**Previously Submitted**	
2.	**WARRANTY DEED(S)** FOR QUALIFYING PROPERTY.	**Previously Submitted**	
3.	**TAX PLAT** OR OTHER FIGURE INCLUDING QUALIFYING PROPERTY BOUNDARIES, ABUTTING PROPERTIES, AND TAX PARCEL IDENTIFICATION NUMBER(S).	**Figure 2**	
4.	**ONE (1) PAPER COPY AND TWO (2) COMPACT DISC (CD) COPIES** OF THE VOLUNTARY REMEDIATION PLAN IN A SEARCHABLE PORTABLE DOCUMENT FORMAT (PDF).	**Previously Submitted**	
5.	The VRP participant's initial plan and application must include, using all reasonably available current information to the extent known at the time of application, a graphic three-dimensional preliminary conceptual site model (CSM) including a preliminary remediation plan with a table of delineation standards, brief supporting text, charts, and figures (no more than 10 pages, total) that illustrates the site's surface and subsurface setting, the known or suspected source(s) of contamination, how contamination might move within the environment, the potential human health and ecological receptors, and the complete or incomplete exposure pathways that may exist at the site; the preliminary CSM must be updated as the investigation and remediation progresses and an up-to-date CSM must be included in each semi-annual status report submitted to the director by the participant; a **PROJECTED MILESTONE SCHEDULE** for investigation and remediation of the site, and after enrollment as a participant, must update the schedule in each semi-annual status report to the director describing implementation of the plan during the preceding period. A Gantt chart format is preferred for the milestone schedule. The following four (4) generic milestones are required in all initial plans with the results reported in the participant's next applicable semi-annual reports to the director. The director may extend the time for or waive these or other milestones in the participant's plan where the director determines, based on a showing by the participant, that a longer time period is reasonably necessary:	**Completed**	
5.a.	Within the first 12 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern on property where access is available at the time of enrollment;	**Complete**	
5.b.	Within the first 24 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern extending onto property for which access was not available at the time of enrollment;	**Complete**	

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5.c.	Within 30 months after enrollment, the participant must update the site CSM to include vertical delineation, finalize the remediation plan and provide a preliminary cost estimate for implementation of remediation and associated continuing actions; and	**Complete**	
5.d.	Within 60 months after enrollment, the participant must submit the compliance status report required under the VRP, including the requisite certifications.	**Complete**	
6.	**SIGNED AND SEALED PE/PG CERTIFICATION AND SUPPORTING DOCUMENTATION:** "I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances. Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division. **The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."** Leonard J. Diprima, Jr. / Georgia PG #949 — April 7, 2015 Printed Name and GA PE/PG Number — Date Signature and Stamp		

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3.0 CERTIFICATION OF COMPLIANCE

A Certification of Compliance for soil, certifying compliance with Type 5 RRS, was submitted by the Trust in a letter to EPD dated October 29, 2014 (Appendix A). The EPD approved the Certification of Compliance in the Brownfield LoL issued to Charles Pero, the new Fashion Care property owner, in correspondence dated December 3, 2014 (Appendix A).

4.0 SITE TOPOGRAPHY, GEOLOGY, HYDROGEOLOGY AND HYDROLOGY

Topography across the Site, based upon visual relief and survey elevations of soil borings and monitoring wells, slopes gently to the south-southwest from Savoy Drive (approximate elevation 936 ft. msl) to Nancy Creek (approximate elevation 921 ft. msl). The banks of Nancy Creek adjacent to the Site are near vertical, dropping approximately 10 to 12 feet to the normal water level. On the south side of Nancy Creek, across from the Site, the topography begins to immediately rise approximately 260 feet to a knoll.

Surficial geology across the Site consists primarily of reddish-brown silt with varying minor amounts of sand and clay, overlying a grey to tan and grey silty sand to sandy silt with pebbles; which overlies a dense, dry silt of varying color across the Site. The presence of the dense, dry silt across the Site was confirmed in November 2013 by advancing 10 borings (SB-37 through SB-46, Figure 5) across the site to confirm the presence or absence of the dry silt, and utilizing existing borings that had been advanced deep enough to encounter the dry silt. Boring logs are provided in Appendix C.

The saturated soil zone is divided into an upper and lower water bearing zone, separated by the dense, dry silt indicated above. The thickness of the upper water bearing zone is greater near Savoy Drive and thins as Nancy Creek is approached. This is based upon the evidence that the upper water bearing zone is thinner adjacent to Nancy Creek where saturated conditions are encountered in borings as shallow as 5 feet below grade and the dense dry silt is encountered at 8 to 16 feet below grade. The dry silt was encountered at deeper depths at the higher elevations around the Fashion Care building, at approximately 23 feet below ground surface (bgs). Toward the creek, the dry silt was encountered at shallower depths ranging from 8 feet bgs (FMW-15) to 19 feet bgs (SB-46). The dry silt is very dense and the majority of borings drilled into this layer terminated with DPT refusal due to the hard nature of the material. When slight pressure was applied to a core of the silt it would crumble into loose material, indicative of the lack of moisture in the silt. To determine the general thickness of the layer to aid in planning the construction of a Type III monitoring well to be screened below the silt, one boring, SB-37, successfully penetrated the silt. The silt was found to be approximately 10 feet thick (23 feet bgs to 33 feet bgs) at that location.

It should be noted that the dense dry silt does not form the streambed of Nancy Creek adjacent to the Site as originally theorized. Based upon stratigraphic assessment of the streambed conducted in September 2014, Nancy Creek in the area of the Site is still eroding through the silty sand/sandy silt overlying the dense dry silt.

On April 22, 2014, an attempt was made to evaluate the lower water bearing zone that was theorized to be present downgradient below the dense, dry silt, but above the potential bedrock aquifer by installing a Type III double cased monitoring well (MW-18D) adjacent to FMW-5. This location was previously agreed to by EPD for installing a deep well to establish groundwater quality conditions beneath the dry silt. A pilot hole was first drilled to identify the top of and base of the dry silt to determine the placement of the outer casing for the deep

monitoring well. As anticipated, the dry silt was encountered at approximately 14 feet bgs, and water table aquifer conditions were encountered above the silt. However, bedrock was encountered immediately at the base of the dry silt at a depth of 33.5 feet bgs. A boring log is provided in Appendix C. As a result, the installation of the Type III well was aborted and EPD was notified of the conditions that were found. Based upon these findings, the following determinations were made:

- A Type III well could not be installed downgradient; and
- The water bearing zone present beneath the dry silt topographically upgradient near the Fashion Care building, appears to pinch out moving toward Nancy Creek, with the dry silt resting upon bedrock.

Based upon discussions with EPD regarding the conditions found during the attempt to install the deep well, it was determined in consultation with the EPD that the lithology did not support the installation of a deep well. The information obtained from this attempted installation of the Type III monitoring well was used to finalize the conceptual site model for the Site. This activity is described in the VRP Semiannual Status Report dated July 2, 2014 in Appendix B.

Potentiometric surface maps have been constructed for the Site using the monitoring wells present on site during specific monitoring events. Potentiometric surface maps of the Site dated July 2012 and April 2014 are presented in Figures 6 and 7. Water table measurements collected during these events are presented in Table 2. The water table elevation during these most recent events has ranged from approximately 13.05 feet below grade (FMW-1) to approximately 8.45 feet below grade (FMW-13) near Nancy Creek. Monitoring well constructions logs are provided in Appendix C.

Slug tests were most recently conducted in monitoring wells FMW-1, FMW-5 and FMW-9 in September 2014 to determine hydraulic conductivity in the shallow water bearing zone. The hydraulic conductivity ranged from 0.45 feet per day (FMW-1, slug-out) to 57 feet per day (FMW-9, slug-in). Slug test data is presented in Appendix D. The hydraulic gradient across the site was calculated by performing three-point problems using water table measurements in wells from the April 2014 groundwater data map (Figure 4). The hydraulic gradient ranged from approximately 0.022 ft/ft in the northeast portion of the site using wells FMW-5, FMW-7 and SB-24, to approximately 0.004 ft/ft in the southwestern portion of the site using wells FMW-9, FMW-10 and FMW-16.

Surface water runoff across the Site in paved areas runs into various storm water drop inlets and is discharged at various points into Nancy Creek bordering the south side of the Site. Surface water on unpaved areas, such as the Asl Limited Partnership property, infiltrates or runs overland to Nancy Creek. Nancy Creek borders the south side of the Site and flows generally northeast to southwest in the immediate area.

5.0 CONCEPTUAL SITE MODEL

In accordance with the VRP, a Conceptual Site Model (CSM) of the Site was prepared and updated as additional information for the Site was acquired during the implementation of the VRP CAP. The intent of the CSM is to present a conceptual rendering of the geology, hydrogeology, hydrology, Site structures, surface coverings, and distribution of released constituents in the various media. This model is then used to determine the various contaminant pathways and receptors, and evaluate them relative to potential and completed exposure pathways.

The final CSM is presented in the following cross-sections:

- From the source area at the dry cleaner building, downgradient to Nancy Creek, including monitoring wells FMW-6 and FMW-9 (Cross-section A-A');

- Perpendicular to cross-section A-A' across the source area at the dry cleaner building (Cross-section B-B'); and

- Perpendicular to cross-section A-A' along Nancy Creek (Cross-section C-C').

The CSM cross-section locations are shown on Figure 8. Figure 9 presents the CSM cross sections A-A', B-B' and C-C' as noted above. The CSM represents data acquired during the course of installing borings and monitoring wells, soil sampling conducted, groundwater monitoring data acquired April 2014, and water table measurements collected April 28, 2014.
The various receptors and exposure pathways are discussed in Section 11.0.

6.0 ENVIRONMENTAL INVESTIGATIONS UNDER HSRA

Several phases of soil investigation were conducted under the HSRA Program at the Site. Initially, assessment was conducted by Epic Consulting, Inc. of Atlanta, Georgia (Epic). The Epic soil investigations were conducted in August 2006 and April 2007. The focus of Epic's investigations was to define the extent of HSRA regulated chemicals in soil above non-residential RRS. Petroleum constituents associated with historical releases from the adjacent Former E-Z Serve UST site were also identified in soil on the Site above applicable Georgia UST Program Threshold Levels.

On May 31, 2007, Epic submitted a Revised CAP to the HSRA Program, proposing in situ chemical oxidation of chlorinated solvent impacted soil at the Fashion Care Site. This revised HSRA CAP was approved by the HSRA Program in correspondence dated December 28, 2007 with a number of conditions. Primary among these was the recommendation by the HSRA Program that a remediation process be utilized that would address both impacted soil and groundwater at the Site, and a reminder that chlorinated solvent groundwater impacts had neither been delineated nor addressed in the May 31, 2007 Revised HSRA CAP.

The Trust placed Winter Environmental under contract to move forward with implementation of the HSRA CAP in 2008, with a focus on addressing both soil and groundwater impacts at the Site. Winter Environmental began defining the horizontal extent of the COI groundwater plume, conducted a soil chemical oxidation event to attempt to remediate soil impacts, and collected additional soil samples for delineation and to determine the effectiveness of the chemical oxidation event. Soil analytical data collected at the Site is presented in Table 3. All groundwater samples collected since 2008, and those collected by the UST Program for the adjacent UST site in 2008, are presented in Table 4. All surface water samples collected from Nancy Creek by Winter Environmental in 2008 and 2010 and by other consultants under the VRP are presented in Table 5. Sediment samples collected from Nancy Creek by Winter Environmental in 2010 are presented in Table 6. Soil sample locations collected under the HSRA Program are shown on Figures 3, 10 and 13. Groundwater, surface water and sediment sample locations for the Site are presented on Figure 12. Boring logs and monitoring well construction logs installed by Winter Environmental under the HSRA Program are in Appendix C. Previous data produced by Epic was presented to the HSRA Program in a May 31, 2007 Revised HSRA CAP. Sample collection logs and laboratory analytical data reports collected by Winter Environmental are provided in Appendix C and E, respectively.

7.0 CORRECTIVE ACTIONS UNDER HSRA

Winter Environmental implemented, with some EPD approved modifications, the soil remediation approved in the HSRA May 31, 2007 Revised CAP prepared by Epic. A treatability study was conducted for designing the remediation of soil above RRS using insitu chemical oxidation. A treatability study report was prepared by ExoTech, Inc. and is provided in Appendix F. Prior to the remediation event an Underground Injection Permit was obtained from the EPD; Underground Injection Permit #393. A total of 21 soil injection wells were installed in and around the impacted soil area that was to be treated using sodium persulfate. The location of the injection wells relative to the impacted soil area is shown on Figure 13. The injection event was conducted on March 18 and March 19, 2009, injecting 4,480 lbs of sodium persulfate activated with 66 lbs of chelated iron, using 2,200 gallons of mixture. An Injection Summary report was prepared by ExoTech, Inc. following the remediation event and is in Appendix F.

On May 8, 2009 and May 18, 2009, following the soil chemical injection event, soil remediation confirmation samples were collected. Soil samples were collected from nine sample locations, SB-28 through SB-36, as requested by the EPD. The confirmation sample locations are shown on Figure 13. Samples were collected from three intervals from each boring; 0 to 2 feet bgs, approximately midway to the water table, and from the approximate two foot interval immediately above the water table. The confirmation soil sample laboratory results are presented in Table 6. The post-chemical oxidation sample results showed concentrations with little or no reduction, and some cases significantly higher concentrations of constituents than the pre-remediation design concentrations. Previously, the highest concentration of PCE in soil, 18.0 mg/kg, was in SB-27 at 0 to 2 feet bgs, immediately beneath the historical source, the old PCE dry cleaning machine. PCE concentrations in the post-remediation samples were higher on average at all locations than seen in the 2006 and 2007 Epic data, with concentrations up to 3,800 mg/kg at SB-32, 6 to 8 feet bgs. Tetrachloroethene (TCE) and cis-1,2-dichloroethene were also found above non-residential RRS at higher concentrations than had been seen in previous soil samples collected at the Site. Non-residential RRS exceedances of one or more of these constituents were found in all but one of the confirmation sample locations, SB-29. These higher concentrations appeared to be the result of the continued release of hazardous substances by the current dry cleaning operations. Further releases were mitigated by the removal of the PCE dry cleaning equipment from the Site in May and sealing of the sanitary system sump in the rear of the building. No additional active soil remediation has been conducted at the Site. A summary of the soil remediation event was submitted to the EPD HSRA Program in correspondence dated September 10, 2009 (Appendix F).

No active groundwater remediation has been conducted at the Site.

8.0 VRP ENVIRONMENTAL INVESTIGATIONS

Upon entering the VRP some of the requirements under the VRP had been addressed, or partially addressed while under the HSRA Program. The Sections below describe additional activities conducted under the VRP to address the Program's additional requirements.

8.1 Dry Silt Borings

To refine the CSM, ten (10) additional soil borings were advanced across the Site in November 2013 using a direct-push drilling method (DPT). These borings, SB-37 through SB-46 shown on Figure 5, were advanced to confirm the consistent presence of the dense, dry silt across the site and to determine the thickness of this layer. Five (5) previous borings on the Site near Nancy Creek had encountered the dry silt: FMW-12, FMW-15, FMW-16, old FMW-17 (boring was advanced but well not installed) and FMW-17. These additional borings confirmed the presence of the dry silt across the Site. As anticipated, the dry silt was encountered at deeper depths at the higher elevations around the Fashion Care building, depths ranging from 23 feet bgs to 23.3 feet bgs. Toward Nancy Creek, as ground surface elevations get lower, the dry silt was encountered at shallower depths below grade ranging from 8 feet bgs (FMW-15) to 19 feet bgs (SB-46).

The SB-37 and SB-38 boring locations were selected to attempt to penetrate the dense dry silt to determine the general thickness of the layer to aid in planning the construction of a Type III monitoring well to be screened below the silt. These locations were selected because they were outside the area of dry cleaner impacts. The dry silt was successfully penetrated in boring SB-37 and was found to be approximately 10 feet thick (23 feet bgs to 33 feet bgs). The silt was not penetrated in SB-38 before drilling refusal. Approximately 5 feet of dry silt was encountered before refusal. Boring logs for SB-37 through SB-46 are in Appendix C. All borings were abandoned with hydrated bentonite to form a seal.

Additional details are presented in the Semiannual Status Report date December 6, 2013 in Appendix B.

8.2 Additional Groundwater Delieation

A total of twenty monitoring wells were installed in the upper water bearing zone on the Site during the groundwater investigations under the HSRA Program and VRP; FMW-1 through FMW-17, and SB-24, SB-25 and SB-26. The "FMW" monitoring wells were installed using dual, DPT/HSA drilling rigs. For each monitoring well DPT was used to collect continuous soil cores to determine lithology and the position of the water table. The monitoring wells were installed using 4.25-inch ID HSA's, and 2-inch ID PVC riser and 10 feet of 0.01-inch slotted 2-inch ID PVC screen. The screens were set to span the water table. Above grade, stick-up completions (locking steel protective casings) were used on the undeveloped ASL property, and flush-mount completions were used on the paved, developed properties. Each monitoring well was fitted with a locking well cap and a surrounding concrete pad.

The "SB" monitoring wells were installed inside the Fashion Care building using DPT methods with 1-inch ID PVC riser and 10 feet of 0.01-inch slotted 2-inch ID PVC screen. The screens were set to span the water table. Flush-mount completions were used.

In addition, more than twenty monitoring wells were also installed by the EPD UST Program during the investigation of the EZ-Serve UST investigation and remediation on the Georgia-Alabama Commercial Investment and Fashion Care properties. Up to twenty of these monitoring wells were utilized for collecting groundwater measurements and samples in 2008 and 2010 for the dry cleaner release assessment, until they were abandoned by the EPD UST Program. Data collected from these wells are presented in Table 4, along with data from monitoring wells installed by the Trust.

Soil boring logs for each monitoring well are in Appendix C. Monitoring well construction logs are also in Appendix C.

As part of the implementation of the VRP, and in accordance with EPD comments to the VRP CAP dated December 2, 2010 (Appendix A), additional horizontal delineation of the groundwater plume was conducted and installation of a Type III, double-cased monitoring well installation was attempted.

As shown on Figure 11, which presents groundwater data from the July 2012 sampling event and is provided in the VRP CAP, additional delineation was required to horizontally delineate vinyl chloride identified in monitoring well FMW-15. On March 28, 2013, monitoring well FMW-17 was installed to the northwest of FMW-15. A dual, DPT/ HSA drill rig was used to install the monitoring well. DPT was used to collect continuous soil cores to determine lithology and the position of the water table. The water table was encountered at approximately 7.5 feet bgs. A soil boring log for FMW-17 is in Appendix C. The monitoring well was installed using 4.25-inch ID HSA's. A 2-inch ID PVC monitoring well was installed using 10 feet of 0.01-inch slotted PVC screen and PVC riser. The screen was set at 3.5 to 13.5 feet bgs. A monitoring well construction log for FM-17 is in Appendix C.

Following well development, FMW-17 was sampled for Target Compound List (TCL) volatile organic compounds (VOCs). Groundwater sampling was conducted using a peristaltic pump and the USEPA low flow/low stress method. Field measurements of pH, conductivity, dissolved oxygen, oxidation-reduction potential and temperature were collected every five minutes until all parameters stabilized within approximately 10 percent for three consecutive readings. When this stabilization point was reached, samples were collected for TCL VOCs using the pipette method. A groundwater sampling data sheet for this sampling event is in Appendix C.

The groundwater sample was secured in an ice-filled cooler and hand delivered to AES for analysis. Laboratory work orders, and chain-of-custody documents, which included information on project name and number, sampler(s) signature, project manager's name, sample matrix, sample identification/station ID number, date and time of sample collection, total number of containers per sample station, requested analyses and number of containers per analyses per

sample station, preservatives, and any other pertinent comments for the laboratory, were placed within each cooler for delivery.

The laboratory results are presented in Table 4, and the laboratory data report is in Appendix E. No VOCs were detected above the laboratory practical quantitation limit (PQL). This completed the horizontal delineation of COI. Additional details are presented in the Semiannual Status Report dated December 6, 2013 in Appendix B.

In an attempt to: 1) determine if COI had migrated through the dense, dry silt underlying the Site, 2) vertically delineate COI in groundwater downgradient, and 3) further refine the CSM; an attempt was made to install a Type III double-cased monitoring well, MW-18D, at the location shown in Figure 14. The location of the deep well was identified through interaction with the EPD. The outer casing was to be set within the dense, dry silt sealing off the water table aquifer (uppermost water bearing zone), and the inner casing and well screen was to be set within the lower water bearing zone below the dry silt and above bedrock.

On April 22, 2014, a dual, DPT/HSA drilling rig was mobilized to the site to install the Type III double-cased monitoring well adjacent to FMW-5. A pilot hole was first drilled to identify the top of and base of the dry silt to determine the placement of the outer casing. As anticipated, the dry silt was encountered at approximately 14 feet bgs, and water table aquifer conditions were encountered above the silt. However, bedrock was encountered immediately at the base of the dry silt at a depth of 33.5 feet bgs. A boring log is provided in Appendix C. As a result, the installation of the Type III well was aborted and EPD was notified of the conditions that were found. Based upon these findings, the following determinations were made:

- A Type III well could not be installed downgradient; and

- The lower water bearing zone present beneath the dry silt topographically upgradient near the Fashion Care building appears to pinch out moving toward Nancy Creek, with the dry silt resting upon bedrock.

Based upon discussions with EPD regarding the conditions found during the attempt to install the deep well, it was determined in consultation with EPD that the lithology did not support the installation of a deep well in a downgradient position and additional attempts would not be conducted. The information obtained from this attempted installation was used to refine the CSM to evaluate potential exposure pathways. Additional details are presented in the Semiannual Status Report date July 2, 2014 in Appendix B.

8.3 Additional Rounds of Groundwater Sampling

Two rounds of groundwater samples have been completed for the Site since entering the VRP in 2010, and were presented in Semiannual Status Reports dated December 3, 2012 and July 2, 2014. The rounds were conducted in July 2012 and April 2014. Surface water samples were also collected as part of both events and are described below.

Winter Environmental conducted a round of groundwater and surface water sampling July 10 – 13, 2012 to reestablish baseline groundwater conditions and current surface water conditions for the Site. The previous full round of groundwater samples were collected in 2010. A total of 18 monitoring wells; FMW- 1 through FMW-16, SB-24 and SB-26; were sampled for TCL VOCs. FMW-17, northwest of FMW-10 had not been installed at that time. One blind duplicate groundwater sample was collected from monitoring well FMW-1. The monitoring well locations for this event are shown on Figure 11. Analysis of the samples was conducted by Method 8260B by AES. The groundwater sampling activities were conducted in accordance with the protocols specified in the EPA Region IV Field Branches Quality System and Technical Procedures in affect at the time.

Prior to beginning groundwater sampling, each monitoring well was opened and allowed to equilibrate prior to collecting groundwater elevation measurements. A water level indicator calibrated to 0.01 feet was used for water level measurements. At each well location, the depth to the water table was measured from the well top of casing and then sounded to determine the height of the water column, and to determine if the well was obstructed. The water level indicator was cleaned with isopropyl alcohol and rinsed with deionized water between monitoring wells. Water level measurements from this event are presented in Table 2, and a potentiometric surface map for the July 2012 sampling event is shown as Figure 6. Groundwater appeared to be mounding beneath the Fashion Care building as it was in 2008 prior to sealing the sump in the rear of the Fashion Care building. It was discovered in 2008 that the mounding was due to a leaking washing machine waste water sump located in the rear of the building. The sump was cleaned and resealed at that time. The sump was no longer suspected to be a source of contamination because the tenant installed a new non-PCE based dry cleaner machine to replace the previous PCE-based machine.

Groundwater sampling was conducted using a peristaltic pump and the USEPA low flow/low stress method. Field measurements of pH, conductivity, dissolved oxygen, oxidation-reduction potential and temperature were collected every five minutes until all parameters stabilized within approximately 10 percent for three consecutive readings. When this stabilization point was reached samples were collected for TCL VOCs using the pipette method.

Three, 1-inch diameter monitoring wells, SB-24, SB-25 and SB-26, are located inside the Fashion Care building. Monitoring well SB-25 purged dry and did not recover; therefore, no sample was collected. Monitoring wells SB-24 and SB-26 purged dry and were sampled when sufficient well recovery occurred. Monitoring well sampling forms from this event are in Appendix C.

Groundwater and surface water samples collected during the July 2012 sampling event were secured in ice-filled coolers and hand delivered to AES for analysis. Laboratory work orders, and chain-of-custody documents, which included information on project name and number, sampler(s) signature, project manager's name, sample matrix, sample identification/station ID number, date and time of sample collection, total number of containers per sample station, requested analyses and number of containers per analyses per sample station, preservatives, and any other pertinent comments for the laboratory, were placed within each cooler for delivery.

The results of the July 2012 groundwater sampling event are discussed in Section 10.3.

On April 28-29, 2014, a second round of water samples was collected to use as a current baseline for the contaminant fate and transport modeling. Ten monitoring wells and three surface water locations were sampled for TCL VOCs. The monitoring wells sampled were FMW-1, FMW-4, FMW-5, FMW-6, FMW-9, FMW-13, FMW-14, FMW-15, FMW-16 and FMW-17. Surface water samples were collected at locations SW-1 through SW-3. Sample locations for this event are shown on Figure 4. The field sampling activities were conducted in general accordance with the protocols specified in the EPA Region IV Field Branches Quality System and Technical Procedures in affect at the time. Monitoring well sampling logs from this event are in Appendix C.

Prior to collecting groundwater samples, a full round of groundwater elevation measurements were collected from all monitoring wells on the Site. These measurements were collected using an electronic water level probe, with measurements collected to the nearest hundredth of a foot. The water table elevation measurements are presented in Table 2. This data was used to construct a potentiometric surface map as shown in Figure 7. Based upon this potentiometric surface map groundwater flows to the south and west, consistent with historical data.

8.4 Surface Water Sampling

A total of twelve surface water sampling events have been conducted since 2008. The laboratory results of the surface water samples collected are described in Section 10.4.

Three surface water sampling locations were established to consistently evaluate the affect of the groundwater plume intersecting Nancy Creek. The locations are shown on Figure 12 and are described as follows:

- SW-1, located upgradient and outside the area where the groundwater plume intersects Nancy Creek;
- SW-2, located downstream of SW-1 and within the area where the groundwater plume intersects Nancy Creek; and
- SW-3, located downstream of SW-2 and within the area of highest impacts where the groundwater plume intersects Nancy Creek.

Eight surface water sampling events were conducted in accordance with EPD's VRP Comment Letter dated December 2, 2010, specifically comments regarding surface water, (Nos. 1-Bullet 4, 2 and 4). The events were conducted in October 2011 during a three week period. The first sequence of four consecutive events was obtained from October 6 through October 9, 2011. The second sequence of four events was taken from October 21 through October 24, 2011.

Surface water flow volume and VOCs were measured in Nancy Creek, downgradient of the Site, at three locations; upstream and two within the groundwater plume boundary. Previous surface water sampling events had not detected VOCs. The sampling and flow gauging was optimized for detection using sequential events at low flow conditions. The sampling effort was intended to definitively examine low flow (drought) surface water concentrations of VOCs resulting from Site groundwater discharging to Nancy Creek. The EPD requested that samples be collected during flow periods that were close to the 7Q10 value of 3 cubic feet per second, provided by EPD for the Site. Measurements were obtained using an electromagnetic flow meter with capability of measuring flow velocity from 0.01 to 20 feet per second. Stream flow during all the sampling events was well below the 7Q10 value. During the first series of sampling, October 6 through October 9, 2011, flow ranged from 0.09 to 0.52 cubic feet per second. During the second series of sampling, October 21 through October 24, 2011, flow ranged from 0.53 to 1.45 cubic feet per second.

No measurable precipitation was reported in the Nancy Creek watershed during the ten days prior to the first sequence, and drought conditions were reported by local weather forecasters. Based on USGS station data, light rain was recorded approximately two days prior to the second sampling sequence, October 21 – 24, and a gradual flow volume decline to dry condition was observed. Flow measurement decline in the second sequence was corroborated by the USGS stream flow data. Declining stream flow during the days after a rain event was expected to provide optimum conditions for detecting groundwater VOCs in Nancy Creek. Laboratory results from these sampling events are discussed in Section 10.4.

In July 2012 another round of surface water samples were collected. Sampling was conducted using a pre-cleaned stream sampler that extended on a pole up to a reach of 25 feet. This was used for safety reasons due to the height of the stream bank on the Fashion Care side of the stream. The samples were collected from mid-depth in the center of the stream. The water sample was then carefully transferred to appropriate sample vials for VOC analysis. Laboratory results from this sampling event are discussed in Section 10.4.

In April 2014 another round of surface water samples were collected. Sampling was conducted using a pre-cleaned stream sampler that extended on a pole up to a reach of 25 feet. The samples were collected from mid-depth in the center of the stream. The water sample was then carefully transferred to appropriate sample vials for VOC analysis. Laboratory results from this sampling event are discussed in Section 10.4.

8.5 Slug Tests

Two slug testing events have been conducted for the Site to assist the fate and transport modeling. Slug-in and slug-out tests were conducted in 2008 on monitoring wells FWM-4 and FMW-5, screened in the upper water bearing zone. The hydraulic conductivity ranged from 0.00011 feet per second (FMW-4, slug-out) to 0.00025 feet per second (FMW-5, slug-out). This data is provided in the revised Contaminant Transport Modeling Report in Appendix G, and in the initial Contaminant Transport Modeling Report presented in the Semiannual Status Report dated December 19, 2014.

Additional slug tests were conducted at the EPD's request in September 2014 to supplement the 2008 data. Slug-in and slug-out tests were conducted on monitoring wells FMW-1, FMW-5 and FMW-9 (screened in the upper water bearing zone) to provide a distribution of aquifer parameters along the flow path of the contaminant plume. Historic slug testing indicated that hydraulic conductivity at the Site ranges from approximately 10 to 27 ft/day. The more recent data indicated a range from 0.45 to 57 ft/day. The data from these slug tests are summarized in Table 2-1 in the revised Contaminant Transport Modeling Report in Appendix G. Data and analyses are for slug tests completed in September of 2014 are also provided in revised Contaminant Transport Modeling Report.

8.6 Vapor Intrusion Assessments

As part of the Type 5 remedy for soil on the Site, soil impacted with VOCs are left in place, capped beneath the concrete slab of the Fashion Care building and the surrounding asphalt. In addition, groundwater impacted with VOCs is present beneath the buildings on the Fashion Care property, the adjacent Georgia-Alabama Commercial Investments, LLC property and the Southern Automatic Company property. The potential for vapor intrusion associated with this distribution of VOCs was conducted for each of these properties. The field work and modeling efforts conducted for vapor pathway evaluation are discussed below. The pathway and receptor evaluations are further discussed in Section 11.0.

Fashion Care Property – Parcel 18-343-13-002

Due to the concentrations of VOCs beneath the Fashion Care building both in soil and groundwater, it was determined that a vapor mitigation system should be installed beneath the building to mitigate this potential exposure pathway, and assessment was conducted to design the system and is described below. This information was previously provided in the Semiannual Status Reports dated July 2, 2014 and December 19, 2014.

On June 4, 2014, Woodard and Curran performed testing to evaluate the potential radius of influence for a sub-slab depressurization system (SSDS). Testing was conducted by drawing a vacuum at previously installed shallow soil injection point IW-7, located near the center of the contaminant source area. The vacuum was induced by connecting a Shop-Vac to the IW-7 PVC riser, with the discharge hose running to the outside of the building. Three monitoring points were installed at distances of 7.5, 15, and 30 feet from IW-7 (Figure 15). The monitoring points were installed by drilling a small diameter hole in the floor, inserting a piece of polyethylene tubing, and sealing around the tubing with modeling clay. A pressure gauge (maximum pressure of 0.2 inches water) was then attached to the end of the tubing.

Once the monitoring points were installed, the pressure test was started by powering on the vacuum. Within five seconds, the pressure readings at both the 7.5 and 15-foot monitoring points reached the maximum value on the gauge. The pressure reading at the 30-foot monitoring point reached the maximum value within one minute. Based on these findings, it was determined that a single vapor extraction point would be sufficient for depressurizing the sub-slab beyond the limits of VOC impacts.

Accordingly, Woodard and Curran installed an SSDS on June 21 and 22, 2014. An extraction point was installed in the vicinity of IW-7 by coring an eight-inch hole through the floor, and removing soil to a total depth of 18 inches below the top of the floor slab. The hole was then backfilled with gravel to the bottom of the floor slab. A two-inch PVC riser protected by sections of steel rebar was placed inside the hole, and the hole was then sealed to the surface with cement. A rubber seal was placed on top of the gravel at the base of the slab to prevent the cement from entering into the gravel vapor sump. The two-inch riser was run to the roof support beams and then horizontally approximately 15 feet to and through a boarded-up window on the western wall of the building. The entire piping system was slightly sloped back towards the vapor sump to allow for condensate to drain back to the subsurface as necessary.

A radon removal fan (RadonAway model RP140) was mounted on the outside of the building, with the final discharge above the roof line. To power the fan, electric conduit was run from a nearby junction box, and the corresponding breaker in the electric panel was tagged to indicate the breaker should not be turned off. A U-tube manometer was mounted on the two-inch riser to provide a visual indication of system operation.

On June 22, 2014, the fan was turned on, and the manometer immediately registered a pressure reading of 0.2 inches water. This pressure reading was confirmed during a site visit 24 hours later to ensure the system was operating properly.

In November 2014, the EPD requested that additional vapor evaluation associated with the portion of the groundwater plume extending beneath the existing Fashion Care building, outside the area of soil impacts above non-residential RRS, be assessed relative to the potential for vapor intrusion. In addition, as part of this evaluation the vacant space on the east side of the building should be evaluated.

On November 19, 2014, Woodard & Curran performed sub-slab soil gas sampling at three locations within the vacant space on the east side of the building to be representative of conditions beneath the building outside of the area of influence of the previously installed vapor mitigation system. Sample locations are shown on Figure 15, and include one location near the front of the building and two locations near the rear of the building.

Samples were obtained by coring through the existing concrete floor slab to a depth of three inches below the concrete. The space between each vapor collection point and the surrounding concrete was sealed. The tightness of the seal was tested by placing a shroud over the sample point, filling the shroud with helium, and testing sub-slab vapors drawn from the sample point for the presence of helium. Polyethylene tubing was used to connect the sample points to laboratory-supplied six-liter SUMMA canisters. After purging the volume of air in the tubing, the canister was opened, and soil gas was collected at a maximum flow rate of 200 ml/minute. Collected soil gas samples were submitted to TestAmerica Laboratories in Knoxville, Tennessee for analysis by USEPA Method TO-15.

The analytical report for the soil gas samples is included in Appendix E. No analytes were detected in any of the three samples, indicating that groundwater impacts present beneath the building do not pose a vapor risk outside of the vapor mitigation system area of influence. Due to the presence of an approved cap over the source material and the discontinued use of PCE at the property, groundwater impacts are predicted to only diminish in the future and the risk associated with the vapor pathway will not increase.

Southern Automatic Company Property – Parcel 18-343-13-005

It was decided that sub-slab vapor samples should be collected from the building on the Southern Automatic Company property and these results used in evaluating the potential for vapor intrusion resulting from the adjacent dry cleaner release. Two sub-slab vapor samples were collected on May 19, 2011 by Atlas Geo-Sampling of Marietta, Georgia. The locations, VS-1 and VS-2, are shown on Figure 16. Sub-slab soil gas samples were obtained by coring through the existing concrete slab to a depth of three inches below the concrete. The space between each vapor collection point and the surrounding concrete was sealed. The tightness of the seal was tested by placing a shroud over the sample point, filling the shroud with helium, and testing sub-slab vapors drawn from the sample point for the presence of helium. Polyethylene tubing was used to connect the sample points to laboratory-supplied six-liter SUMMA canisters. After purging the volume of air in the tubing, the canister was opened, and soil gas was collected at a maximum flow rate of 200 ml/minute. Collected soil gas samples were submitted to H&P Mobile Geochemistry, Inc. in Carlsbad, California for analysis by USEPA Method TO-15. The laboratory results are provided in Appendix E. PCE was detected in both samples, and TCE was detected in sample VS-1, as shown in Table 7.

The J&E convection/diffusion model as executed in Excel spread sheet format and distributed by USEPA, Version 3.1 (2004) was run using the sub-slab data for this parcel to evaluate the risk of vapor intrusion and the results provided in the Semiannual Status Report dated December 2, 2011. Results from the model indicated an individual and cumulative human health risk below the HSRA standard of 10^{-5} cancer risk. The Hazard Quotient of 1 was not exceeded. Accordingly, based upon these results, it was confirmed that no vapor mitigation requirements were necessary for this parcel.

Asl Limited Partnership Property – Parcel 18-333-02-023

Vapor modeling using the J&E Vapor Model (1991) was conducted for the Asl Limited Partnership property and the modeling results provided in the Semiannual Status report dated June 2, 2011. The modeling was performed using the most recent round of groundwater data at the time, collected in May and June of 2010 and presented in the CAP. The results from the J&E model were used to evaluate the vapor intrusion pathway for the property.

The J&E model for the parcel was also run using only those constituents impacting groundwater as a result of the release of PCE from the Fashion Care Site, and not from the release of petroleum from the USTs on the Georgia-Alabama Commercial Investments, LLC property (parcel 18-343-13-001). None of the COI from the Site are present in soil on this parcel; therefore, only groundwater impacts were used as input data into J&E model. The results of the J&E model indicated that the dry cleaner constituents present in groundwater did not pose a vapor intrusion risk above the HSRA standard of 10^{-5} incremental cancer risk per constituent (Rules for Hazardous Waste Management, Chapter 391-3-19-.07 (10) (d)); however, the cumulative risk for multiple constituents did present a vapor intrusion potential above the HSRA standard of 10^{-5} incremental cancer risk. The Hazard Quotient of 1 was not exceeded. Accordingly, based upon the J&E model results, vapor mitigation had to be considered for this property.

The J&E convection/diffusion model as executed in Excel spread sheet format and distributed by USEPA, Version 3.1 (2004) was rerun for this parcel to evaluate the cumulative risk of vapor intrusion and the results provided in the Semiannual Status Report dated December 2, 2011. Modeling for this undeveloped, wooded parcel using groundwater water data obtained from monitoring wells FMW-5, FMW-6, FMW-11 (March 2010) and MW-14 (September 2008). This groundwater data was used to calculate VOC groundwater concentrations where a hypothetical structure would encounter vapor intrusion at a future date on the property. The area encompassed by these wells fairly represented a potential development area from a structure similar to the gas station located on the Georgia-Alabama Commercial Investments property. This area also emphasized the portion of the groundwater plume with significant PCE and TCE concentrations. The conclusion for this revised scenario for the parcel was the incremental cancer risk of 10^{-5} incremental cancer risk per constituent was exceeded. Accordingly, it was confirmed vapor mitigation must be considered for this property.

Georgia-Alabama Commercial Investments, LLC Property – Parcel 18-343-13-001

Vapor modeling using the J&E Vapor Model (1991) was conducted for the Georgia-Alabama Commercial Investments, LLC property and the modeling results provided in the Semiannual Status report dated June 2, 2011. The modeling was performed using the most recent round of groundwater data at the time, collected in May and June of 2010 and presented in the CAP. The results from the J&E model were used to evaluate the vapor intrusion pathway for the property.
The J&E model for the parcel was run using only those constituents impacting groundwater as a result of the release of tetrachloroethene (PCE) from the Fashion Care Site, and not from the release of petroleum from the USTs on this parcel. None of the COI from the Site are present in soil on this parcel; therefore, only groundwater impacts were used as input data into J&E. The results of the J&E indicated that the dry cleaner constituents present in groundwater did not pose a vapor intrusion risk above the HSRA standard (Rules for Hazardous Waste Management, Chapter 391-3-19-.07 (10)(d)) of 10^{-5} incremental cancer risk per constituent or cumulative risk for all constituents; nor did it exceed a Hazard Quotient of 1. Accordingly, based upon the J&E results, no vapor mitigation requirements were necessary for this parcel.

The J&E convection/diffusion model as executed in Excel spread sheet format and distributed by USEPA, Version 3.1 (2004) was rerun for this parcel to evaluate the cumulative risk of vapor intrusion and the results provided in the Semiannual Status Report dated December 2, 2011. The modeling was performed using the groundwater data collected March, 2010, from monitoring wells FMW-1 and MW-11. VOC concentrations from monitoring wells FMW-1 and MW-11 were averaged in order to provide a representative groundwater concentration scenario for this location. Several monitoring wells surrounding the gas station at the time had free product (petroleum) and did not provide representative (or any) chlorinated compound data. Results from the vapor intrusion analysis indicated a cumulative human health risk below the HSRA standard of 10^{-5} incremental cancer risk per constituent or cumulative risk for all constituents; nor did it exceed a Hazard Quotient of 1. Accordingly, based upon these results, it was again confirmed that no vapor mitigation requirements were necessary for this parcel.

9.0 EXTENT OF SOIL, GROUNDWATER, SURFACE WATER, SEDIMENT AND VAPOR IMPACTS

COI from the release of PCE from the Fashion Care dry cleaner impacted, or had the potential to impact soil and groundwater in the area of the release, and surface water and sediment in nearby Nancy Creek. Also, soil vapor originating from impacts to soil and groundwater had the potential to impact receptors. Each of these media were assessed under the requirements of the HSRA Program initially, and completed under the VRP. The extent of impacts identified in each media is presented below.

9.1 Risk Reduction Standards for Soil and Groundwater, and Surface Water Standards

During the course of the HSRA, and later VRP investigation, HSRA residential (Type 1), non-residential (Type 3 and 4) and Type 5 (utility and construction worker protection) RRS for soil and groundwater were derived and approved by the EPD. The RRS are presented in the various data tables in this report, and derivations are provided in Appendix H. These standards were used to determine the limits of impacts from the dry cleaner release in soil, groundwater and sediment, and are presented in data tables for these media. These standards were then used to determine where potential exposure pathways existed or had the potential to exist, and what receptors were or could be impacted, and if the exposure pathway was complete and required corrective measures to protect human health or the environment.

Georgia In-Stream Water Quality Standards (ISWQS) were identified for evaluating surface water data collected from Nancy Creek.

9.2 Extent of COI in Soil

The estimated horizontal extent of soil impacts relative to VRP soil delineation criteria is presented on Figure 3. This figure is based upon the soil samples collected from the treated area following the soil remediation event conducted in 2008, and from soil samples collected by Epic outside the soil remediation event area. Soil impacts above the VRP delineation criteria used for this Site are limited to the Fashion Care and Southern Automatic Company properties. Shown on Figure 3 are the horizontal limits of non-residential RRS and Type 5 RRS exceedances. Again, the areas of exceedances are within the to the Fashion Care and Southern Automatic Company properties. Specifically, soil impacts above Type 5 RRS are contained beneath the Fashion Care concrete building slab, and the non-residential RRS exceedances that extend beyond the building slab are contained beneath the surrounding asphalt paving just outside the building. Impacts extend to the water table approximately 12 feet bgs. Soil analytical data upon which Figure 3 is based is presented in Table 3.

9.3 Extent of COI in Groundwater

Twenty monitoring wells were installed in the upper water bearing zone during the course of the HSRA and VRP assessments; FMW-1 through FMW-17, and SB-24, SB-25 and SB-26. In addition up to twenty monitoring wells installed as part of the EZ-Serve UST investigation and remediation on the Georgia-Alabama Commercial Investment and Fashion Care properties have been used to collect groundwater samples to delineate the extent of COI associated with the dry cleaner release. Groundwater samples have been collected in 2008, 2010, 2012, 2013 and 2014 during the HSRA Program and VRP assessments. The groundwater data from these events are presented in Table 4 and the laboratory report is provided in Appendix E.

April 2014 - Detected constituents are presented in Table 4, compared to HSRA Types 1/3 RRS and Type 5 RRS established for the site. The April 2014 data is also presented on Figure 4. The results from this round of groundwater samples is compared to historical rounds of groundwater data collected on the Site in Table 4. The current round of groundwater data was compared to the last round of sample data in 2012, and to historical data back to the initial sampling at each location. The results of these comparisons are as follows, starting with the most downgradient wells and working back toward the source of groundwater contamination at the Fashion Care building:

- Downgradient wells (furthest from source); FMW-10, FMW-13, FMW-14, FMW-15, FMW-16 and FMW-17: All constituents detected in these wells in 2012 have decreased in concentration in 2014 (FMW-10 was not sampled in April 2014). Constituents are all below standard detection limits in FMW-10, FMW-15, FMW-16 and FMW-17. All constituents in FMW-13 are below detection limits with the exception of tetrachloroethene (PCE), which has reduced in concentration since 2012, and remains above a Type 1/3 RRS but below a Type 5 RRS. All constituents in FMW-14 are below standard detection limits with the exception of cis-1,2-dichloroethene, which has reduced in concentration since 2012, and remains below all RRS. Graphs showing the concentrations versus time in monitoring wells FMW-13, FMW-14, FMW-15 and FMW-16 are shown as Figures 17a through 17d.

- Downgradient wells (nearer to source); FMW-4, FMW-5, FMW-6 and FMW-9: All constituents detected in these wells are relatively stable or are decreasing in concentration. Expected fluctuations in concentrations are observed in constituents undergoing the degradation process. Detected constituents in monitoring wells FMW-4 and FMW-6 are fluctuating slightly but are within the same order of magnitude in concentration. Constituents in monitoring well FMW-5 are all below detection limits, and are showing an overall decrease in concentration since sampling began at this location. Detected constituents in monitoring well FMW-9 are generally fluctuating within the same order of magnitude, with degradation constituents slightly rising in concentration. One new constituent was detected in FMW-4; 1,1,2-trichloroethane. This constituent was not seen in any other monitoring wells. Graphs showing the concentrations versus time in these monitoring wells are shown as Figures 17e through 17h.

- Peripheral and upgradient wells; FMW-1, FMW-2, FMW-3, FMW-7, FMW-8, FMW-11 and FMW-12: All of these peripheral and upgradient wells are below detection limits for all constituents or are decreasing in concentration since their initial sampling. Only FMW-1 was sampled in April 2014. A graph showing the concentrations versus time in monitoring well FMW-1 is shown as Figure 17i.

In summary, an evaluation of the overall current data set for groundwater indicates at this time the plume is shrinking at the downgradient edge, and remaining generally consistent in concentrations nearest the source as the parent constituent, PCE, progresses through the degradation process. This is likely the result of the removal of the original source of constituents; the PCE dry cleaning machine; the sealing of the lint sump at the rear of the building; the chemical oxidation treatment of soil in the source area conducted in March 2009 and maintaining an impervious cap over the remaining soil impacts.

9.4 Extent of COI in Surface Water

Twelve rounds of surface water samples have been collected from sample locations, SW-1, SW-2 and SW-3, between September 2008 and April of 2014 and the results are presented in Table 5. No Site COI have been detected above laboratory PQLs in any of the samples collected.

A low detection of chloromethane, 2 µg/L, was observed at the upstream sampling location (SW-1) on October 8, 2011and was attributed to an upstream source. Acetone was detected in all of the samples collected in four rounds of sampling conducted in October 2011. Because acetone was detected in the upstream sample during each event, it was also determined to originate from an up-stream source not associated with the Site. Notably, the trend in the acetone data appears to corroborate the expectation that declining stream flow subsequent to a rain event produces the optimum conditions for detecting VOCs discharging to surface water from groundwater.

In conclusion, surface water sampling conducted during both extreme low flow conditions and during post-rain groundwater discharge into Nancy Creek at the Site, did not detect VOCs associated with the Site during any of the sampling events. Details regarding the surface water sampling, including summary tables for flow and VOC concentrations, flow calculations have been presented in the VRP CAP, and the Semiannual Status Reports dated June 2, 2011, December 2, 2011, December 3, 2012 and July 2, 2014. Laboratory data reports are in Appendix E.

9.5 Extent of COI in Sediment

Sediment samples were collected by Winter Environmental at three locations shown on Figure 12 in May 2010; SD-3 upstream of the intersecting groundwater plume, SD-2 within the area where the groundwater plume intersects the creek, and SD-1 downstream of the area where the groundwater plume intersects the creek. Based upon the sediment samples collected in 2010, sediments are not being impacted above standard laboratory PQLs for COI as a result of the

groundwater plume discharging to Nancy Creek. Table 6 presents the sediment analytical data. Laboratory data reports are in Appendix E.

9.6 Extent of COI in Soil Vapor

Dry cleaner COI were assumed to be present in soil vapor in the area of soil impacts beneath the Fashion Care property building and asphalt area. Soil vapor sampling was conducted beneath the building slab, above the area of COI impacts to groundwater, on the Southern Automatic Company property. PCE and TCE were identified in the soil vapor samples collected. COI in soil vapors were assumed to be present in areas of the ASL Limited Partners and Georgia-Alabama Commercial Investments properties where dry cleaner COI were present in groundwater. This data and these assumptions were used to evaluate the potential exposure pathway to indoor air on each of these properties.

10.0 EVALUATION OF EXPOSURE PATHWAYS AND POTENTIAL RECEPTORS

An evaluation of potential exposure pathways and receptors was conducted for the Site as required for the VRP. A CSM of the exposure pathways for the Site is discussed in Section 6.0, and is shown as Figure 9. The exposure pathways evaluated include:

- Potential exposure to COI in soil;
- Potential exposure to COI in groundwater;
- Potential exposure to COI in surface water;
- Potential exposure to COI in sediment; and
- Potential exposure to vapor-phase COI from impacted soil and groundwater.

It was concluded that the following exposure pathways were incomplete:

- Exposure to COI in soil due to the impacted soil area being covered by asphalt and concrete;
- Exposure to COI in groundwater because there are no groundwater users in the area overlying the groundwater plume;
- Exposure to COI in surface water because ten rounds of surface water samples have not detected COI, and fate and transport modeling predicts surface water will not be impacted by the groundwater plume above ISWQS; and
- Exposure to COI in sediment because sediments samples collected at the Site did not detect COI.

The exposure pathways and potential receptors associated with each of these media are discussed below.

10.1 Soil Exposure Pathways and Potential Receptors

It was determined that the exposure pathway for direct contact by human or environmental receptors with COI identified in soil on the Fashion Care and Southern Automatic Company property was currently incomplete due to the concrete building slab and surrounding asphalt that caps the area of contamination. It was determined that there was a potential exposure pathway for future subsurface utility and construction worker activities that could be conducted within the boundaries where COI in soil exceed site-specific Type 5 RRS. It was also determined that there

was a potential risk to groundwater from the infiltration and leaching of COI from precipitation and surface water runoff through the impacted soil to groundwater if corrective measures were not implemented to mitigate this potential future pathway.

Due to the risks associated with this exposure pathway, corrective measures have been implemented to mitigate these potential exposure pathways. The corrective measures are described in Section 11 below.

10.2 Groundwater Exposure Pathways and Potential Receptors

It was determined that the direct exposure for groundwater use was not required to be evaluated for this Site, as the Site was not listed on the HSI for groundwater. However, a water supply survey was conducted for the Site. A detailed windshield survey was conducted by Winter Environmental within a 1-mile radius of the Site. No residences or businesses were identified using groundwater wells for potable, industrial or irrigation use. All potable water users appeared to be connected to the local water system through a water meter. In addition, the USGS groundwater well database was searched within a 1-mile radius of the Site and no wells were identified.

A May 19, 2004 EPD internal memorandum regarding a Field inspection of the Site was reviewed. The EPD Field Inspection conducted a well survey within a 3-mile radius of the Site and did not identify any groundwater use. It also stated that the EPD inquired with a DeKalb County building inspector, who stated that all residences in the area were on the DeKalb County water system. To update this information, Winter Environmental contacted DeKalb County who confirmed that all residences and businesses in the area remain on the DeKalb County water system. In addition, there are no public surface water intakes within 3 miles downgradient of the Site. Therefore, there are no complete or potential exposure pathways through groundwater or surface water use. The May 19, 2004 EPD internal memorandum and the USGS Well Inventory results are in Appendix A.

Indirect exposure pathways and receptors were evaluated relative to COI impacts in groundwater. The pathways examined included exposure by subsurface utility and construction worker activities, vapor exposure pathways originating from impacted groundwater, and exposure of surface waters (Nancy Creek) as a receiving water for impacted groundwater.
There is impacted groundwater on the Fashion Care and ASL Limited Partnership parcels above a Type 1, 3 and 4 RRS and areas where groundwater concentrations are currently or have the potential to be above Type 5 RRS established for utility and construction workers, as shown on Figure 4. Risks associated with exposure pathways on the Fashion Care property were addressed through corrective measures described in Section 11 below. Following a review of the historical depth to groundwater, it was determined in consultation with the EPD that the depth to groundwater on the ASL Limited Partnership parcel was deep enough that it did not pose a risk associated with a construction worker scenario.

The potential exposure pathway for a utility worker on the ASL Limited Partnership parcel was also examined. The depth to groundwater on this parcel was also deep enough that it did not

pose a risk associated with the average utility worker scenario. There are currently two existing sanitary sewer lines on the parcel that were also examined relative to potential exposure to impacted groundwater. As shown on Figure 18, the sanitary sewer lines do not currently lie in an area of the plume that is above a utility worker RRS; however, a scenario associated with a hypothetical future migration of the plume at concentrations above these RRS into this area was evaluated relative to utility worker exposure. Both sanitary sewer lines were sounded at manhole locations and the depths evaluated relative to the depth to groundwater in the areas of potential concern.

The base of the northernmost sanitary sewer line was found to be at a maximum depth of approximately 6.65 feet bgs. Compared to the depth to groundwater in the area of the plume of 11.3 feet bgs (based on FMW-5), it was determined in consultation with the EPD that this line does not present a risk to utility workers based upon depth of the line alone.

The southernmost sanitary sewer line was found to be at a depth of 14.5 feet bgs in the manhole to the west and 18 feet bgs in the manhole to the east near North Peachtree Road. Compared to the depth to groundwater in the area of the plume of 11.3 feet bgs (based on FMW-5), it was determined utility workers working on this line could reach impacted groundwater; however, based on the necessary depth for an excavation to reach this line and the PPE required by a utility worker to conduct work associated with the sanitary wastewater, an exposure pathway relative to impacted groundwater would not be complete. This evaluation was presented in the Semiannual Status Report dated June 3, 2013.

Impacted groundwater on the Fashion Care and ASL Limited Partnership parcels also required the evaluation of the potential for exposure through the vapor intrusion pathway. Again, risks associated with the exposure pathway on the Fashion Care property were addressed through corrective measures described in Section 11 below. Upon examination of the ASL Limited Partnership parcel relative to hindrances to potential development, the potential to develop enclosed structures on the portion of the parcel currently impacted and potentially impacted in the future by affected groundwater (approximately 2.61 acres) is severely limited, if not infeasible, due to a number of factors unrelated to the Fashion Care release. The factors include: FEMA Flood Zone Restrictions, stream buffer requirements, sewer easements in place, and the presence of hydric soil and potential wetlands. Details associated with these factors were provided to the EPD for consideration in the Semiannual Status Report dated June 3, 2013. The EPD, in correspondence dated November 13, 2013 (Appendix A) concurred that development was unlikely for this portion of the parcel, minimizing the potential vapor exposure pathway. The monitoring of this potential exposure pathway on the ASL Limited Partnership parcel was address through the use of UEC institutional controls included with the Fashion Care property and described in Section 11 below.

The exposure of surface waters (Nancy Creek) as a receiving water for impacted groundwater was evaluated through twelve rounds of surface water sampling and fate and transport modeling of the dry cleaner release, with Nancy Creek as the endpoint receptor. This is discussed in Section 11.3 below.

10.3 Surface Water Exposure Pathways and Potential Receptors

The exposure of surface waters (Nancy Creek) as a receiving water for impacted groundwater was evaluated through ten rounds of surface water sampling and fate and transport modeling of the dry cleaner release, with Nancy Creek as the endpoint receptor. Twelve rounds of surface water samples have been collected from sample locations, SW-1, SW-2 and SW-3, between September 2008 and April of 2014 and no Site COI have been detected above laboratory PQLs in any of the samples collected. This data support the conclusion that there is not currently a completed exposure pathways or impacted receptors as a result of the groundwater plume entering Nancy Creek.

Fate and transport modeling of the dry cleaner release, discussed in Section 13.1 below and presented in the revised Contaminant Transport Modeling Report in Appendix G, also has indicated that the groundwater plume is not predicted to be a potential completed pathway for exposure. This will be confirmed though a groundwater monitoring program and recalibration of the fate and transport model using the additional data collected.

10.4 Sediment Exposure Pathways and Potential Receptors

Sediment samples were collected and analyzed for TCL VOCs by Winter Environmental at three locations shown on Figure 12 in May 2010; SD-3, SD-2 and SD-1, as part of a pathway and receptor evaluation. No COI were detected above analytical PQL. Based upon these results it was determined that this exposure pathway is not complete.

10.5 Vapor Exposure Pathways and Potential Receptors

The potential exposure pathways and receptors for the vapor-phase COI from impacted soil and groundwater was evaluated for the four parcels comprising the Site. The results are summarized as follows:

- Fashion Care Property (Parcel 18-343-13-002): Due to the concentrations of VOCs beneath the Fashion Care building both in soil and groundwater, it was assumed that the vapor pathway was potentially complete. Therefore, because direct exposure corrective measures for these media called for these impacts to remain in place through the use of engineering and institutional controls, it was necessary for a vapor mitigation system to be installed beneath the building to mitigate the potential vapor exposure pathway. A SSDS system was installed and is operating beneath the Fashion Care building. Operation and maintenance of the system is address in the UEC for the property.

- Southern Automatic Company Property (Parcel 18-343-13-005): The vapor exposure pathways for structures on this parcel were evaluated through the use of sub-slab vapor samples and modeling the sample results using the J&E convection/diffusion model distributed by USEPA, Version 3.1 (2004). Results from the model indicated an individual and cumulative human health risk below the HSRA standard of 10^{-5} cancer

risk. The Hazard Quotient of 1 was not exceeded. Accordingly, based upon these results, it was confirmed that a vapor exposure pathway does not exist for this property.

- Asl Limited Partnership Property (Parcel 18-333-02-023): The vapor exposure pathway for this parcel was evaluated due to underlying groundwater impacts through the use of J&E Vapor Model (1991) and the J&E convection/diffusion model distributed by USEPA, Version 3.1 (2004). The results of the J&E Vapor Model (1991) indicated groundwater did not pose a vapor intrusion risk above the HSRA standard of 10^{-5} incremental cancer risk per constituent; however, the cumulative risk for multiple constituents did present a potential vapor intrusion risk above the HSRA standard of 10^{-5} cancer risk. The Hazard Quotient of 1 was not exceeded. The J&E convection/diffusion model distributed by USEPA, Version 3.1 (2004) was also run, and the incremental cancer risk of 10^{-5} per constituent was exceeded.

  Accordingly, based upon the results of these models, it was determined that that a potential vapor exposure pathway exists for this property. Because development of this parcel with enclosed structures is unlikely where groundwater impacts/vapor exposure risk exist, the monitoring of this potential exposure pathway on the parcel was addressed through the use of UEC institutional controls included with the Fashion Care property

- Georgia-Alabama Commercial Investments, LLC Property (Parcel 18-343-13-001): The vapor exposure pathway for this parcel was evaluated due to underlying groundwater impacts through the use of J&E Vapor Model (1991) and the J&E convection/diffusion model distributed by USEPA, Version 3.1 (2004). The results of the J&E Vapor Model (1991) indicated groundwater did not pose a vapor intrusion risk above the HSRA standard of 10^{-5} incremental cancer risk per constituent or the cumulative risk for multiple constituents. The Hazard Quotient of 1 was also not exceeded.

- The results of the J&E convection/diffusion model distributed by USEPA, Version 3.1 (2004) indicated an incremental cancer risk per constituent and a cumulative risk below the HSRA standard of 10^{-5}; nor did it exceed the Hazard Quotient of 1. Accordingly, based upon these results, it was confirmed that a vapor exposure pathway does not exist for this property.

11.0 VRP CORRECTIVE ACTIONS

11.1 Engineering Controls

Engineering controls were used as corrective action measures to mitigate exposure pathways for soil impacted by dry cleaner COI above non-residential and Type 5 RRS on the Fashion Care and Southern Automatic Company properties. Engineering controls were also used to mitigate the potential exposure pathway from soil vapor containing COI entering into the existing Fashion Care property building.

11.1.1 Soil Cap

Soil impacted above non-residential and Type 5 RRS on the Fashion Care and Southern Automatic Company properties is contained under the Fashion Care building slab and abutting asphalt paving. These materials have been designated as capping for these impacted soil mitigating the direct exposure pathway, and preventing infiltration and leaching of COI from precipitation and surface water runoff through the impacted soil to groundwater. Maintenance and recordkeeping associated with the cap is assured through the use of the institutional controls described below.

11.1.2 Vapor Mitigation System

The potential exposure pathway from soil vapor containing COI from impacted soil entering into the existing Fashion Care property building has been mitigated through the installation of an active SSDS.

An SSDS was installed on June 21 and 22, 2014. As shown on Figure 15, a vapor extraction sump was installed through the concrete slab in the vicinity of IW-7. The extraction point was connected through PVC piping to a radon removal fan (RadonAway model RP140) mounted on the outside of the building, with the final discharge above the roof line. To power the fan, electric conduit was run from a nearby junction box, and the corresponding breaker in the electric panel was tagged to indicate the breaker should not be turned off. A U-tube manometer was mounted on the two-inch riser to provide a visual indication of system operation.

On June 22, 2014, the fan was turned on and the manometer immediately registered a pressure reading of 0.2 inches water. This pressure reading was confirmed during a site visit 24 hours later to ensure the system was operating properly. Maintenance and recordkeeping associated with the SSDS is assured through the use of institutional controls described below.

The vapor assessment, design and installation of the SSDS were presented in Semiannual Status Reports dated July 2, 2014 and December 19, 2014.

11.2 Institutional Controls

Institutional controls through the use of UECs have been used to ensure the continued mitigation of corrective measures implemented on the following properties:

- Fashion Care property, 2211 Savoy Drive, Chamblee, Georgia (Parcel 18-343-13-002) – Soil, groundwater and potential soil vapor impacts were identified on this parcel. A UEC was implemented on this property to ensure the maintenance and recordkeeping associated with the corrective action implemented for soil and soil vapor impacts. This includes the soil cap and SSDS, the protection of future utility and construction workers that may work within the area of soil impacted with COI, and the proper handling and disposal of soil and groundwater impacted with COI that may be removed during such activities. A Site Use, Activity, And Monitoring Evaluation Form must be submitted annually to the EPD that documents continued implementation and maintenance of corrective measures implemented, and adherence to other UEC requirements.

  In addition, the Fashion Care UEC Site Use, Activity, And Monitoring Evaluation Form also ensures the monitoring of potential development on the Asl Limited Partnership property (Parcel 18-343-13-005) in the area of groundwater impacts. The use of this institutional control is further described below.

  The UEC for Fashion Care property was executed by the Trust on April 1, 2014. On May 27, 2014, the UEC was signed by the Director of the EPD. The UEC was recorded by the Clerk of the Superior Court of DeKalb County on June 5, 2014. Final details associated with the UEC were presented in Semiannual Status Report dated July 2, 2014. A copy of the UEC is in Appendix I.

- Southern Automatic Company property, 4306 North Peachtree Road, Chamblee, Georgia (Parcel 18-343-13-005) – Soil and groundwater impacts were identified on this parcel. A UEC was implemented on this property to ensure the maintenance and recordkeeping associated required corrective action for soil. This includes the soil cap, the protection of future utility and construction workers that may work within the area of soil impacted with COI, and the proper handling and disposal of soil and groundwater impacted with COI that may be removed during such activities. A Site Use, Activity, And Monitoring Evaluation Form must be submitted annually to the EPD that documents continued implementation and maintenance of corrective measures implemented, and adherence to other UEC requirements.

  The UEC for Southern Automatic Company property was executed by the owner on July 24, 2012. On May 27, 2014, the UEC was signed by the Director of the EPD. The UEC was recorded by the Clerk of the Superior Court of DeKalb County on June 5, 2014. Final details associated with the UEC were presented in Semiannual Status Report dated July 2, 2014. A copy of the UEC is in Appendix I.

- Asl Limited Partnership property, no street address and immediately to the east bordering Nancy Creek (Parcel 18-333-02-023) – Groundwater and the potential for soil vapor impacts were identified on this parcel. It was determined that it was highly unlikely that the property could be developed with enclosed structures due to development constraints. The EPD concurred in correspondence dated November 13, 2012, but required that this be monitored through the use of the Fashion Care UEC and Site Use, Activity, And Monitoring Evaluation Form that is submitted annually to the EPD. Details associated with this evaluation are presented in Semiannual Status Report dated June 2, 2013. A copy of the Fashion Care UEC is in Appendix I.

11.3 Parcels Not Requiring Engineering or Institutional Controls

No corrective measures were required for the Georgia-Alabama Commercial Investments, LLC property (Parcel 18-343-13-001) following the determination that the potential for soil vapor impacts from groundwater impacted with COI from the dry cleaner release did not pose a vapor intrusion risk to enclosed structures on the property. Details associated with this evaluation are presented in Semiannual Status Report dated December 2, 2011.

12.0 GROUNDWATER AND SURFACE WATER MONITORING PROGRAM

12.1 Fate and Transport of COI Modeling

Contaminant transport modeling was conducted to evaluate the potential for additional exposure pathways to arise, and for known exposure pathways to become complete at levels that could impact potential receptors above regulatory limits. The known receptors are the portions of the properties that have been impacted by the migration of the groundwater contaminant plume, and Nancy Creek that receives discharge from the plume.

Contaminant transport was evaluated using the following steps:

- Modeling of the transfer of soil contamination to the groundwater flow system by modeling the transfer of contaminant mass to the groundwater system with a soil flushing calculation.

- Groundwater modeling of flow and contaminant transport for the Site. Groundwater flow was simulated using MODFLOW 2000 (Harbaugh et al, 2000), modeling three dimensional groundwater flow.

- The computer code used to simulate contaminant transport was MT3DMS (Zheng and Wang, 1999). MT3DMS is a code for simulating transport of contaminants in three dimensions and uses the outputs from MODFLOW to calculate simulated transport in groundwater.

- Contaminant transport modeling was conducted in three distinct steps. The first step was to model distribution of total dissolved VOCs in the groundwater. The second step was to model the anticipated maximum concentration of PCE in the future, as this compound is the most prevalent compound at the Site with the lowest ISWQS. The third step was to evaluate the likely relative concentrations of the daughter products of PCE decay at the Site at the time of the maximum future PCE concentration, and then compare these concentrations to the appropriate environmental standards. In order to understand the maximum expected concentration of each of the daughter products at the time of maximum PCE concentration, a simulation using BIOCHLOR22 was performed.

- In order to evaluate the potential for PCE and or its degradation products to be present in Nancy Creek above ISWQS, a groundwater to surface water mixing calculation was performed. The concentrations for PCE, TCE, DCE and VC in groundwater predicted in the previous modeled sections were then blended based on modeled groundwater discharge and the volume of flow in Nancy Creek at the Site at 7Q10 conditions.

Based on the modeling exercises completed, the plume will likely remain stable or decrease over the next 60 years. The plume generally appears to migrate down the axis of the Nancy Creek valley on the northern side of the creek. Generally, the overall plume distribution appears to be monitored adequately by the existing well network. Given these observations, the following conclusions/recommendations are made:

- The predicted plume footprint does not expand substantially beyond the existing monitoring well network;
- As the source area is depleted, the center of maximum plume concentration will slowly migrate and continue to degrade as it migrates toward Nancy Creek;
- The maximum modeled concentration of PCE is predicted to discharge to Nancy Creek approximately 41 years after the source remediation effort conducted in 2008;
- Mixing calculations for the predicted maximum concentrations of PCE and daughter products in Nancy Creek indicate that ISWQS will not be exceeded; and
- No other receptors for the groundwater plume are present within the existing or predicted footprint of the VOC plume at the Site.

A detailed revised Contaminant Transport Modeling Report describing the contaminant transport modeling and findings is in Appendix G. A previous Contaminant Transport Modeling Report was provided to EPD in the Semiannual Status Report dated December 19, 2014.

12.2 Summary of Proposed Groundwater and Surface Water Monitoring Program

Based upon the results of the contaminant transport modeling with the current dataset and surface water sampling conducted to date, there will be no completed exposure pathways resulting from the migration and continued degradation of the groundwater plume. In order to confirm the predicted exposure trends for the Site, it is proposed that a limited groundwater and surface water sampling plan be initiated and the data acquired be input into the contaminant transport model to confirm the current results.

The outline of the monitoring plan would be to sample the following network of existing monitoring wells and surface water locations for two consecutive annual sampling events. The locations are shown on Figure 1 in the Contaminant Transport Modeling Report.

- Monitoring Wells: FMW-4, FMW-6, FMW-9, FMW-12, and FMW-16
- Surface Water Locations: SW-1, SW-2 and SW-3.

Samples would be analyzed for the site-specific VOC list previously approved under the VRP. At the conclusion of the second sampling event, the data acquired would be input into the contaminant transport model to confirm the current results. Annual monitoring reports would be submitted for each of these events. The second annual monitoring report would also present the results of the modeling with recommendations based upon the results.

The VRP Monitoring Plan is presented in Appendix J for EPD review and approval.

It is noted that should a detection of COI be found in surface water during the implementation of the VRP Monitoring Plan, the Surface Water Corrective Action Plan (Appendix B) presented in the Semiannual Status Report dated July 2, 2014, and approved by the EPD, will be implemented.

13.0 ENTRY OF PARCEL # 18-343-13-002 INTO THE GEORGIA BROWNFIELD PROGRAM

On October 31, 2014 the Fashion Care property, Tax Parcel # 18-343-13-002 (address 2211 Savoy Drive, Chamblee, DeKalb County, Georgia), was entered into the Georgia EPD Brownfield Program by the prospective purchaser, Charles and Wendy Pero. To enter the property into the Brownfield Program, a Prospective Purchaser Compliance Status Report (PPCSR (Appendix F)) was prepared entirely using data and information from documents submitted under the HSRA Program and VRP. A Limitation of Liability letter (LoL) was obtained from the EPD on December 3, 2014 and is provided in Appendix A. The LoL requires the new owner to adhere to the following conditions, as written:

1. The Peros must submit a notice of purchase of the above referenced property by no later than ten (10) days after closing to EPD. Please include documentation of the prohibition of the use of tetrachloroethene on the Property.

2. The Pero's will give any responsible party for groundwater contamination and/or EPD access to the subject property to perform groundwater sampling and to implement an EPD approved corrective action plan or work plan for groundwater.

3. The Pero's will ensure that the requirements of the Uniform Environmental Covenant (UEC) are abided by and that the required engineering controls are properly operated and maintained.

4. In the event that the Pero's wish to sell the subject property, the Pero's must provide fifteen (15) days notice to EPD of its intent to offer for sale the subject property or any portion thereof. All documents offering the subject property or portion of the subject property for sale will include a copy of the PPCSR, the UEC, any other documents required by the UEC or the Act, and a copy of this letter. EPD shall be provided with the name, address, phone number, and contact person for the new property owner(s) within ten (10) days of sale.

5. For the purpose of determining liability for continuing or future releases of regulated substances upon or from the properties, the background or baseline concentration for any and all releases will be based on the information provided in the PPCSR pursuant to Section 12-8-208(d) of the Act.

The Trust will continue to execute the requirements for the Site under the VRP until completion.

Of note, during the sale and acquisition process for the property it was determined that the previous approximate property boundaries depicted for this parcel in all HSRA Program and VRP documents were incorrect. Figure 19 shows the proper approximate property boundaries. The legal description used in all previous submittals is correct. The property boundaries in all figures presented in this VRP CSR have been corrected.

14.0 SUMMARY OF COMPLIANCE STATUS

This Voluntary Remediation Program Compliance Status Report for the Fashion Care Site, HSI No. 10786, located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, is submitted on behalf of the John F. Rowan, Sr. Item IV Trust (Trust), the previous owner of the property and responsible party under the VRP.

In addition to the Fashion Care property, the properties that have been impacted by the release of dry cleaner COI include:

- Parcel 18-343-13-005, 4306 North Peachtree Road, Chamblee, Georgia is immediately to the west, and owned by Mr. H.A. Rowan of Southern Automatic Company.

- Parcel 18-333-02-023, no street address, undeveloped and immediately to the east and owned by Asl Limited Partnership of Boca Raton, Florida.

- Parcel 18-343-13-001, 4308 North Peachtree Road, Chamblee, Georgia is immediately to the east, and owned by Mr. Marvin Hewatt of Georgia-Alabama Commercial Investments, LLC.

Each of these properties was originally entered into the VRP through the submittal of the CAP on July 9, 2010.

During the course of the addressing the release of dry cleaner constituents under the HSRA Program and VRP, the Trust (owner at the time) required the current dry cleaner tenant to discontinue the use of PCE in their operations and replaced the PCE dry cleaning machine with a non-chlorinated solvent based dry cleaning machine. No PCE remains on the Site and the last suspected source of release, a leaking sanitary sewer collection sump that was part of the original building construction in the rear of the building, has been twice cleaned and resealed. It was suspected that the tenant, based upon their housekeeping practices and samples collected from the sump, were improperly disposing of PCE impacted wastewater through the sump system.

Each of these properties was also found to be impacted by a release of petroleum from the petroleum UST systems located on the Georgia-Alabama Commercial Investments, LLC property (UST Facility I.D. No. 900341*1; EZ-Serve Site). This petroleum release underwent remediation through the EPD UST Program and received a “no further action required” status. The remediation system was not designed to address the groundwater plume, and the plume of petroleum constituents has comingled with the dissolved-phase chlorinated solvent plume originating from the Fashion Care property.

As part of the assessment of the release under the VRP, the horizontal and vertical extent of the soil impacts were delineated. Figure 3 shows the extent of impacted soil relative to Type 3 and 4 RRS and Type 5 RRS. The soil remedy implemented under the VRP is a Type 5 solution using engineering and institutional controls to mitigate the potential exposure pathway. The existing concrete building slab and surrounding asphalt paving provides a cap for the impacted soil, and

the maintenance of the cap, and health and safety requirements associated with future construction or utility work/worker exposure is assured through the use of UECs that have been established for the Fashion Care and Southern Automatic Company properties.

The horizontal and vertical extent of groundwater impacts from the dry cleaner release have been completed under the VRP. The most recent set of groundwater data collected from the Site was in April 2014 and is depicted on Figure 4 relative to Type 1 and 3 RRS and Type 5 RRS. The plume extends southwest from the Fashion Care property source area toward, and intersecting with, Nancy Creek bordering the Asl Limited Partnership property. Impacted groundwater is present on portions of the Fashion Care, Southern Automatic Company, Asl Limited Partnership and the Georgia-Alabama Commercial Investments properties. The plume was determined to be confined vertically to the water table aquifer (upper water bearing zone) which is perched upon a dense dry silt layer that is approximately ten feet thick at the Site.

Sediment samples collected from Nancy Creek on the Site did not detect any of the COI; therefore, sediment is in compliance with the VRP.

Twelve rounds of surface water samples have been collected from Nancy Creek since 2008 along the length of the groundwater plumes intersection with the creek. The COI have not been identified in any of the samples collected to date. The potential receptor for groundwater impacts is Nancy Creek. Due to the depth to groundwater across the Site, on average 10 feet or more below grade, direct contact by potential construction or utility workers was determined not to be a potential completed pathway for exposure. Surface water sampling and fate and transport modeling of the release have indicated that the groundwater plume is not predicted to be a potential completed pathway for exposure. Surface water is currently in compliance with the VRP and ISWQS. Future compliance will be evaluated through the VRP Monitoring Plan.

Soil and groundwater impacts were also determined to present a potential completed exposure pathway for soil vapor relative to current or future enclosed structures within the footprint of these impacts, which are currently present on the Fashion Care and Asl Limited Partnership properties. As a result, a SSDS was installed and is maintained beneath the existing building on the Fashion Care property to mitigate this exposure pathway. The assurance of the continued operation of the SSDS on the Fashion Care property is through the use of a UEC and annual submittal to the EPD of the Site Use, Activity, and Monitoring Evaluation Form. The vapor pathway is in compliance with the VRP on the Fashion Care property.

The Asl Limited Partnership property currently has no structures within the current or predicted footprint of groundwater impacts. It was also determined that the construction of enclosed structures in this area is unlikely due to constraints to development. As a result, a UEC requiring vapor mitigation of structures was determined unnecessary, and potential future construction is monitored through the annual submittal to EPD of the Fashion Care UEC Site Use, Activity, and Monitoring Evaluation Form. Though this measure, the vapor pathway is in compliance with the VRP on the Asl Limited Partnership property.

All activities outlined in the July 9, 2010 VRP CAP, and other activities identified as necessary during the CAP implementation, have been completed. Therefore, this VRP CSR and VRP Groundwater Monitoring Plan have been submitted for review and approval by the EPD to remove the Site from the Georgia HSI.

TABLES

Table 1
Constituents of Interest
Fashion Care/Executive Care VRP Site (HSI #10786)
2211 Savoy Drive, Chamblee, Georgia

Drycleaner Related Constituents
Tetrachloroethene (PCE)
cis-1, 2-Dichloroethene
trans-1, 2-Dichloroethene
1, 1-Dichloroethene (1,1-DCE)
Trichloroethene (TCE)
Vinyl Chloride (VC)

NON-COI IDENTIFIED

Petroleum Related Constituents
1, 1-Dichloroethane
1,2-Dibromoethane (EDB)
2-Butanone (MEK)
2-Hexanone
4-Methyl-2-pentanone (MIBK)
Benzene
Toluene
Ethylbenzene
Total Xylenes
Cyclohexane
Isopropylbenzene
Methylcyclohexane
MTBE
Styrene
Fumigant-Insecticide
1,2 Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Chlorobenzene
Laboratory Artifact and/or Naturally Ocurring
Acetone

Table 2

Water Table Elevation Data

Fashion Care/Executive Care VRP Site (HSI #10786)

2211 Savoy Drive, Chamblee, Georgia

Well ID	Top of Casing Elevation (ft msl)	September 4, 2008				December 1-3, 2008				March 19, 2010				April 7, 2010				December 10, 2012				April 1, 2013			
		Depth to Free-Phase Petroleum	Depth to Groundwater (ft bgs)	Free-Product Thickness (ft)	Groundwater Elevation (ft msl)	Depth to Free-Phase Petroleum	Depth to Groundwater (ft bgs)	Free-Product Thickness (ft)	Groundwater Elevation (ft msl)	Depth to Free-Phase Petroleum	Depth to Groundwater (ft bgs)	Free-Product Thickness (ft)	Groundwater Elevation (ft msl)	Depth to Free-Phase Petroleum	Depth to Groundwater (ft bgs)	Free-Product Thickness (ft)	Groundwater Elevation (ft msl)	Depth to Free-Phase Petroleum	Depth to Groundwater (ft bgs)	Free-Product Thickness (ft)	Groundwater Elevation (ft msl)	Depth to Free-Phase Petroleum	Depth to Groundwater (ft bgs)	Free-Product Thickness (ft)	Groundwater Elevation (ft msl)
FMW-1	98.92	-	15.05	-	83.87	-	14.91	-	84.01	-	11.10	-	87.82				98.92		15.10		83.82		13.05		85.87
FMW-2	97.07	-	13.27	-	83.80	-	13.09	-	83.98	-	9.15	-	87.92				97.07		13.43		83.64		11.08		85.99
FMW-3	96.96	-	13.34	-	83.62	-	13.35	-	83.61	-	10.54	-	86.42				96.96		13.26		83.70		11.36		85.60
FMW-4	97.11	-	13.59	-	83.52	-	13.41	-	83.70	-	10.95	-	86.16				97.11		13.68		83.43		11.75		85.36
FMW-5	95.40	-	12.85	-	82.55	-	12.56	-	82.84	-	11.69	-	83.71				95.40		12.70		82.70		11.30		84.10
FMW-6	93.12	-	10.68	-	82.44	-	10.39	-	82.73	-	9.65	-	83.47				93.12		10.55		82.57		9.85		83.27
FMW-7	96.81					-	13.32	-	83.49	-	11.20	-	85.61				96.81		13.50		83.31		11.75		85.06
FMW-8	97.40					-	12.45	-	84.95	-	10.42	-	86.98				97.40		13.80		83.60		11.55		85.85
FMW-9	94.07					-	11.44	-	82.63	-	10.89	-	83.18	-	9.08	-	84.99		11.35		82.72		11.02		83.05
FMW-10	92.85					-	10.24	-	82.61	-	9.36	-	83.49				92.85		10.36		82.49		9.45		83.40
FMW-11	94.40					-	11.65	-	82.75	-	11.03	-	83.37				94.40		11.51		82.89		11.10		83.30
FMW-12	95.90		NI							-	12.55	-	83.35	-	12.63	-	83.27		12.60		83.30		12.58		83.32
FMW-13	92.05									-	8.28	-	83.77				92.05		9.56		82.49		8.45		83.60
FMW-14	92.03						NI												10.74		81.29		9.46		82.57
FMW-15	92.10										NI				NI				10.76		81.34		8.92		83.18
FMW-16	91.32																		10.50		80.82		9.38		81.94
FMW-17	91.90																		NI				9.00		82.90
SB-24	98.56	-	14.50	-	84.06	-	NT	-	-	-	11.11	-	87.45				98.56		14.71		83.85		8.32		90.24
SB-25	98.50	-	dry	-	dry	-	14.38	-	84.12	-	11.40	-	87.10				98.50		14.83		83.67		12.44		86.06
SB-26	98.36	-	13.17	-	85.19	-	13.34	-	85.02	-	11.50	-	86.86				98.36		12.70		85.66		10.43		87.93
MW-1	98.51	13.95	15.80	1.85	82.71	13.65	16.09	2.44	82.42	-	9.91	-	88.60				98.51								
MW-2R	98.38	-	13.83	-	84.55	-	13.50	-	84.88	-	9.06	-	89.32				98.38								
MW-3	98.56	-	13.92	-	84.64	13.68	13.69	0.01	84.87	-	9.30	-	89.26				98.56		Abandoned by UST Program				Abandoned by UST Program		
MW-4R	96.72	-	12.62	-	84.10	-	12.45	-	84.27	-	11.15	-	85.57				96.72								
MW-8	96.62	-	13.54	-	83.08	13.30	13.31	0.01	83.31	-	11.98	-	84.64				96.62								
MW-9R	97.11	13.85	13.88	0.03	83.23	-	13.65	-	83.46	-	11.75	-	85.36				97.11								
MW-10R	Converted to Recovery Well					Converted to Recovery Well				Converted to Recovery Well				Converted to Recovery Well				Converted to Recovery Well				Converted to Recovery Well			
MW-11	98.77	-	14.95	-	83.82	-	14.71	-	84.06	-	11.50	-	87.27				98.77								
MW-12	97.52	-	13.64	-	83.88	-	13.43	-	84.09	-	12.75	-	84.77				97.52								
MW-13	96.49	-	13.92	-	82.57	-	13.74	-	82.75	-	12.80	-	83.69				96.49		Abandoned by UST Program				Abandoned by UST Program		
MW-14	96.59	-	14.08	-	82.51	-	13.81	-	82.78	-	12.75	-	83.84				96.59								
MW-15	98.91	-	14.45	-	84.46	-	14.21	-	84.70	-	9.97	-	88.94				98.91								
MW-16	98.54	-	13.75	-	84.79	-	13.54	-	85.00	-	9.15	-	89.39				98.54								
MW-17	Converted to Recovery Well					Converted to Recovery Well				Converted to Recovery Well				Converted to Recovery Well				Converted to Recovery Well				Converted to Recovery Well			
MW-18	96.68	-	12.61	-	84.07	-	12.41	-	84.27	-	11.10	-	85.58				96.68								
MW-19	97.31	-	13.21	-	84.10	-	12.96	-	84.35	-	11.55	-	85.76				97.31								
MW-20	97.86	-	13.62	-	84.24	-	13.44	-	84.42	-	11.02	-	86.84				97.86		Abandoned by UST Program				Abandoned by UST Program		
MW-21	99.00	14.55	14.64	0.09	84.36	14.30	14.34	0.04	84.66	-	10.12	-	88.88				99.00								
MW-22	99.48	-	14.89	-	84.59	-	14.64	-	84.84	-	10.24	-	89.24				99.48								
MW-23D	96.13	-	13.00	-	83.13	-	12.79	-	83.34	-	11.12	-	85.01				96.13								
SG-1	86.84									-	3.65	-	83.19	-	3.72	-	83.12				86.84				86.84
SG-2	86.38									-	3.87	-	82.51	-	3.94	-	82.44				86.38				86.38
SW9	NA		NI				NI															NA	NA	NA	82.37
SW11	NA										NI				NI				NI			NA	NA	NA	82.64
SW14	NA																					NA	NA	NA	81.67

NOTES:

ft msl, feet above mean sea level.

ft toc, feet below top of casing.

MW-5, MW-6 and MW-7 do not exist

-, denotes no free-phase petroleum was found in the

NT, measurement not taken

Table 3

Soil Analytical Data - Detected Constituents

Fashion Care/Executive Care VRP Site (HSI #10786)

2211 Savoy Drive, Chamblee, Georgia

Constituent	Sample Event								Fashion Care Data											
	Location	CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		HSRA Type 1 RRS	UST Soil TL*	HSRA Type 5 RRS		B-5	B-6	B-7	B-7	B-8	B-9	B-10	B-10	B-10	B-11
	Depth (feet bgs)										2	2	2	10	5	5	2	10	15	2
	Date Sampled		0-2'	>2'	0-2'	>2'			Construction Worker	Utility Worker	04/17/07	04/17/07	04/17/07	08/18/06	08/18/06	08/18/06	04/18/07	08/18/06	08/18/06	04/18/07
Volatile Organic Compounds (VOCs) - mg/kg																				
Fashion Care HSRA Site Constituents of Interest																				
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	0.7	-	592	4,229	<0.0029	<0.0032	<0.0032	<0.003	<0.0034	<0.0038	<0.0033	<0.0031	<0.003	<0.0025
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	7	-	3,097	NA	<0.0029	<0.0032	<0.0032	<0.003	0.0087	0.08	<0.0033	<0.0031	0.015	0.020
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	0.5	-	214	61	<0.0029	<0.0032	<0.0032	<0.003	<0.0034	<0.0038	<0.0033	<0.0031	<0.003	<0.0025
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	10	-	231	1,648	<0.0029	<0.0032	<0.0032	<0.003	<0.0034	<0.0038	<0.0033	<0.0031	<0.003	0.006
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	0.5	-	1,206	345	<0.0029	<0.0032	<0.0032	<0.003	<0.0034	<0.0038	<0.0033	<0.0031	<0.003	<0.0025
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	0.2	-	77.5	27	<0.0058	<0.0065	<0.0063	<0.006	0.017	<0.0075	<0.0066	<0.0062	<0.0061	<0.0049
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE and Naturally Ocurring or Laboratory Artifacts																				
Acetone		67-64-1	400	400	94.6	94.6	400	-	145,576	1,039,832	0.170	0.25	0.25	<0.06	<0.068	<0.075	<0.066	<0.062	<0.061	<0.049
1, 1-Dichloroethane		75-34-3	400	400	NC	NC		-	13,037	3,725	<0.0029	<0.0032	<0.0032	<0.003	<0.0034	<0.0038	<0.0033	<0.0031	<0.003	<0.0025
Benzene		71-43-2	PRC	PRC	PRC	PRC	PRC	0.02	PRC	PRC	<0.0029	<0.0032	<0.0032	**0.072**	0.014	**0.120**	<0.0033	<0.0031	<0.003	**0.029**
Toluene		108-88-3	PRC	PRC	PRC	PRC	PRC	135	PRC	PRC	<0.0029	<0.0032	<0.0032	0.004	<0.0034	0.0073	<0.0033	<0.0031	<0.003	<0.0025
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC	PRC	28	PRC	PRC	<0.0029	<0.0032	<0.0032	0.160	<0.0034	0.0081	<0.0033	<0.0031	<0.003	<0.0025
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC	PRC	700	PRC	PRC	<0.0058	<0.0065	<0.0063	0.012	<0.0068	0.0211	<0.0066	<0.0062	<0.0061	<0.0049
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC	PRC	-	PRC	PRC	<0.0029	<0.0032	<0.0032	0.034	0.0068	0.047	<0.0033	<0.0031	<0.003	0.032
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC	PRC	-	PRC	PRC	<0.0029	<0.0032	<0.0032	0.027	<0.0034	0.017	<0.0033	<0.0031	<0.003	<0.0025
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	PRC	PRC	PRC	PRC	-	PRC	PRC	<0.0029	<0.0032	<0.0032	<0.003	0.033	<0.0038	<0.0033	<0.0031	<0.003	<0.0025

Constituent	Sample Event								Fashion Care Data													
	Location	CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		HSRA Type 1 RRS	UST Soil TL*	HSRA Type 5 RRS		B-12	B-12	B-12	B-15	B-15	B-15	B-16	B-16	B-16	B-17	B-17	B-17
	Depth (feet bgs)										2	10	15	2	5	7	2	5	7	2	4	6
	Date Sampled		0-2'	>2'	0-2'	>2'			Construction Worker	Utility Worker	04/18/07	08/18/06	08/18/06	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07
Volatile Organic Compounds (VOCs) - mg/kg																						
Fashion Care HSRA Site Constituents of Interest																						
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	0.7	-	592	4,229	<0.0032	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	7	-	3,097	NA	0.0045	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	0.5	-	214	61	<0.0032	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	10	-	231	1,648	<0.0032	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	0.5	-	1,206	345	<0.0032	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	0.2	-	77.5	27	<0.0064	<0.0083	<0.0068	<0.0078	<0.0073	<0.0064	<0.0059	<0.0061	<0.0078	<0.0066	<0.0061	<0.0072
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE and Naturally Ocurring or Laboratory Artifacts																						
1, 1-Dichloroethane		75-34-3	400	400	NC	NC		-	13,037	3,725	<0.0032	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
Acetone		67-64-1	400	400	94.6	94.6	400	-	145,576	1,039,832	<0.064	<0.083	<0.068	<0.078	<0.073	<0.064	<0.059	<0.061	<0.078	<0.066	<0.061	<0.072
Benzene		71-43-2	PRC	PRC	PRC	PRC	PRC	0.02	PRC	PRC	**0.028**	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	**0.053**	**0.031**	**0.095**	<0.0033	<0.003	<0.0036
Toluene		108-88-3	PRC	PRC	PRC	PRC	PRC	135	PRC	PRC	0.0048	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC	PRC	28	PRC	PRC	<0.0032	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	0.0035	0.013	<0.0033	<0.003	<0.0036
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC	PRC	700	PRC	PRC	0.0118	<0.0083	<0.0068	<0.0078	<0.0073	<0.0064	<0.0059	<0.0061	0.022	<0.0066	<0.0061	<0.0072
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC	PRC	-	PRC	PRC	0.036	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	0.034	0.016	0.040	<0.0033	<0.003	<0.0036
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC	PRC	-	PRC	PRC	<0.0032	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	0.0077	<0.0033	<0.003	<0.0036
MTBE		1634-04-4	PRC	PRC	PRC	PRC	PRC	-	PRC	PRC	<0.0032	<0.0042	0.066	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036

NOTES:

BOLD	Exceeds HSRA Type 3 RRS
BOLD	Exceeds HSRA Type 3 and 4 RRS
BOLD	Exceeds HSRA Type 3, 4 and 5 RRS
BOLD	Exceeds UST Program Soil Threshold Values

* The applicable UST Threshold Level is Table B, Lower Groundwater Pollution Susceptibility Area, ≤ 500 feet to a Surface Water Body.

NC Type 4 RRS not calculated

PRC Petroleum relalated constituents

** RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS in Condition 8.

Table 3

Soil Analytical Data - Detected Constituents

Fashion Care/Executive Care VRP Site (HSI #10786)

2211 Savoy Drive, Chamblee, Georgia

Constituent	Sample Event	CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		HSRA Type 1 RRS	UST Soil TL*	HSRA Type 5 RRS		Fashion Care Data													
	Location										B-18	B-18	B-18	B-20	B-20	B-20	B-21	B-21	B-21	B-22	B-22	B-22	B-23	B-23
	Depth (feet bgs)										2	5	10	2	5	7	2	5	7	2	5	10	2	5
	Date Sampled		0-2'	>2'	0-2'	>2'	RRS	TL*	Construction Worker	Utility Worker	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	4/17/07	4/17/07	4/17/07	04/18/07	04/18/07
Volatile Organic Compounds (VOCs) - mg/kg																								
Fashion Care HSRA Site Constituents of Interest																								
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	0.7	-	592	4,229	<0.0024	<0.0034	<0.0036	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	<0.0033	<0.0034	<0.0027	<0.0034	<0.0034	<0.0042
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	7	-	3,097	NA	<0.0024	<0.0034	<0.0036	0.063	1.4	1.0	0.027	0.0092	0.043	0.120	<0.0027	<0.0034	0.340	0.310
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	0.5	-	214	61	<0.0024	<0.0034	<0.0036	0.0091	<0.0033	<0.0033	0.0049	<0.0038	0.190	0.033	<0.0027	<0.0034	0.021	<0.0042
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	10	-	231	1,648	<0.0024	<0.0034	<0.0036	<0.0031	0.016	0.021	<0.0032	<0.0038	<0.0033	<0.0034	<0.0027	<0.0034	<0.0034	<0.0042
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	0.5	-	1,206	345	<0.0024	<0.0034	<0.0036	0.0052	<0.0033	<0.0033	<0.0032	<0.0038	0.0047	0.055	<0.0027	<0.0034	0.011	0.0052
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	0.2	-	77.5	27	<0.0048	<0.0068	<0.0073	<0.0062	0.053	0.029	<0.0063	<0.0077	<0.0066	<0.0067	<0.0054	<0.0068	0.011	0.050
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE and Naturally Ocurring or Laboratory Artifacts																								
1, 1-Dichloroethane		75-34-3	400	400	NC	NC		-	13,037	3,725	<0.0024	<0.0034	<0.0036	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	<0.0033	<0.0034	<0.0027	<0.0034	<0.0034	<0.0042
Acetone		67-64-1	400	400	94.6	94.6	400	-	145,576	1,039,832	<0.0024	<0.068	<0.073	<0.062	<0.065	<0.066	<0.063	<0.077	<0.066	<0.067	<0.054	<0.068	<0.071	<0.085
Benzene		71-43-2	PRC	PRC	PRC	PRC	PRC	0.02	PRC	PRC	**0.055**	**0.370**	**0.490**	<0.0031	**0.022**	0.020	0.0034	<0.0038	0.013	<0.0034	0.010	**0.230**	<0.0034	<0.0042
Toluene		108-88-3	PRC	PRC	PRC	PRC	PRC	135	PRC	PRC	0.011	0.290	0.700	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	0.0044	<0.0034	<0.0027	0.0076	<0.0034	<0.0042
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC	PRC	28	PRC	PRC	<0.0024	0.065	2.6	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	<0.0033	<0.0034	<0.0027	0.610	<0.0034	<0.0042
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC	PRC	700	PRC	PRC	<0.0048	0.264	13.9	<0.0062	<0.0065	<0.0066	<0.0063	<0.0077	0.0206	<0.0067	<0.0054	0.942	<0.0071	<0.0085
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC	PRC	-	PRC	PRC	<0.0024	<0.0034	0.790	<0.0031	0.680	0.077	<0.0032	<0.0038	0.015	<0.0034	0.0088	1.3	0.005	0.0058
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC	PRC	-	PRC	PRC	<0.0024	0.004	0.320	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	<0.0033	<0.0034	<0.0027	0.084	<0.0034	<0.0042
MTBE		1634-04-4	PRC	PRC	PRC	PRC	PRC	-	PRC	PRC	<0.0024	<0.0034	<0.0036	<0.0031	<0.0033	<0.0033	0.030	0.017	0.013	<0.0034	<0.0027	<0.0034	<0.0034	<0.0042

Constituent	Sample Event	CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		HSRA Type 1 RRS	UST Soil TL*	HSRA Type 5 RRS		Fashion Care Data									
	Location										B-25	B-25	B-25	B-26	B-26	B-26	FMW-4	FMW-4	FMW-4	SB-27
	Depth (feet bgs)										2	5	10	2	5	10	0-2	4-8	11-13	0-2
	Date Sampled		0-2'	>2'	0-2'	>2'	RRS	TL*	Construction Worker	Utility Worker	4/17/07	4/17/07	4/17/07	4/17/07	4/17/07	4/17/07	9/4/08	9/4/08	9/4/08	9/4/08
Volatile Organic Compounds (VOCs) - mg/kg																				
Fashion Care HSRA Site Constituents of Interest																				
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	0.7	-	592	4,229	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	<0.0027	<0.0035	<0.15	<0.0026
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	7	-	3,097	NA	0.040	0.022	0.087	<0.0031	0.110	0.035	0.041	0.12	1.7	0.068J
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	0.5	-	214	61	<0.0039	<0.0031	<0.0036	0.021	<0.0027	<0.0031	0.0087	<0.0035	0.05J	**18.0**
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	10	-	231	1,648	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	<0.0027	<0.0035	<0.15	<0.0026
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	0.5	-	1,206	345	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	0.0075	<0.0035	<0.15	0.12J
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	0.2	-	77.5	27	<0.0078	<0.0063	<0.0072	<0.0062	<0.0054	<0.0061	0.008	0.016	0.096J	<0.0026
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE and Naturally Ocurring or Laboratory Artifacts																				
1, 1-Dichloroethane		75-34-3	400	400	NC	NC		-	13,037	3,725	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	<0.0027	<0.0035	<0.15	<0.0026
Acetone		67-64-1	400	400	94.6	94.6	400	-	145,576	1,039,832	<0.078	<0.063	<0.072	0.140	<0.054	<0.061	0.039	<0.035	<1.5	0.17
Benzene		71-43-2	PRC	PRC	PRC	PRC	PRC	0.02	PRC	PRC	0.009	0.018	**0.080**	<0.0031	0.012	0.0032	0.0016	0.0083	**0.75**	<0.00052
Toluene		108-88-3	PRC	PRC	PRC	PRC	PRC	135	PRC	PRC	<0.0039	<0.0031	0.0042	<0.0031	<0.0027	<0.0031	<0.00053	0.0056	1.5	0.0026
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC	PRC	28	PRC	PRC	<0.0039	0.0056	0.016	<0.0031	0.007	<0.0031	<0.00053	0.001	0.33	<0.00052
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC	PRC	700	PRC	PRC	<0.0078	<0.0063	<0.0072	<0.0062	<0.0054	<0.0061	<0.00053	0.0039	1.15	<0.00052
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC	PRC	-	PRC	PRC	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	0.036	<0.0027	<0.0035	<0.15	<0.0026
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC	PRC	-	PRC	PRC	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	<0.0027	<0.0035	<0.15	<0.0026
MTBE		1634-04-4	PRC	PRC	PRC	PRC	PRC	-	PRC	PRC	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	NA	NA	NA	NA

NOTES:

BOLD	Exceeds HSRA Type 3 RRS
BOLD	Exceeds HSRA Type 3 and 4 RRS
BOLD	Exceeds HSRA Type 3, 4 and 5 RRS
BOLD	Exceeds UST Program Soil Threshold Values

* The applicable UST Threshold Level is Table B, Lower Groundwater Pollution Susceptibility Area, ≤ 500 feet to a Surface Water Body.

NC Type 4 RRS not calculated

PRC Petroleum relalated constituents

** RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS in Condition 8.

Table 3

Soil Analytical Data - Detected Constituents

Fashion Care/Executive Care VRP Site (HSI #10786)

2211 Savoy Drive, Chamblee, Georgia

Constituent	Sample Event										Fashion Care Data - Soil Confirmation Samples																
	Location	CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		HSRA Type 1 RRS	UST Soil TL*	HSRA Type 5 RRS		SB-28	SB-28	SB-28	SB-29	SB-29	SB-29	SB-30	SB-30	SB-30	SB-31	SB-31	SB-31	SB-32	SB-32	SB-32	SB-33	SB-33
	Depth (feet bgs)										0-2	4-6	8-10	0-2	4-6	8-10	0-2	4.5-6.5	8.5-10.5	0-2	4-6	7.5-9.5	0-2	3.5-5.5	6-8	0-2	4-6
	Date Sampled		0-2'	>2'	0-2'	>2'			Construction Worker	Utility Worker	05/08/09	05/08/09	05/08/09	5/8/09	5/8/09	05/08/09	05/08/09	5/8/09	5/8/09	05/08/09	05/08/09	5/8/09	5/8/09	5/8/09	5/8/09	5/8/09	5/8/09
Volatile Organic Compounds (VOCs) - mg/kg																											
Fashion Care HSRA Site Constituents of Interest																											
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	0.7	-	592	4,229	<0.19	<0.19	<0.17	<0.005	<0.005	<0.005	<0.2	<0.18	<0.18	<0.22	<0.18	<0.14	<0.15	<0.16	<0.19	<0.16	<0.14
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	7	-	3,097	NA	0.50	**73.0**	**10.0**	0.0140	0.0910	0.290	0.130	2.80	6.20	0.20	1.60	0.190	<0.15	0.270	2.50	0.130	0.590
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	0.5	-	214	61	**0.980**	**52.0**	**37.0**	0.0031	0.0220	0.0023	**2.30**	**6.70**	**1.50**	**3.40**	**4.50**	0.30	**15.0**	**1400.0**	**3800.0**	**2300.0**	**100.0**
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	10	-	231	1,648	<0.19	0.830	0.0640	<0.005	0.0016	0.0067	<0.2	<0.18	0.0410	<0.22	<0.18	<0.14	<0.15	<0.16	0.110	<0.16	<0.14
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	0.5	-	1,206	345	0.20	**15.0**	**4.0**	<0.005	0.0021	<0.005	0.160	**3.40**	**2.30**	0.270	**1.70**	0.350	<0.15	**3.40**	**30.0**	**4.40**	**1.70**
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	0.2	-	77.5	27	<0.19	<0.19	<0.17	<0.005	<0.005	0.0670	<0.2	<0.18	<0.2	<0.22	<0.18	<0.14	<0.15	<0.16	<0.19	<0.16	<0.14
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE and Naturally Ocurring or Laboratory Artifacts																											
1, 1-Dichloroethane		75-34-3	400	400	NC	NC		-	13,037	3,725	<0.19	<0.19	<0.17	<0.005	<0.005	<0.005	<0.2	<0.18	<0.18	<0.22	<0.18	<0.14	<0.15	<0.16	<0.19	<0.16	<0.14
Acetone		67-64-1	400	400	94.6	94.6	400	-	145,576	1,039,832	<1.9	<1.9	<1.7	0.520	0.0690	0.0450	<2	<1.8	<1.8	<2.2	<1.8	<1.4	<1.5	<1.6	<1.9	<1.6	<1.4
Benzene		71-43-2	PRC	PRC	PRC	PRC	PRC	0.02	PRC	PRC	<0.19	<0.19	<0.17	0.0180	0.0046	**0.0570**	<0.2	<0.18	**0.07**	<0.22	<0.18	<0.14	<0.15	<0.16	**0.034**	<0.16	<0.14
Toluene		108-88-3	PRC	PRC	PRC	PRC	PRC	135	PRC	PRC	<0.19	<0.19	<0.17	0.0049	0.0081	0.0370	<0.2	<0.18	0.21	<0.22	<0.18	<0.14	<0.15	0.026	0.210	<0.16	<0.14
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC	PRC	28	PRC	PRC	<0.19	<0.19	<0.17	0.0011	0.0019	0.0190	<0.2	<0.18	0.051	<0.22	<0.18	<0.14	<0.15	<0.16	0.30	<0.16	<0.14
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC	PRC	700	PRC	PRC	<0.390	<0.390	0.0460	<0.01	0.00073	0.070	<0.4	<0.36	0.147	<0.43	<0.36	<0.27	<0.31	<0.31	0.710	<0.32	<0.28
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC	PRC	-	PRC	PRC	<0.19	<0.19	<0.17	<0.005	0.0077	0.0210	<0.2	<0.18	<0.18	<0.22	<0.18	<0.14	<0.15	<0.16	<0.19	<0.16	<0.14
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC	PRC	-	PRC	PRC	<0.19	<0.19	<0.17	<0.005	<0.005	0.0011	<0.2	<0.18	<0.18	<0.22	<0.18	<0.14	<0.15	<0.16	<0.19	<0.16	<0.14
MTBE		1634-04-4	PRC	PRC	PRC	PRC	PRC	-	PRC	PRC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Constituent	Sample Event										Fashion Care Data - Soil Confirmation Samples								
	Location	CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		HSRA Type 1 RRS	UST Soil TL*	HSRA Type 5 RRS		SB-34	SB-34	SB-34	SB-35	SB-35	SB-35	SB-36	SB-36	SB-36
	Depth (feet bgs)										0-2	2.5-4.5	5-7	0-2	2.5-4.5	5-7	0-2	3-5	6-8
	Date Sampled		0-2'	>2'	0-2'	>2'			Construction Worker	Utility Worker	05/18/09	05/18/09	05/18/09	5/18/09	5/18/09	5/18/09	5/18/09	5/18/09	5/18/09
Volatile Organic Compounds (VOCs) - mg/kg																			
Fashion Care HSRA Site Constituents of Interest																			
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	0.7	-	592	4,229	<0.058	<0.048	<0.046	<0.051	<0.046	<0.051	<0.048	<0.049	<0.047
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	7	-	3,097	NA	<0.058	<0.048	0.31	<0.051	1.5	0.14	0.26	1.7	0.32
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	0.5	-	214	61	0.24	**2.6**	0.39	0.27	**1.0**	0.12	**0.59**	<0.049	0.11
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	10	-	231	1,648	<0.058	<0.048	<0.046	<0.051	<0.046	<0.051	<0.048	<0.049	<0.047
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	0.5	-	1,206	345	<0.058	0.053	0.26	<0.051	0.15	<0.051	0.11	<0.049	<0.047
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	0.2	-	77.5	27	<0.058	<0.048	<0.046	<0.051	<0.46	<0.051	<0.048	<0.049	<0.047
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE and Naturally Ocurring or Laboratory Artifacts																			
1, 1-Dichloroethane		75-34-3	400	400	NC	NC		-	13,037	3,725	<0.058	<0.048	<0.046	<0.051	<0.046	<0.051	<0.048	<0.049	<0.047
Acetone		67-64-1	400	400	94.6	94.6	400	-	145,576	1,039,832	<0.58	<0.48	<0.46	<0.51	<0.46	<0.51	<0.48	<0.49	<0.47
Benzene		71-43-2	PRC	PRC	PRC	PRC	PRC	0.02	PRC	PRC	<0.058	<0.048	<0.046	<0.051	**0.053**	<0.051	<0.048	**0.061**	<0.047
Toluene		108-88-3	PRC	PRC	PRC	PRC	PRC	135	PRC	PRC	<0.058	<0.048	<0.046	<0.051	<0.046	<0.051	<0.048	0.035	0.036
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC	PRC	28	PRC	PRC	<0.058	<0.048	<0.046	<0.051	<0.046	<0.051	<0.048	<0.049	0.027
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC	PRC	700	PRC	PRC	<0.12	<0.097	<0.092	<0.051	<0.046	<0.1	<0.095	<0.098	<0.093
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC	PRC	-	PRC	PRC	<0.058	<0.048	<0.046	<0.1	<0.092	<0.051	<0.048	<0.049	<0.047
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC	PRC	-	PRC	PRC	<0.058	<0.048	<0.046	<0.051	<0.046	<0.051	<0.048	<0.049	<0.047
MTBE		1634-04-4	PRC	PRC	PRC	PRC	PRC	-	PRC	PRC	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

BOLD	Exceeds HSRA Type 3 RRS
BOLD	Exceeds HSRA Type 3 and 4 RRS
BOLD	Exceeds HSRA Type 3, 4 and 5 RRS
BOLD	Exceeds UST Program Soil Threshold Values

* The applicable UST Threshold Level is Table B, Lower Groundwater Pollution Susceptibility Area, ≤ 500 feet to a Surface Water Body.

NC Type 4 RRS not calculated

PRC Petroleum relalated constituents

** RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS in Condition 8.

Table 4
Groundwater Analytical Data - Detected Constituents
Fashion Care/Executive Care VRP Site (HSI #10786)
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		FMW-1	FMW-1[3]	FMW-1	DUP 1 (FMW-1)	FMW-1	DUP 1 (FMW-1)	FMW-2	FMW-2[3]	FMW-2	FMW-3	FMW-3[3]	FMW-3	FMW-4	FMW-4[3]	FMW-4	FMW-4	FWM-5	FWM-5	FMW-5	FMW-5	FMW-6	FMW-6	FMW-6	FMW-6
	Date Sampled			Construction Worker	Utility Worker	9/8/08	3/8/10	7/11/12	7/11/12	4/28/14	4/28/14	9/8/08	3/8/10	7/11/12	9/8/08	3/9/10	7/12/12	9/8/08	3/8/10	7/12/12	4/29/14	9/5/08	3/11/10	7/11/12	4/29/14	9/5/08	3/11/10	7/11/12	4/29/14
Volatile Organic Compounds																													
Fashion Care HSRA Site Constituents of Interest																													
1,1-Dichloroethene		75-35-4	0.007	0.577	4.12	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.5	<0.5	<0.001	<0.005	<0.005	**0.061**	**0.038**	<0.5	**0.027**	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005
1,1,2-Trichloroethane		79-00-5	0.005							<0.005	<0.005										**0.014**				<0.005				<0.005
cis-1, 2-Dichloroethene		156-59-2	0.53	12.8	91.3	0.0027	0.024	0.18	0.16	0.049	0.046	0.11	0.16J	<0.5	0.0048	<0.005	<0.005	**52.0**	**63.0**	**75**	**40**	0.1	0.039	0.059	<0.005	0.18	0.18	**0.87**	**0.92**
Tetrachloroethene (PCE)		127-18-4	0.005**	0.286	0.082	**0.0086**	**0.006**	**0.0097**	**0.0087**	<0.005	<0.005	**0.06**	<0.5	<0.5	**0.016**	<0.005	<0.005	**42.0**	**17.0**	**1.5**	**4.9**	**4.7**	**1.2**	**0.0073**	<0.005	**1.1**	**1.4**	**2.6**	**3.1**
trans-1, 2-Dichloroethene		156-60-5	0.1	0.174	1.24	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	0.0057	<0.5	<0.5	<0.001	<0.005	<0.005	**0.90**	**1.3**	**0.54**	**0.32**	<0.001	<0.005	<0.005	<0.005	0.0036	<0.005	0.016	0.016
Trichloroethene (TCE)		79-01-6	0.005**	1.02	0.290	0.0028	0.0034J	**0.012**	0.01	<0.005	<0.005	**0.027**	<0.5	<0.5	**0.0057**	<0.005	<0.005	**30.0**	**22.0**	**1.1**	**1.8**	**0.1**	**0.029**	**0.0068**	<0.005	**0.056**	**0.052**	**0.17**	**0.26**
Vinyl Chloride		75-01-4	0.002**	0.27	0.097	<0.001	<0.002	**0.055**	**0.05**	**0.022**	**0.021**	<0.001	<0.2	<0.2	<0.001	<0.002	<0.002	**3.7**	**1.8**	**2.4**	**1.6**	<0.001	**0.0028**	**0.0071**	<0.002	<0.001	<0.002	**0.0078**	<0.002
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laboratory Artifacts																													
1,2-Dichlorobenzene		95-50-1	NA(1)			<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.5	<0.5	<0.001	<0.005	<0.005	0.019	0.01	<0.5	0.0052	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005
Acetone		67-64-1	4			<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.002	<0.5	<5	<0.002	<0.05	<0.05	<0.002	0.094	<5	<0.05	<0.002	<0.05	<0.05	<0.05	<0.002	<0.05	<0.05	<0.05
Chlorobenzene		108-90-7	NA(1)			<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.5	<0.5	<0.001	<0.005	<0.005	0.0036	0.002J	<0.5	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																													
1,2-Dibromoethane (EDB)		106-93-4	PRC			<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	0.013	<0.5	<0.5	<0.001	<0.005	<0.005	<0.001	<0.005	<0.5	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005
1, 2-Dichloroethane		107-06-2	PRC			<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	0.4	<0.5	<0.5	<0.001	<0.005	<0.005	<0.001	<0.005	<0.5	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005
2-Butanone (MEK)		78-93-3	PRC			<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	0.19	<5.0	<5.0	<0.002	<0.05	<0.05	<0.002	<0.05	<5.0	<0.05	<0.002	<0.05	<0.05	<0.05	<0.002	<0.05	<0.05	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC			<0.002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<1.0	<1.0	<0.002	<0.01	<0.01	<0.002	0.076	<1.0	0.012	<0.002	<0.01	<0.01	<0.01	<0.002	<0.01	<0.01	<0.01
Benzene		71-43-2	PRC			0.83	1.2	1.2	0.74	0.24	0.28	13.0	14.0	13	0.16	0.19	0.07	2.0	3.7	5	3.1	0.0018	<0.005	<0.005	<0.005	0.0018	<0.005	0.013	<0.005
Cyclohexane		110-82-7	PRC			0.045	0.1	0.19	0.23	0.061	0.07	0.14	<0.5	<0.5	0.035	0.053	0.042	<0.001	0.069	<0.5	0.064	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005
Ethylbenzene		100-41-4	PRC			0.33	0.6	0.63	0.4	0.25	0.27	2.6	3.0	2.7	0.19	0.0075	<0.005	0.465	0.89	1.3	0.53	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005
Isopropylbenzene		98-82-8	PRC			0.013	0.027	0.044	0.043	0.014	0.016	0.082	0.095J	0.5	0.017	0.034	0.019	0.019	0.038	0.5	0.041	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC			2.4	3.2	1.1	18	1.4	1.6	0.93	1.1	1.4	<0.002	0.0012J	<0.005	0.945	1.3	1.6	0.7	0.022	<0.005	<0.005	<0.005	0.26	0.064	0.31	0.052
Styrene		100-42-5	PRC			<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.5	<0.5	<0.001	<0.005	<0.005	<0.001	<0.005	<0.5	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005
Toluene		108-88-3	PRC			0.054	3.4	3.3	2.1	0.77	0.87	6.0	15.0	7.9	0.0075	0.0065	<0.005	4.1	7.1	1.8	0.6	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005
Xylenes, Total		1330-20-7	PRC			0.445	2.34	2.67	16.6	0.90	0.95	14.7	16.9	16.4	0.8884	0.019	0.0078	1.6	3.7	0.71	0.45	<0.002	<0.01	<0.005	<0.005	<0.002	<0.01	<0.005	<0.005

NOTES:

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker
	Exceeds UST Program ISWQS for Petroleum Constituent

ISWQS Georgia In-Stream Water Quality Standards (Rule 391-3-6-.03 Water Use Classifications and Water Quality Standards)
PRC Pertroleum related constituent
NA(1) Not Applicable - fumigant-insecticide properly applied
NA(2) Not Applicable - Petroleum related constituent which has no In-Stream Water Quality Standard
NR Not regulated
* Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Type 1 RRS has a higher value.
** RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS in Condition 8.
FPP Free-phase petroleum present in the monitoring well

Table 4
Groundwater Analytical Data - Detected Constituents
Fashion Care/Executive Care VRP Site (HSI #10786)
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		FMW-7	FMW-7	FMW-7	FMW-8	FMW-8[3]	FMW-8	FMW-9	FMW-9	FMW-9	FMW-9	FMW-10	FMW-10	FMW-10	FMW-11	FMW-11	FMW-11	FMW-12[3]	FMW-12	FMW-13(3)	FMW-13	FMW-13	FMW-14	FMW-14	FMW-14
	Date Sampled			Construction Worker	Utility Worker	12/3/08	3/9/10	7/12/12	12/2/08	3/8/10	7/11/12	12/3/08	3/11/10	7/10/12	4/29/14	12/2/08	3/11/10	7/11/12	12/2/08	3/11/10	7/11/12	3/17/10	7/12/12	3/17/10	7/10/12	4/29/14	5/27/10	7/11/12	4/29/14
Volatile Organic Compounds																													
Fashion Care HSRA Site Constituents of Interest																													
1,1-Dichloroethene		75-35-4	0.007	0.577	4.12	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane		79-00-5	0.005												<0.005											<0.005			<0.005
cis-1, 2-Dichloroethene		156-59-2	0.53	12.8	91.3	<0.001	<0.005	<0.005	0.00236	0.0022J	<0.005	0.0534	0.29	**0.72**	**0.82**	0.0445	0.11	<0.005	0.00288	0.01	<0.005	0.0014J	<0.005	0.0011J	0.078	<0.005	**0.0074**	0.027	0.0071
Tetrachloroethene (PCE)		127-18-4	0.005**	0.286	0.082	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	**0.922**	**1.6**	**1.8**	**2.3**	<0.001	<0.005	<0.005	**0.0394**	**0.044**	**0.03**	0.0046J	<0.005	**0.018**	**0.23**	**0.01**	**0.01**	**0.027**	<0.005
trans-1, 2-Dichloroethene		156-60-5	0.1	0.174	1.24	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	0.00086	0.0062	0.01	0.014	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene (TCE)		79-01-6	0.005**	1.02	0.290	<0.001	<0.005	<0.005	<0.001	0.001J	<0.005	**0.0262**	**0.072**	**0.13**	**0.25**	<0.001	**0.028**	<0.005	**0.00573**	**0.011**	<0.005	<0.005	<0.005	0.0026J	**0.054**	<0.005	**0.02**	**0.023**	<0.005
Vinyl Chloride		75-01-4	0.002**	0.27	0.097	<0.001	<0.002	<0.002	<0.001	<0.002	<0.002	<0.001	<0.002	<0.002	**0.02**	**0.0106**	**0.011**	<0.002	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laboratory Artifacts																													
1,2-Dichlorobenzene		95-50-1	NA(1)			<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone		67-64-1	4			<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorobenzene		108-90-7	NA(1)			<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																													
1,2-Dibromoethane (EDB)		106-93-4	PRC			<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1, 2-Dichloroethane		107-06-2	PRC			<0.001	<0.005	<0.005	<0.001	0.0013J	<0.005	0.00215	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	0.00152	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005
2-Butanone (MEK)		78-93-3	PRC			<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC			<0.002	<0.01	<0.01	0.0102	<0.01	<0.01	<0.002	<0.01	<0.01	<0.01	<0.002	<0.01	<0.01	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	PRC			<0.001	<0.005	<0.005	3.07	2.4	2.5	0.00065	<0.005	<0.005	0.035	0.00097	<0.005	<0.005	0.00134	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005
Cyclohexane		110-82-7	PRC			<0.001	<0.005	<0.005	0.18	0.37	<0.25	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene		100-41-4	PRC			<0.001	<0.005	<0.005	2.72	2.2	2.3	0.00052	<0.005	<0.005	<0.005	0.00073	<0.005	<0.005	0.00321	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005
Isopropylbenzene		98-82-8	PRC			<0.001	<0.005	<0.005	0.0823	0.086	0.091	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC			<0.002	<0.005	<0.005	<0.002	<0.005	<0.005	0.615	0.19	0.4	0.26	0.0235	0.017	<0.005	0.575	0.14	0.24	0.047	0.046	<0.005	0.027	<0.005	**0.0033**	0.012	<0.005
Styrene		100-42-5	PRC			<0.001	<0.005	<0.005	0.0213	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene		108-88-3	PRC			<0.001	<0.005	<0.005	7.71	5.5	2.5	0.00196	<0.005	<0.005	<0.005	0.0014	<0.005	<0.005	0.00559	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005
Xylenes, Total		1330-20-7	PRC			<0.002	<0.01	<0.005	14.97	12.1	13.3	0.00285	<0.01	<0.005	<0.005	0.00412	<0.01	<0.005	0.021	<0.01	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01	<0.001	<0.005	<0.005

NOTES:

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker
	Exceeds UST Program ISWQS for Petroleum Constituent

ISWQS Georgia In-Stream Water Quality Standards (Rule 391-3-6-.03 Water Use Classifications and
PRC Pertroleum related constituent
NA(1) Not Applicable - fumigant-insecticide properly applied
NA(2) Not Applicable - Petroleum related constituent which has no In-Stream Water Quality Stan
NR Not regulated
* Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Type 1 RRS has a h
** RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RR
FPP Free-phase petroleum present in the monitoring well

Table 4
Groundwater Analytical Data - Detected Constituents
Fashion Care/Executive Care VRP Site (HSI #10786)
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		FMW-15	FMW-15	FMW-15	FMW-16	FMW-16	FMW-16	FMW-17	FMW-17	SB-24[3]	SB-24	SB-25[3]	SB-26[3]	SB-26	Stantec UST Data MW-1	Stantec UST Data MW-2R	MW-2R	MW-2R	Stantec UST Data MW-3	Stantec UST Data MW-4R	Stantec UST Data MW-8	MW-8	Stantec UST Data MW-9R	MW-9R	MW-9R
	Date Sampled			Construction Worker	Utility Worker	6/15/10	7/10/12	4/30/14	6/15/10	7/10/12	4/30/14	3/29/13	4/30/14	3/16/10	7/13/12	3/16/10	3/16/10	7/13/12	6/7/08	6/7/08	9/9/08	3/8/10	6/7/08	6/7/08	6/7/08	3/9/10	6/7/08	9/9/08	3/9/10
Volatile Organic Compounds																													
Fashion Care HSRA Site Constituents of Interest																													
1,1-Dichloroethene		75-35-4	0.007	0.577	4.12	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.5	<0.1	<0.25	<0.5	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005
1,1,2-Trichloroethane		79-00-5	0.005					<0.005			<0.005	<0.005	<0.005																
cis-1, 2-Dichloroethene		156-59-2	0.53	12.8	91.3	<0.005	<0.005	<0.005	<0.005	0.0094	<0.005	<0.005	<0.005	**2.2**	**2.7**	**0.78**	**9.7**	**13**	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	0.110	0.220	**1.7**
Tetrachloroethene (PCE)		127-18-4	0.005**	0.286	0.082	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.5	<0.1	**9.0**	**12**	FPP	<0.005	<0.001	<0.005	<0.005	<0.013	<0.005	<0.005	**0.12**	**0.1**	**1.7**
trans-1, 2-Dichloroethene		156-60-5	0.1	0.174	1.24	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.046J	<0.5	<0.1	0.057J	<0.5	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	0.021
Trichloroethene (TCE)		79-01-6	0.005**	1.02	0.290	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.02J**	<0.5	<0.1	**6.7**	**11**	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	**0.021**	**0.022**	**0.62**
Vinyl Chloride		75-01-4	0.002**	0.27	0.097	**0.0061**	**0.0032**	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.035J**	<0.2	<0.04	**0.81**	**0.46**	FPP	<0.002	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.1**	**0.087**
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laboratory Artifacts																													
1,2-Dichlorobenzene		95-50-1	NA(1)			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.5	<0.1	<0.25	<0.5	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005
Acetone		67-64-1	4			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.6	<5	<1.0	<2.5	<5	FPP	<0.05	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05
Chlorobenzene		108-90-7	NA(1)			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.5	<0.1	<0.25	<0.5	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																													
1,2-Dibromoethane (EDB)		106-93-4	PRC			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.5	<0.1	<0.25	<0.5	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005
1, 2-Dichloroethane		107-06-2	PRC			<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.5	<0.1	<0.25	<0.5	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005
2-Butanone (MEK)		78-93-3	PRC			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.81J	<5.0	<1.0	<2.5	<5.0	FPP	<0.05	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.2	<1.0	<0.2	<0.5	<1.0	FPP	<0.01	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
Benzene		71-43-2	PRC			<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	3.5	5.3	1.5	0.33	<0.5	FPP	<0.005	<0.001	<0.005	0.068	<0.005	1.8	1.0	1.8	1.6	0.83
Cyclohexane		110-82-7	PRC			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.12	<0.5	0.12	0.17J	<0.5	FPP	<0.005	<0.001	<0.005	0.13	<0.005	0.085	0.075	0.11	0.14	0.12
Ethylbenzene		100-41-4	PRC			<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.55	1.2	1.4	0.065J	<0.5	FPP	<0.005	<0.001	<0.005	0.86	<0.005	0.90	1.1	1.8	2.0	1.5
Isopropylbenzene		98-82-8	PRC			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.027J	<0.5	0.044J	<0.25	<0.5	FPP	<0.005	<0.001	<0.01	0.095	<0.005	0.071	0.081	0.16	0.19	0.14
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC			**0.0021**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	8.1	10	0.62	<0.25	<0.5	FPP	<0.005	<0.002	<0.005	0.038	<0.005	0.022	0.013	0.089	<0.02	0.15
Styrene		100-42-5	PRC			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.5	<0.1	<0.25	<0.5	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005
Toluene		108-88-3	PRC			<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	4.6	9.8	4.7	0.086J	<0.5	FPP	<0.005	<0.001	<0.005	0.220	<0.005	3.5	2.3	0.180	0.26	0.15
Xylenes, Total		1330-20-7	PRC			<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	3.15	7.7	6.3	0.081J	<0.5	FPP	<0.005	<0.002	<0.01	4.10	<0.005	6.2	5.6	3.5	4.05	3.06

NOTES:

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker
	Exceeds UST Program ISWQS for Petroleum Constituent

ISWQS Georgia In-Stream Water Quality Standards (Rule 391-3-6-.03 Water Use Classifications anc
PRC Pertroleum related constituent
NA(1) Not Applicable - fumigant-insecticide properly applied
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NR Not regulated
* Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Type 1 RRS has a h
** RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RR
FPP Free-phase petroleum present in the monitoring well

Table 4
Groundwater Analytical Data - Detected Constituents
Fashion Care/Executive Care VRP Site (HSI #10786)
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		Stantec UST Data RW-13 (MW 10R)	Stantec UST Data MW-11	MW-11	MW-11[3]	Stantec UST Data MW-12	Stantec UST Data MW-13	MW-13	MW-13	Stantec UST Data MW-14	MW-14	Stantec UST Data MW-15	Stantec UST Data MW-16	Stantec UST Data RW-7 (MW-17)	Stantec UST Data MW-18	Stantec UST Data MW-19	Stantec UST Data MW-20	Stantec UST Data MW-21	Stantec UST Data MW-22	Stantec UST Data MW-23D	MW-23D	MW-23D[3]
	Date Sampled			Construction Worker	Utility Worker	6/7/08	6/7/08	9/9/08	3/9/10	6/7/08	6/7/08	9/8/08	3/11/10	6/7/08	9/8/08	6/7/08	6/7/08	6/7/08	6/7/08	6/7/08	6/7/08	6/7/08	6/7/08	6/7/08	9/9/08	3/9/10
Volatile Organic Compounds																										
Fashion Care HSRA Site Constituents of Interest																										
1,1-Dichloroethene		75-35-4	0.007	0.577	4.12	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	0.0027	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005
1,1,2-Trichloroethane		79-00-5	0.005																							
cis-1, 2-Dichloroethene		156-59-2	0.53	12.8	91.3	<0.005	<0.005	<0.001	0.021	<0.005	<0.005	<0.001	<0.005	**2.4**	**2.6**	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	0.068	0.0034	0.095
Tetrachloroethene (PCE)		127-18-4	0.005**	0.286	0.082	<0.005	<0.005	0.0028	**0.026**	<0.005	<0.005	<0.001	<0.005	**0.22**	**0.26**	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.006	<0.005	**26.0**	**1.70**	**18.0**
trans-1, 2-Dichloroethene		156-60-5	0.1	0.174	1.24	<0.005	<0.005	<0.001	0.0011J	<0.005	<0.005	<0.001	<0.005	<0.005	0.018	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	0.0015J
Trichloroethene (TCE)		79-01-6	0.005**	1.02	0.290	<0.005	<0.005	<0.001	**0.016**	<0.005	<0.005	<0.001	<0.005	**0.23**	**0.26**	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	**0.7**	**0.028**	**0.061**
Vinyl Chloride		75-01-4	0.002**	0.27	0.097	<0.002	<0.002	<0.001	0.001J	<0.002	<0.002	<0.001	<0.002	**0.34**	**0.83**	<0.002	<0.002	FPP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.002
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laboratory Artifacts																										
1,2-Dichlorobenzene		95-50-1	NA(1)			<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	0.0026	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	0.0058	<0.001	0.0021J
Acetone		67-64-1	4			<0.05	<0.05	<0.002	<0.05	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	FPP	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.033	<0.05
Chlorobenzene		108-90-7	NA(1)			<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																										
1,2-Dibromoethane (EDB)		106-93-4	PRC			<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005
1, 2-Dichloroethane		107-06-2	PRC			<0.005	<0.005	<0.001	<0.005	<0.005	0.024	0.012	<0.005	<0.005	<0.001	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	0.00093J
2-Butanone (MEK)		78-93-3	PRC			<0.05	<0.05	<0.002	<0.05	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	FPP	<0.05	<0.05	<0.05	0.051	<0.05	<0.05	<0.002	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC			<0.01	<0.01	<0.002	<0.01	<0.01	<0.01	<0.002	<0.01	<0.01	<0.002	<0.01	<0.01	FPP	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.01
Benzene		71-43-2	PRC			14.0	<0.005	0.0052	0.047	<0.005	<0.005	<0.001	<0.005	0.14	0.13	1.3	<0.005	FPP	<0.005	<0.005	<0.005	10.0	<0.005	<0.005	<0.001	0.00028J
Cyclohexane		110-82-7	PRC			0.17	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	0.018	0.026	0.034	<0.005	FPP	<0.005	<0.005	<0.005	0.170	0.053	0.005	<0.001	<0.005
Ethylbenzene		100-41-4	PRC			3.9	<0.005	0.0014	0.017	<0.005	<0.005	<0.001	<0.005	<0.005	0.0014	0.013	<0.005	FPP	<0.005	0.0083	<0.005	4.4	0.057	<0.005	<0.001	0.0009J
Isopropylbenzene		98-82-8	PRC			0.16	<0.005	<0.001	0.001J	<0.005	<0.005	<0.001	<0.01	0.0078	0.01	0.027	<0.005	FPP	<0.005	<0.005	<0.005	0.160	0.027	<0.005	<0.001	0.00036J
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC			6.2	0.012	0.013	0.0041J	<0.005	0.038	0.19	0.012	0.370	0.13	0.320	<0.005	FPP	0.018	<0.005	<0.005	9.2	<0.005	0.049	0.0018	0.015
Styrene		100-42-5	PRC			<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005
Toluene		108-88-3	PRC			41.0	<0.005	<0.001	0.0058	<0.005	<0.005	<0.001	<0.005	0.0086	0.015	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	6.6	0.021	<0.005	<0.001	<0.005
Xylenes, Total		1330-20-7	PRC			22.1	<0.005	<0.002	0.0084J	<0.005	<0.005	<0.002	<0.01	<0.005	0.0059	0.0078	<0.005	FPP	<0.005	<0.005	<0.005	23.8	0.220	0.011	0.0011	0.0041J

NOTES:

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker
	Exceeds UST Program ISWQS for Petroleum Constituent
ISWQS	Georgia In-Stream Water Quality Standards (Rule 391-3-6-.03 Water Use Classifications anc
PRC	Pertroleum related constituent
NA(1)	Not Applicable - fumigant-insecticide properly applied
NA(2)	Not Applicable - Petroleum related constituent which has no In-Stream Water Quality Stan
NR	Not regulated
*	Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Type 1 RRS has a h
**	RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RR
FPP	Free-phase petroleum present in the monitoring well

Table 5
Surface Water Data
Fashion Care/Executive Care VRP Site (HSI #10786)
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3
	Date Sampled		9/8/08	9/8/08	9/8/08	1/5/10	1/5/10	1/5/10	10/6/11	10/6/11	10/6/11	10/7/11	10/7/11	10/7/11	10/8/11	10/8/11	10/8/11	10/9/11	10/9/11	10/9/11
Volatile Organic Compounds (mg/L)																				
Fashion Care HSRA Site Constituents of Interest																				
1,1-Dichloroethene		75-35-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1, 2-Dichloroethene		156-59-2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene (PCE)		127-18-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1, 2-Dichloroethene		156-60-5	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene (TCE)		79-01-6	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride		75-01-4	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring, Laboratory Artifacts or Attributed to Other Sources																				
1,2-Dichlorobenzene		95-50-1	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone		67-64-1	<0.002	<0.002	<0.002	<0.05	<0.05	<0.05	0.022	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chlorobenzene		108-90-7	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane		74-87-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	0.002	0.001	<0.001
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																				
1,2-Dibromoethane (EDB)		106-93-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1, 2-Dichloroethane		107-06-2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Butanone (MEK)		78-93-3	<0.002	<0.002	<0.002	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Methyl-2-pentanone (MIBK)		108-10-1	<0.002	<0.002	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cyclohexane		110-82-7	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene		100-41-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene		98-82-8	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-butyl ether (MTBE)		1634-04-4	<0.002	<0.002	<0.002	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene		100-42-5	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene		108-88-3	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes, Total		1330-20-7	<0.002	<0.002	<0.002	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

NOTES:

Detections attibuted to upstream sources.

Table 5
Surface Water Data
Fashion Care/Executive Care VRP Site (HSI #10786)
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3
	Date Sampled		10/21/11	10/21/11	10/21/11	10/22/11	10/22/11	10/22/11	10/23/11	10/23/11	10/23/11	10/24/11	10/24/11	10/24/11	7/11/12	7/11/12	7/11/12	4/28/14	4/28/14	4/28/14
Volatile Organic Compounds (mg/L)																				
Fashion Care HSRA Site Constituents of Interest																				
1,1-Dichloroethene		75-35-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1, 2-Dichloroethene		156-59-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Tetrachloroethene (PCE)		127-18-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1, 2-Dichloroethene		156-60-5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene (TCE)		79-01-6	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl Chloride		75-01-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Properly Applied Chemicals, Non-HSRA Regulated Chemicals																				
1,2-Dichlorobenzene		95-50-1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone		67-64-1	0.021	0.022	0.023	0.034	0.037	0.031	0.046	0.040	0.051	0.190	0.180	0.200	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorobenzene		108-90-7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane		74-87-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Petroleum Constituents/VOCs Related to the EZ-Serve UST SI																				
1,2-Dibromoethane (EDB)		106-93-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1, 2-Dichloroethane		107-06-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone (MEK)		78-93-3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cyclohexane		110-82-7	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene		100-41-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene		98-82-8	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Styrene		100-42-5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene		108-88-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylenes, Total		1330-20-7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

NOTES:

Detections attibuted to upstream sources.

Table 6
Sediment Data
Fashion Care/Executive Care VRP Site (HSI #10786)
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS NUMBER	HSRA Soil Type 1 RRS	SD-1	SD-2	SD-3	DUP 20110 (SD-2)
	Depth (feet bgs)			0-0.5	0-0.5	0-0.5	0-0.5
	Date Sampled			05/28/10	05/28/10	05/28/10	05/28/10
Volatile Organic Compounds (VOCs) - mg/kg							
1, 1-Dichloroethane		75-34-3	44.2	<0.0036	<0.0036	<0.0041	<0.0035
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	<0.00036	<0.0036	<0.0041	<0.0035
Acetone		67-64-1	400	<0.072	0.28	0.24	0.23
cis-1, 2-Dichloroethene		156-59-2	7	<0.0036	<0.0036	<0.0041	<0.0035
Tetrachloroethene (PCE)		127-18-4	0.5	<0.0036	<0.0036	<0.0041	<0.0035
trans-1, 2-Dichloroethene		156-60-5	10	<0.0036	<0.0036	<0.0041	<0.0035
Trichloroethene (TCE)		79-01-6	0.5	<0.0036	<0.0036	<0.0041	<0.0035
Vinyl Chloride (VC)		75-01-4	0.2	<0.0072	<0.0072	<0.0082	<0.0069
Benzene		71-43-2	PRC	<0.0036	<0.0036	<0.0041	<0.0035
Toluene		108-88-3	PRC	<0.0036	<0.0036	0.0047	<0.0035
Ethylbenzene		100-41-4	PRC	<0.0036	<0.0036	<0.0041	<0.0035
Total Xylenes		1330-20-7	PRC				
Cyclohexane		110-82-7	PRC	<0.0036	<0.0036	<0.041	<0.0035
Isopropylbenzene		98-82-8	PRC	<0.0036	<0.0036	<0.0041	<0.0035
MTBE		1634-04-4	PRC	<0.0036	<0.0036	<0.0041	<0.0035

NOTES:

BOLD Exceeds HSRA Type 1 RRS

* The applicable UST Threshold Level is Table B, Lower Groundwater Pollution Susceptibility Area, ≤ 500 feet to a Surface Water Body.

PRC Petroleum relalated constituents

Table 7
Sub-Slab Vapor Sample Results

Fashion Care/Executive Care VRP Site (HSI #10786)
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	Southern Automatic		Fashion Care		
			VS-1	VS-2	SV-1	SV-2	SV-3
	Date Sampled		5/19/11	5/19/11	11/19/2014	11/19/2014	11/19/2014
Volatile Organic Compounds		**(ug/m^3)**					
Constituents of Interest							
Tetrachloroethene (PCE)		127-18-4	15	10	<14	<14	<14
Trichloroethene (TCE)		79-01-6	9.2	<5.5	<11	<11	<11
Naturally Ocurring or Laboratory Artifacts							
Acetone		67-64-1	240	210	NA	NA	NA
Carbon Disulfide		75-15-0	43	<6.3	NA	NA	NA
Chloroform		865-49-6	12	<5.0	<9.8	<9.8	<9.8
Petroleum Constituents Related to the EZ-Serve UST SITE							
4-Ethyltoluene		8007-24-7	5.2	<5.0	NA	NA	NA
1,3,5-Trimethylbenzene		108-67-8	6.2	5.7	<9.8	<9.8	<9.8
1,2,4-Trimethylbenzene		95-63-6	21	23	<9.8	<9.8	<9.8
Benzene		71-43-2	57	9.1	<6.4	<6.4	<6.4
Ethylbenzene		100-41-4	21	13	<8.7	<8.7	<8.7
Styrene		100-42-5	7.4	6.5	<8.5	<8.5	<8.5
Toluene		108-88-3	130	48	<7.5	<7.5	<7.5
Xylenes, Total		1330-20-7	62	53	<8.7	<8.7	<8.7

NOTES:

NA, Not Analyzed

FIGURES

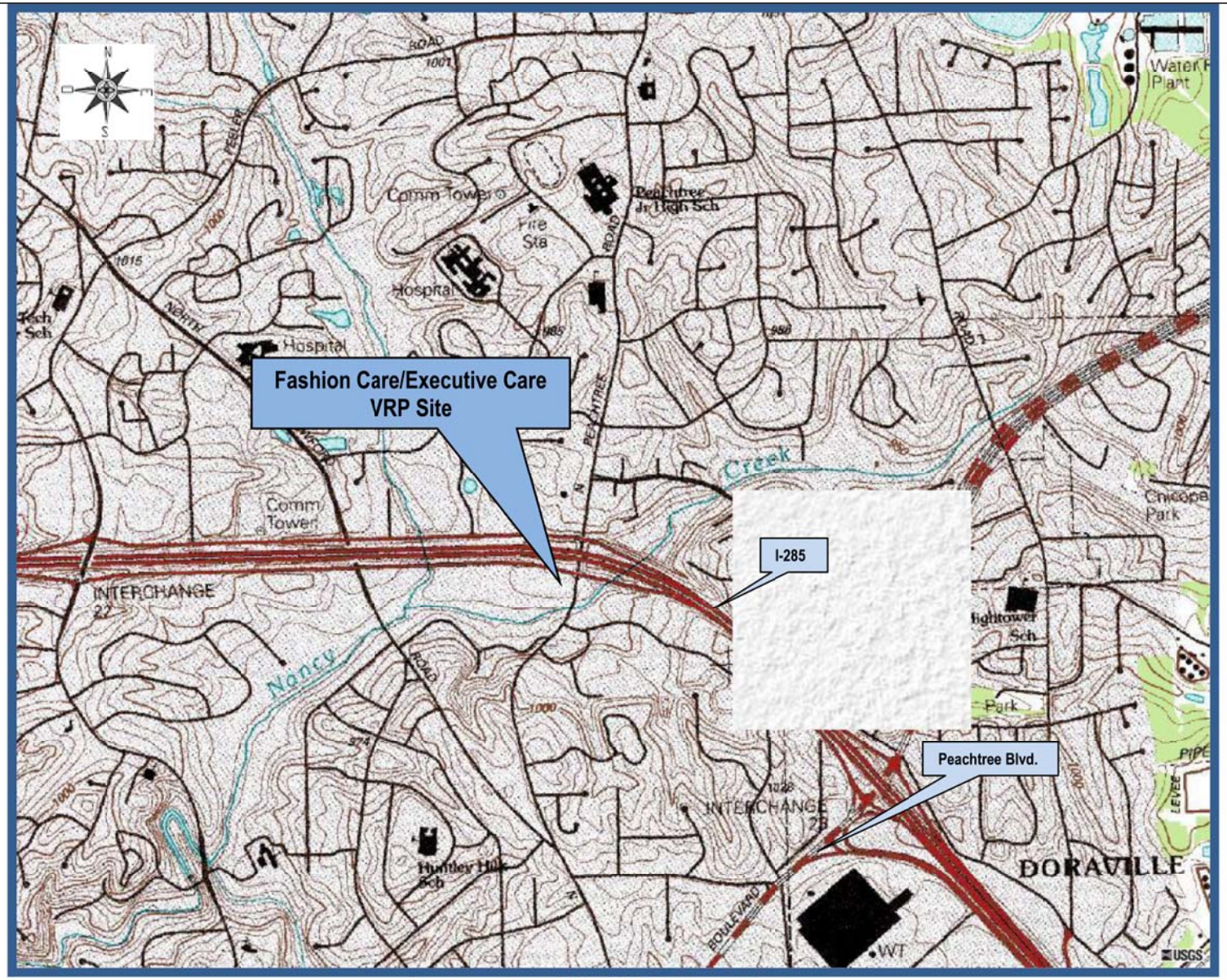


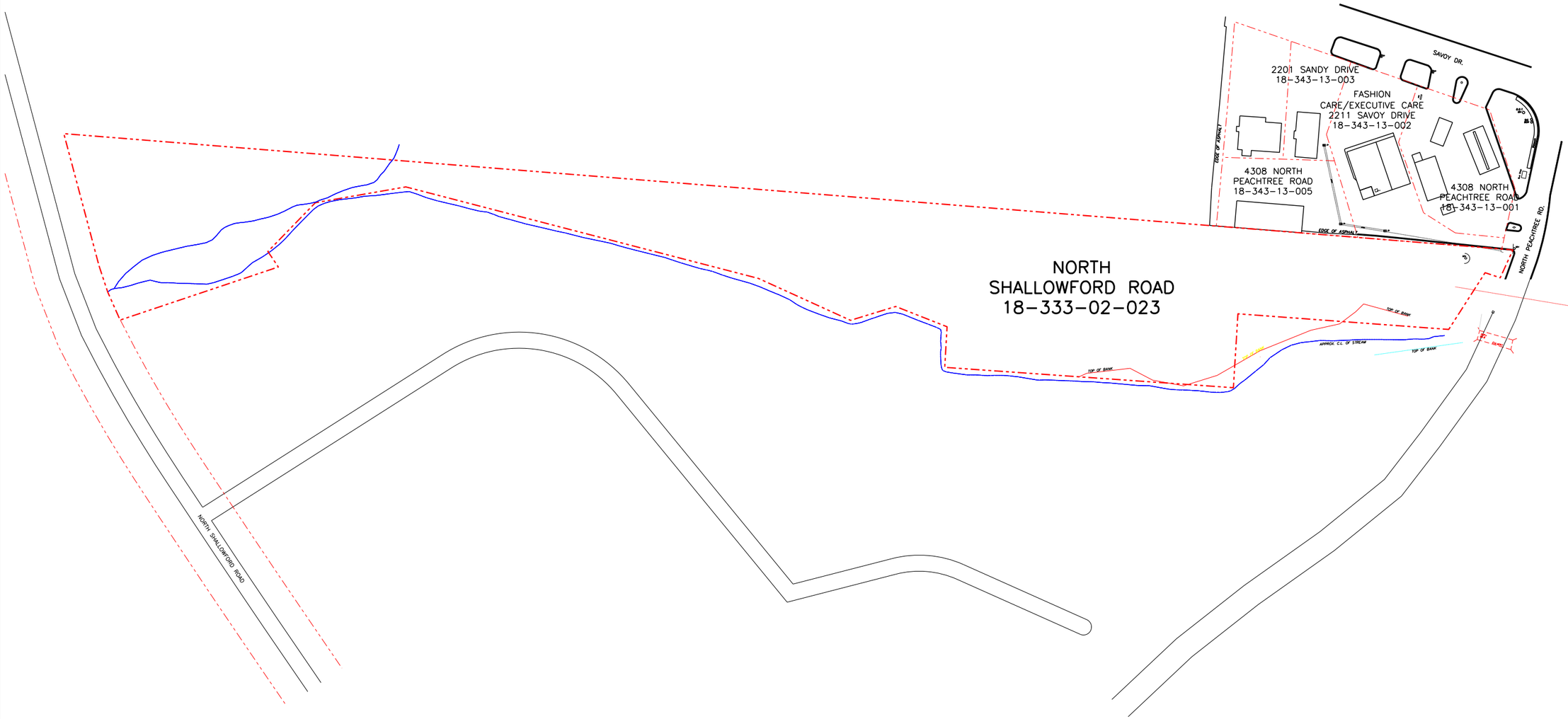
Image courtesy of the U.S. Geological Survey

REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.

SCALE: NTS	DATE: 4-2-15	PROJECT NO: 2015.0058.02	TITLE: SITE LOCATION MAP FASHION CARE/EXECUTIVE CARE VRP SITE 2211 SAVOY DRIVE, CHAMBLEE, GEORGIA
PREPARED: VPV	CHECKED:	REVISIONS:	
CLIENT: ROWAN TRUST			We're here for you UNITED CONSULTING 625 Holcomb Bridge Road Norcross, Georgia 30071 770-209-0029 Fax 582-2900 www.unitedconsulting.com Copyright © United Consulting Group, Ltd.

FIG. 1

REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.



LEGEND

APPROXIMATE PROPERTY LINE

ASL LIMITED PARTNERSHIP PROPERTY

N

80' 0 80' 160'

SCALE (IN FEET)

NOTE: BASE MAPPING IS BASED ON LANDPRO SURVEY

FIG. 2

TITLE: TAX PARCEL MAP
FASHION CARE/EXECUTIVE CARE VRP SITE
2211 SAVOY DRIVE, CHAMBLEE, GEORGIA

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Norcross, Georgia 30071
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PROJECT NO: 2015.0058.02

REVISIONS:

DATE: 4-2-15

CHECKED:

SCALE: 1" = 160'

PREPARED: VPV

CLIENT: ROWAN TRUST

REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.

FIG. 3

TITLE: AREAS OF SOIL IMPACTS GREATER THAN RRS
FASHION CARE/EXECUTIVE CARE VRP SITE
2211 SAVOY DRIVE, CHAMBLEE, GEORGIA

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PROJECT NO: 2015.0058.02
DATE: 4-2-15
SCALE: 1" = 60'
REVISIONS:
CHECKED:
PREPARED: VPV
CLIENT: ROWAN TRUST

REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.

VICINITY MAP

LEGEND

- APPROXIMATE PROPERTY LINE
- MW-8 [83.64] MONITORING WELL [GROUNDWATER ELEVATION]
- SD-1 SEDIMENT SAMPLE LOCATION
- 84' GROUNDWATER ISOCONTOUR
- PCE 0.01 GROUNDWATER CONCENTRATION (mg/l)
- CONCENTRATIONS > TYPE 1/3 RRS
- CONCENTRATIONS > TYPE 5 CONSTRUCTION/UTILITY WORKER

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

FIG. 4

TITLE: APRIL 2014 GROUNDWATER DATA MAP
FASHION CARE/EXECUTIVE CARE VRP SITE
2211 SAVOY DRIVE, CHAMBLEE, GEORGIA

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PROJECT NO: 2015.0058.02

REVISIONS:

DATE: 4-2-15

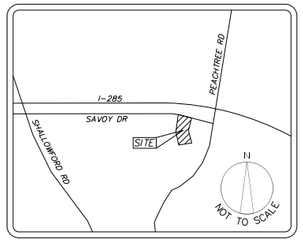
CHECKED:

SCALE: 1" = 60'

PREPARED: VPV

CLIENT: ROWAN TRUST

REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.



VICINITY MAP

LEGEND

- APPROXIMATE PROPERTY LINE
- MW-8 — MONITORING WELL (SHOWN AS FADED IF ABANDONED)
- SD-1 — SEDIMENT SAMPLE LOCATION
- SB-9 — 11/2013 SOIL BORING LOCATION
- [14 ft.] — APPROX. DEPTH BELOW GRADE TO TOP OF DRY SILT

SAVOY DR.

2201 SAVOY DRIVE
18-343-13-003

FASHION CAR/EXECUTIVE CARE
2211 SAVOY DRIVE
18-343-13-002

RESTAURANT

RESTAURANT

EDGE OF ASPHALT

FASHION CLEANERS DRYCLEANERS

RESTAURANT

Shed

EZ-Serve Gas Station Bldg. No. 4308

FF=100.00

UST Area

Canopy

Fuel Pumps

D.O.T. MH

SIG. BOX

Sidewalk

Bus Stop

4306 NORTH PEACHTREE ROAD
18-343-13-005

4308 NORTH PEACHTREE ROAD
18-343-13-001

RETAIL / DENTIST

Car Wash

24"RCP

Sign

NORTH PEACHTREE RD.

NORTH SHALLOWFORD ROAD
18-333-02-023

MH

TOP OF BANK

NANCY CREEK

C.L. CREEK

TOP OF BANK

CULVERT

TOP= 94.6

EDGE OF WATER

TOP OF BANK

FURTHER DOWNSTREAM

SEDIMENT SAMPLE COLLECTED DOWN STREAM IN FROM OF CULVERT UNDER SHALLOWFORD ROAD

MW-2R
MW-8
MW-15
MW-22
MW-21
MW-3
MW-16
MW-1
MW-11
MW-20
MW-17
MW-19
MW-9R
MW-10R
MW-18
MW-4R
MW-23D
MW-8
MW-14
MW-13
MW-12

FMW-8
FMW-2
SB-38 [23 ft.]
SB-24
SB-25
SB-26
FMW-1
FMW-7
SB-37 [23 ft.]
FMW-3
FMW-4
SB-39 [24.3 ft.]
FMW-17 [14 ft.]
FMW-15 [8 ft.]
SB-45 [17 ft.]
FMW-10
SB-42 [17 ft.]
FMW-5
SB-40 [17 ft.]
FMW-6
SB-41 [17 ft.]
FMW-11
FMW-13
SB-44 [15 ft.]
FMW-12 [15 ft.]
OLD FMW-17 [16 ft.]
FMW-16 [13 ft.]
FMW-14
SB-46 [19 ft.]
SB-43 [15 ft.]
FMW-9
SW-1
SW-2
SW-3
SG-2
SD-1

0 30 60
SCALE IN FEET

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

FIG. 5

TITLE: DRY SILT ASSESSMENT
FASHION CARE/EXECUTIVE CARE VRP SITE
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PROJECT NO: 2015.0058.02

DATE: 4-2-15

SCALE: 1" = 60'

REVISIONS:

CHECKED:

PREPARED: VPV

CLIENT: ROWAN TRUST

REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.

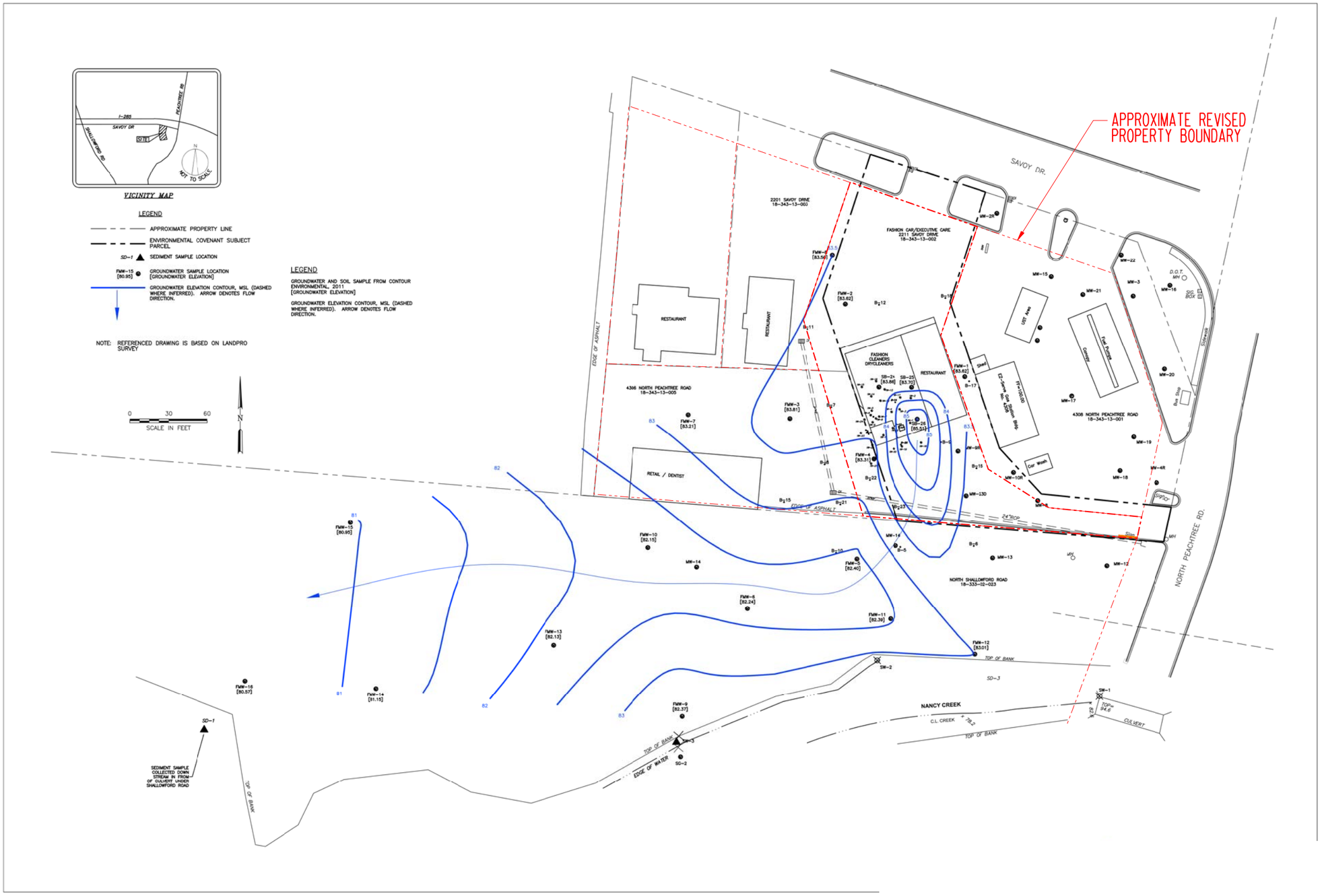

FIG. 6

TITLE: GROUNDWATER POTENTIOMETRIC MAP - 7/10/12
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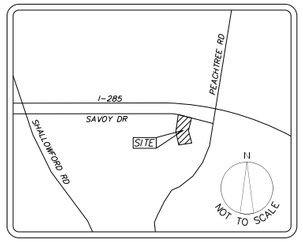
PREPARED: VPV	CHECKED:	REVISIONS:

CLIENT: ROWAN TRUST

REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.



VICINITY MAP

LEGEND

- APPROXIMATE PROPERTY LINE
- MW-8 [83.64] MONITORING WELL [GROUNDWATER ELEVATION]
- SD-1 SEDIMENT SAMPLE LOCATION
- 84' GROUNDWATER ISOCONTOUR
- PCE 0.01 GROUNDWATER CONCENTRATION (mg/l)
- CONCENTRATIONS > TYPE 1/3 RRS
- CONCENTRATIONS > TYPE 5 CONSTRUCTION/UTILITY WORKER

SAVOY DR.

2201 SAVOY DRIVE 18-343-13-003

FASHION CAR/EXECUTIVE CARE 2211 SAVOY DRIVE 18-343-13-002

4306 NORTH PEACHTREE ROAD 18-343-13-005

4308 NORTH PEACHTREE ROAD 18-343-13-001

NORTH SHALLOWFORD ROAD 18-333-02-023

NORTH PEACHTREE RD.

RESTAURANT

RESTAURANT

FASHION CLEANERS DRYCLEANERS

RESTAURANT

RETAIL / DENTIST

EZ-Serve Gas Station No. 4308

Car Wash

UST Area

Fuel Pumps

Canopy

Sidewalk

Bus Stop

D.O.T. MH

SIG. BOX

Sign

EDGE OF ASPHALT

24"RCP

TOP OF BANK

EDGE OF WATER

NANCY CREEK

C.L. CREEK

CULVERT

FURTHER DOWNSTREAM

MW-2R, MW-3, MW-4R, MW-8, MW-9R, MW-10R, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23D, FMW-1 [85.82], FMW-2 [85.84], FMW-3 [85.51], FMW-4 [85.27], FMW-5 [83.18], FMW-6 [82.78], FMW-7 [84.89], FMW-8 [85.78], FMW-9 [82.75], FMW-10 [82.89], FMW-11 [82.94], FMW-12 [83.19], FMW-13 [82.87], FMW-14 [81.94], FMW-15 [82.44], FMW-16 [81.49], FMW-17 [82.47], OLD FMW-17, SB-24 [86.18], SB-25 [85.93], SB-26 [86.87], SW-1, SW-2, SW-3, SG-2, SD-1

0 30 60
SCALE IN FEET

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

FIG. 7

TITLE: GROUNDWATER POTENTIOMETRIC MAP APRIL 1, 2014
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DATE: 4-2-15

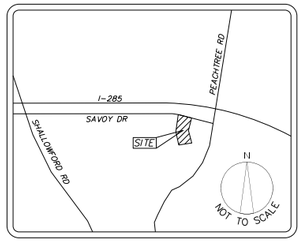
CHECKED:

SCALE: 1" = 60'

PREPARED: VPV

CLIENT: ROWAN TRUST

REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.



VICINITY MAP

LEGEND

MW-8 MONITORING WELL (SHOWN AS FADED IF ABANDONED)

SD-1 SEDIMENT SAMPLE LOCATION

SB-9 11/2013 SOIL BORING LOCATION

SAVOY DR.

2201 SAVOY DRIVE
18-343-13-003

FASHION CAR/EXECUTIVE CARE
2211 SAVOY DRIVE
18-343-13-002

RESTAURANT

RESTAURANT

EDGE OF ASPHALT

FASHION CLEANERS
DRYCLEANERS

RESTAURANT

UST Area

Shed

EZ-Serve Gas Station Bldg.
No. 4380
FF=100.00

Canopy

Fuel Pumps

Sidewalk

D.O.T. MH

SIG. BOX

Bus Stop

Car Wash

Sign

4306 NORTH PEACHTREE ROAD
18-343-13-005

4308 NORTH PEACHTREE ROAD
18-343-13-001

RETAIL / DENTIST

EDGE OF ASPHALT

24"RCP

NORTH SHALLOWFORD ROAD
18-333-02-023

NORTH PEACHTREE RD.

MH

NANCY CREEK

C.L. CREEK

TOP OF BANK

EDGE OF WATER

CULVERT

TOP=94.6

FURTHER DOWNSTREAM

SEDIMENT SAMPLE COLLECTED DOWN STREAM IN FROM OF CULVERT UNDER SHALLOWFORD ROAD

A A' B B' C C'

FMW-1 FMW-2 FMW-3 FMW-4 FMW-5 FMW-6 FMW-7 FMW-8 FMW-9 FMW-10 FMW-11 FMW-12 FMW-13 FMW-14 FMW-15 FMW-16 FMW-17 OLD FMW-17

SB-37 SB-38 SB-39 SB-40 SB-41 SB-42 SB-43 SB-44 SB-45 SB-46

SB-24 SB-25 SB-26

MW-1 MW-2R MW-3 MW-8 MW-9R MW-10R MW-11 MW-12 MW-13 MW-14 MW-15 MW-16 MW-17 MW-18 MW-19 MW-20 MW-21 MW-22 MW-23D

SD-1 SW-1 SW-2 SW-3 SG-2

N

0 30 60
SCALE IN FEET

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

FIG. 8

TITLE: CONCEPTUAL SITE MODEL CROSS-SECTION LOCATIONS
FASHION CARE/EXECUTIVE CARE VRP SITE
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REVISIONS:

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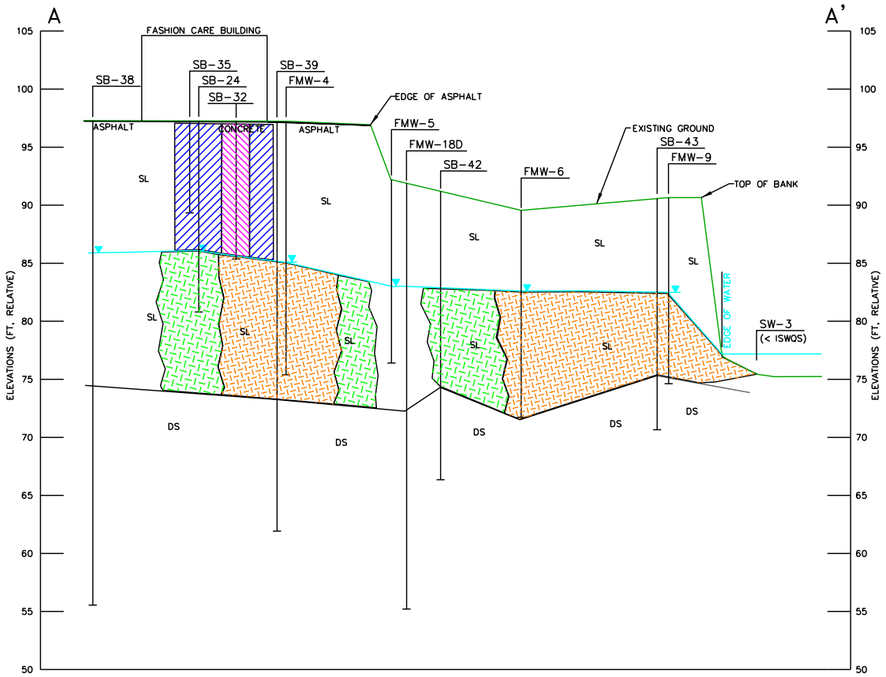
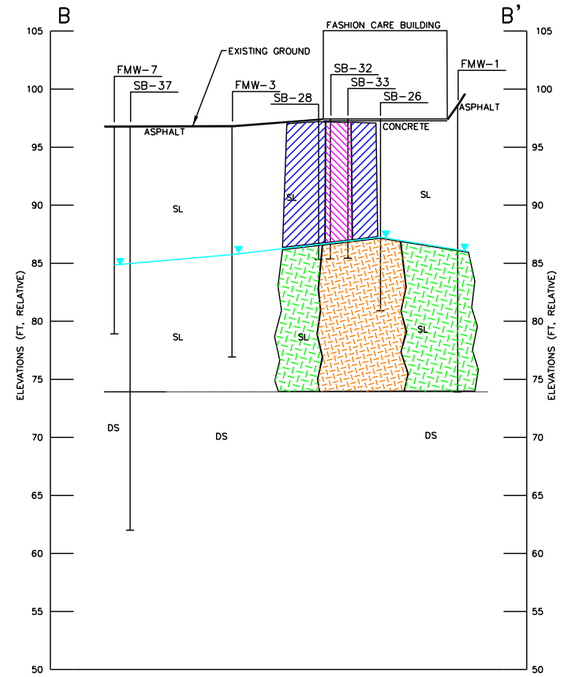
PREPARED: VPV

CLIENT: ROWAN TRUST

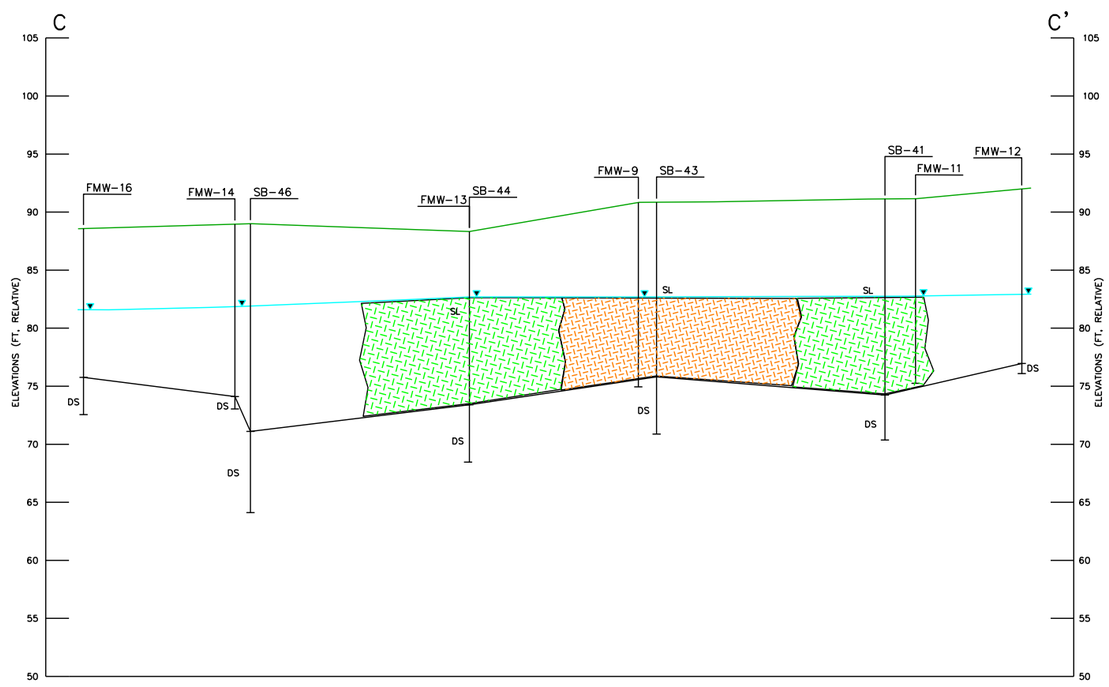
REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.



CROSS SECTION A–A'
(LOOKING EAST)



CROSS SECTION B–B'
(LOOKING NORTH)



CROSS SECTION C–C'
(LOOKING NORTH)

NOTES

1. EXTENT OF SOIL IMPACTS BASED ON FIGURE 1 OF THE FINAL UEC FOR PARCEL 18–343–13–002 FILED IN JUNE 2014.
2. EXTENT OF GROUNDWATER IMPACTS BASED ON FIGURE 4 IN THE JULY 2014 VRP STATUS REPORT (SAMPLES COLLECTED IN APRIL 2014.
3. CROSS–SECTION LOCATIONS ARE DEPICTED ON FIGURE 1.
4. STRATIGRAPHIC DATA/INFORMATION INTERPRETED FROM SOIL BORING LOGS. THE BORING LOGS AND RELATED INFORMATION DEPICT SUB–SURFACE CONDITIONS ONLY AT SPECIFIC LOCATIONS. SOIL CONDITIONS AT OTHER LOCATIONS MAY DIFFER FROM CONDITIONS OCCURRING AT THESE BORING LOCATIONS. ALSO THE PASSAGE OF TIME MAY RESULT IN A CHANGE IN THE CONDITIONS AT THESE BORING LOCATIONS.

LEGEND

SL	SILT–SANDY SILT–CLAYEY SILT
DS	DRY DENSE SILT
▼	GROUNDWATER LEVEL(4–28–14)
	SOIL CONCENTRATIONS > TYPE 3/4 RRS
	SOIL CONCENTRATIONS > TYPE 5 STANDARD
	GROUNDWATER CONCENTRATIONS > TYPE 1/3 RRS
	GROUNDWATER CONCENTRATIONS > TYPE 5 STANDARD

FIG. 9

TITLE: CONCEPTUAL SITE MODEL
FASHION CARE/EXECUTIVE CARE VRP SITE
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CHECKED:
SCALE: AS SHOWN
PREPARED: VPV
CLIENT: ROWAN TRUST

REFERENCE: ORIGINAL PLAN CREATED BY WINTER ENVIRONMENTAL.

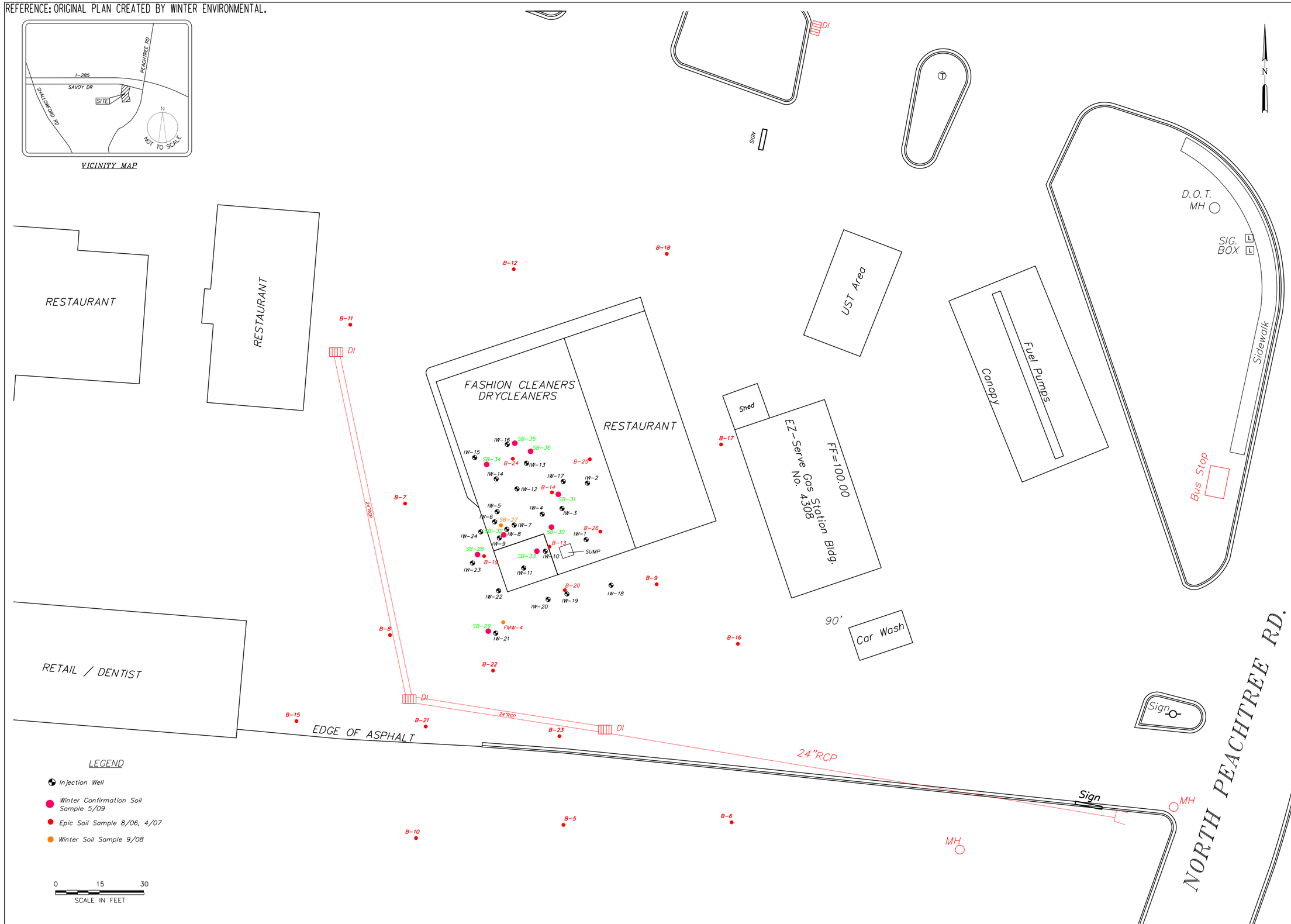

FIG. 10

TITLE: SOIL SAMPLE LOCATION MAP
FASHION CARE/EXECUTIVE CARE VRP SITE
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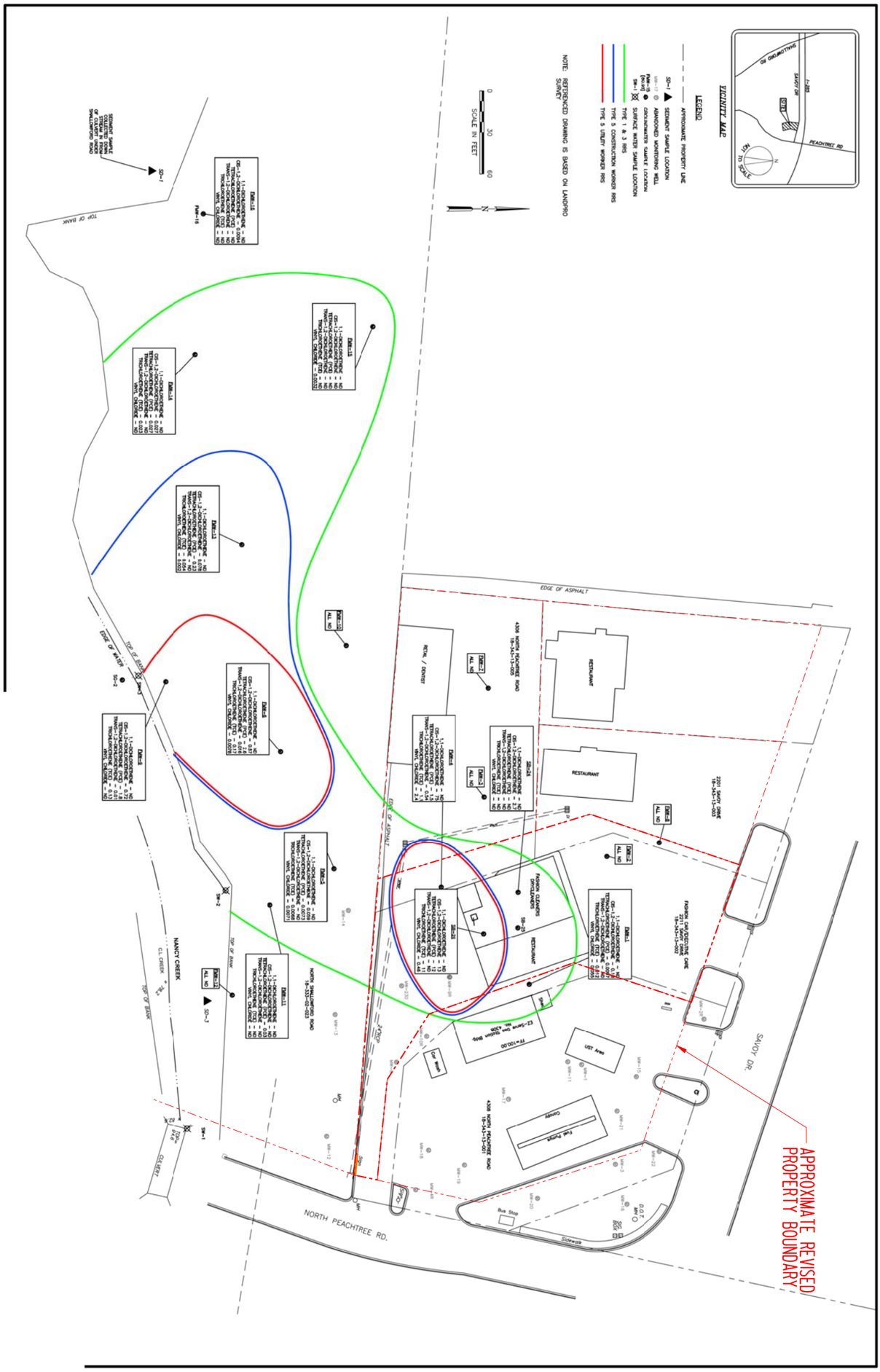
SCALE: 1" = 30'	PROJECT NO: 2015.0058.02
DATE: 4-2-15	REVISIONS:
PREPARED: VPV	CHECKED:

CLIENT: ROWAN TRUST



SCALE: 1" = 80'	DATE: 4-2-15	PROJECT NO: 2015.0058.02	TITLE: JULY 2012 GROUNDWATER DATA MAP FASHION CARE/EXECUTIVE CARE VRP SITE 2211 SAVOY DRIVE, CHAMBLEE, GEORGIA
PREPARED: VPV	CHECKED:	REVISIONS:	
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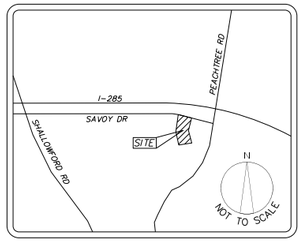
FIG. 11

REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.

REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.



VICINITY MAP

LEGEND

- APPROXIMATE PROPERTY LINE
- MW-8 MONITORING WELL
- SD-1 SEDIMENT SAMPLE LOCATION
- SW-1 SURFACE WATER SAMPLE LOCATION
- SG-1 STREAN GAUGE LOCATION

SAVOY DR.

2201 SAVOY DRIVE
18-343-13-003

FASHION CAR/EXECUTIVE CARE
2211 SAVOY DRIVE
18-343-13-002

RESTAURANT

RESTAURANT

EDGE OF ASPHALT

FASHION CLEANERS
DRYCLEANERS

RESTAURANT

SC-27
ELEV=98.48

4306 NORTH PEACHTREE ROAD
18-343-13-005

RETAIL / DENTIST

EDGE OF ASPHALT

UST Area

Canopy

Fuel Pumps

EZ-Serve Gas Station Bldg.
No. 4308
FF=100.00

Car Wash

4308 NORTH PEACHTREE ROAD
18-343-13-001

D.O.T. MH

SIG. BOX

Sidewalk

Bus Stop

Sign

24"RCP

NORTH PEACHTREE RD.

NORTH SHALLOWFORD ROAD
18-333-02-023

NANCY CREEK

C.L. CREEK

TOP OF BANK

EDGE OF WATER

CULVERT

TOP= 94.6

FURTHER DOWNSTREAM

N

0 30 60
SCALE IN FEET

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

FIG. 12

TITLE: GROUNDWATER, SURFACE WATER AND SEDIMENT SAMPLE LOCATION MAP
FASHION CARE/EXECUTIVE CARE VRP SITE
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SCALE: 1" = 60'

PREPARED: VPV

CLIENT: ROWAN TRUST

REFERENCE: ORIGINAL PLAN CREATED BY WINTER ENVIRONMENTAL.

FIG. 13

TITLE: SOIL INJECTION WELL AND CONFIRMATION SAMPLE LOCATIONS FASHION CARE/EXECUTIVE CARE VRP SITE 2211 SAVOY DRIVE, CHAMBLEE, GEORGIA

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DATE: 4-2-15

CHECKED:

SCALE: 1" = 30'

PREPARED: VPV

CLIENT: ROWAN TRUST

REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.

FIG. 14

TITLE: PROPOSED TYPE III WELL LOCATION
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PREPARED: VPV	CHECKED:	REVISIONS:	

CLIENT: ROWAN TRUST

REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.

VICINITY MAP

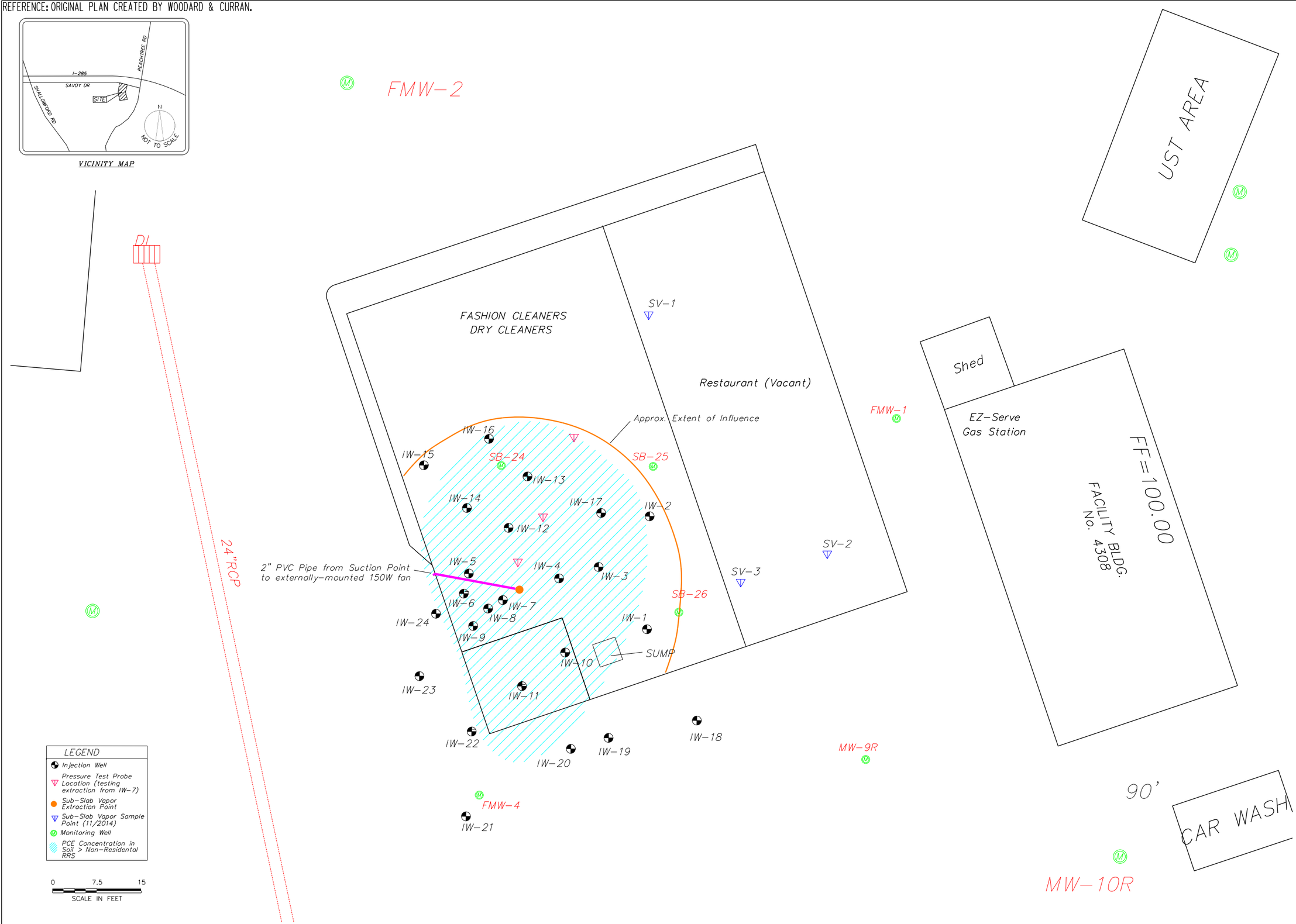

FIG. 15

TITLE: VAPOR MITIGATION TESTING AND SUB-SLAB VAPOR SAMPLE LOCATION - FASHION CARE BUILDING
FASHION CARE/EXECUTIVE CARE VRP SITE
2211 SAVOY DRIVE, CHAMBLEE, GEORGIA

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DATE: 4-2-15

CHECKED:

SCALE: 1" = 15'

PREPARED: VPV

CLIENT: ROWAN TRUST

Image courtesy of Google Earth

REFERENCE: ORIGINAL PLAN CREATED BY WINTER ENVIRONMENTAL.

SCALE: NTS	DATE: 4-2-15	PROJECT NO: 2015.0058.02	TITLE: SUB-SLAB VAPOR SAMPLE LOCATIONS FASHION CARE/EXECUTIVE CARE VRP SITE 2211 SAVOY DRIVE, CHAMBLEE, GEORGIA
PREPARED: VPV	CHECKED:	REVISIONS:	
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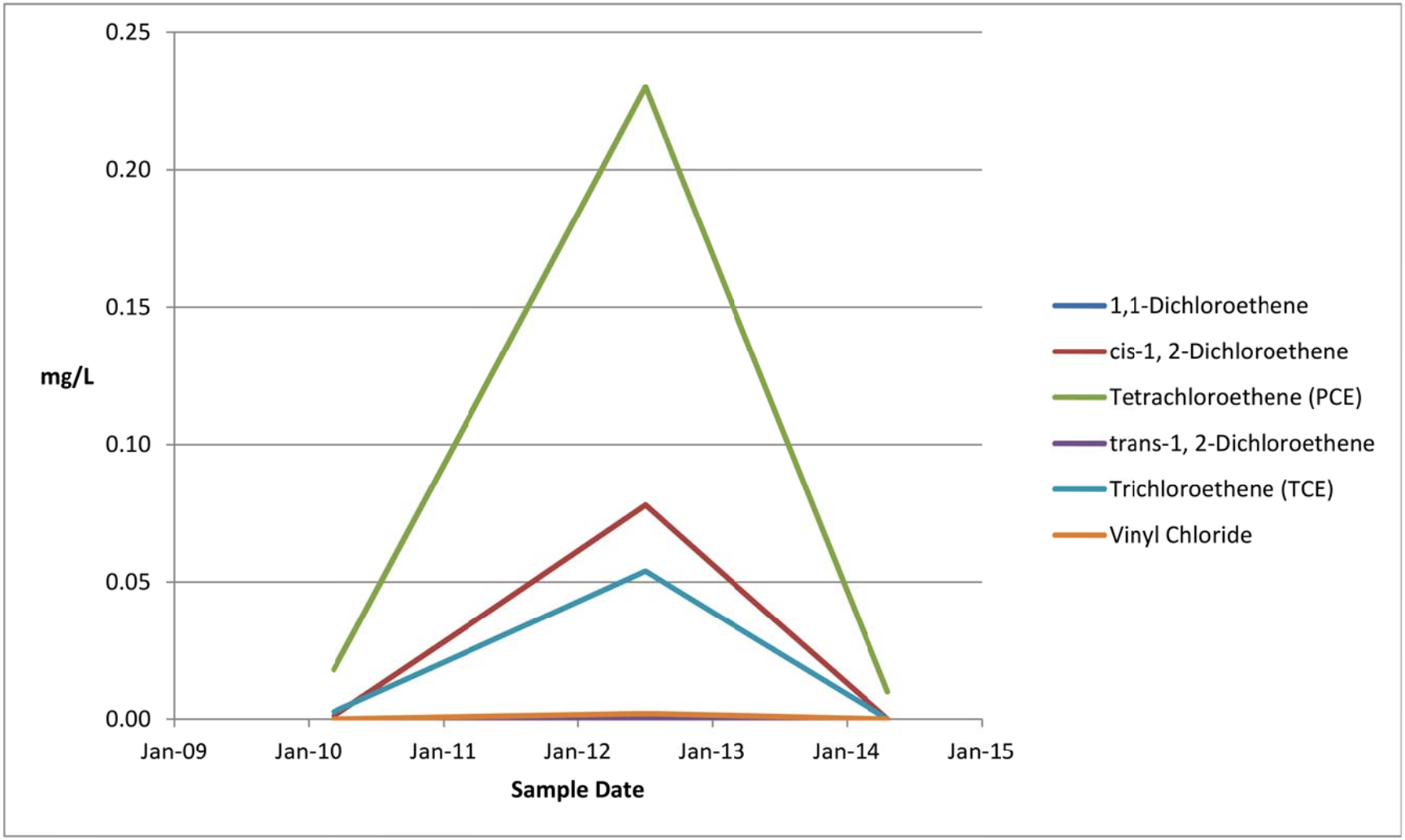
FIG. 16

FMW-13 Constituent Concentrations vs. Time



REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.

SCALE: NTS	DATE: 4-2-15	PROJECT NO: 2015.0058.02	TITLE: FMW-13 CONSTITUENT CONCENTRATION VS. TIME FASHION CARE/EXECUTIVE CARE VRP SITE 2211 SAVOY DRIVE, CHAMBLEE, GEORGIA
PREPARED: VPV	CHECKED:	REVISIONS:	
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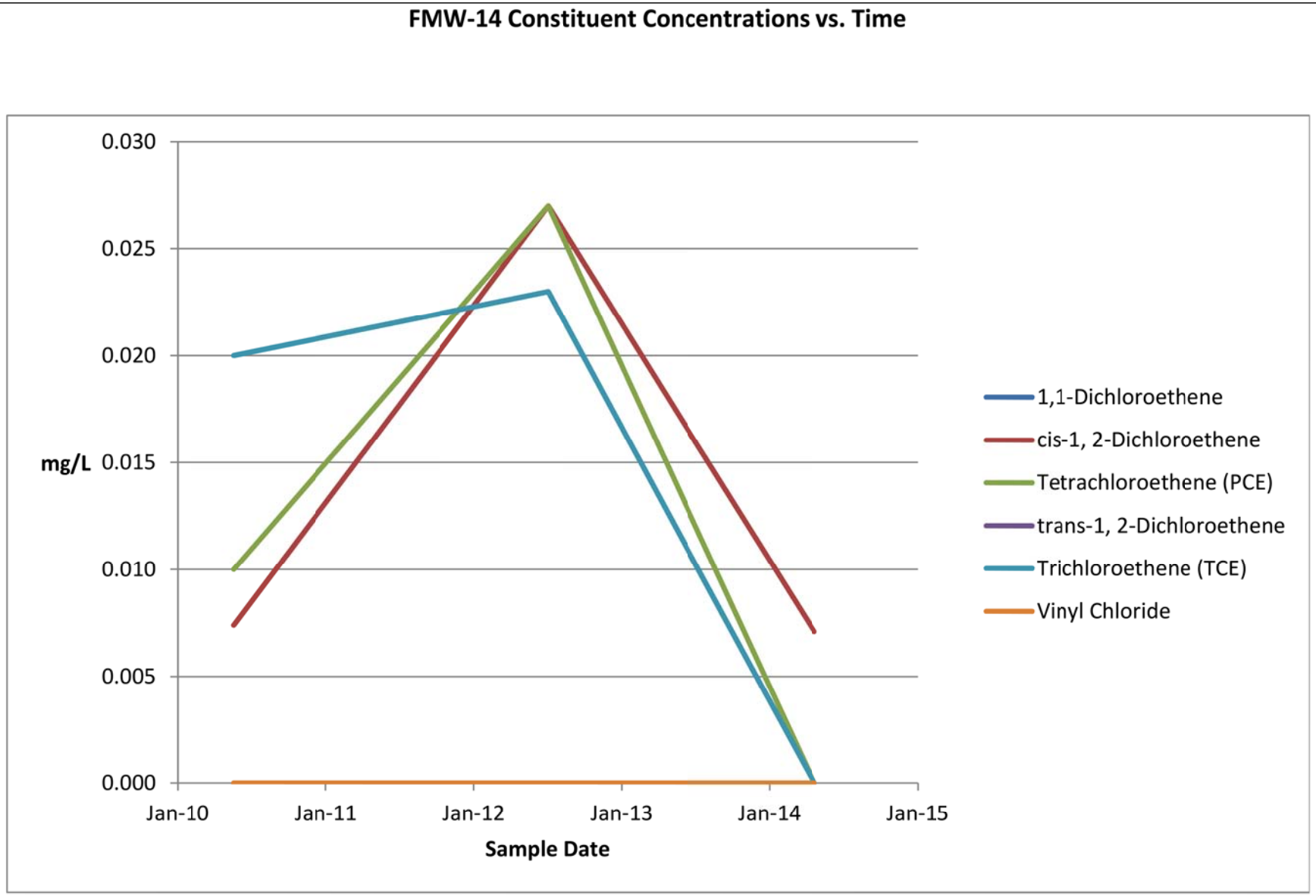
FIG. 17A



REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.

SCALE: NTS	DATE: 4-2-15	PROJECT NO: 2015.0058.02	TITLE: FMW-14 CONSTITUENT CONCENTRATION VS. TIME FASHION CARE/EXECUTIVE CARE VRP SITE 2211 SAVOY DRIVE, CHAMBLEE, GEORGIA
PREPARED: VPV	CHECKED:	REVISIONS:	
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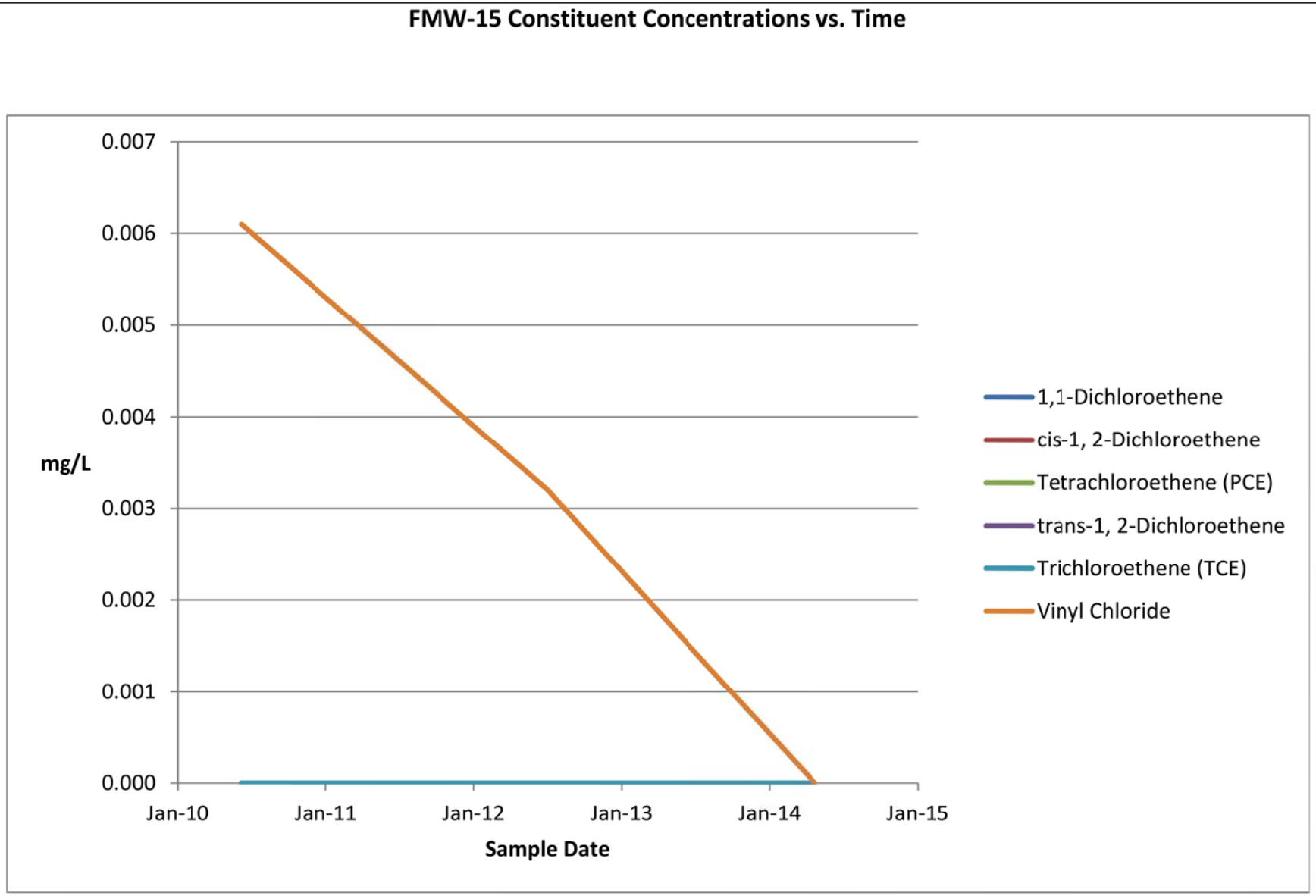
FIG. 17B



REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.

SCALE: NTS	DATE: 4-2-15	PROJECT NO: 2015.0058.02	TITLE: FMW-15 CONSTITUENT CONCENTRATION VS. TIME FASHION CARE/EXECUTIVE CARE VRP SITE 2211 SAVOY DRIVE, CHAMBLEE, GEORGIA
PREPARED: VPV	CHECKED:	REVISIONS:	
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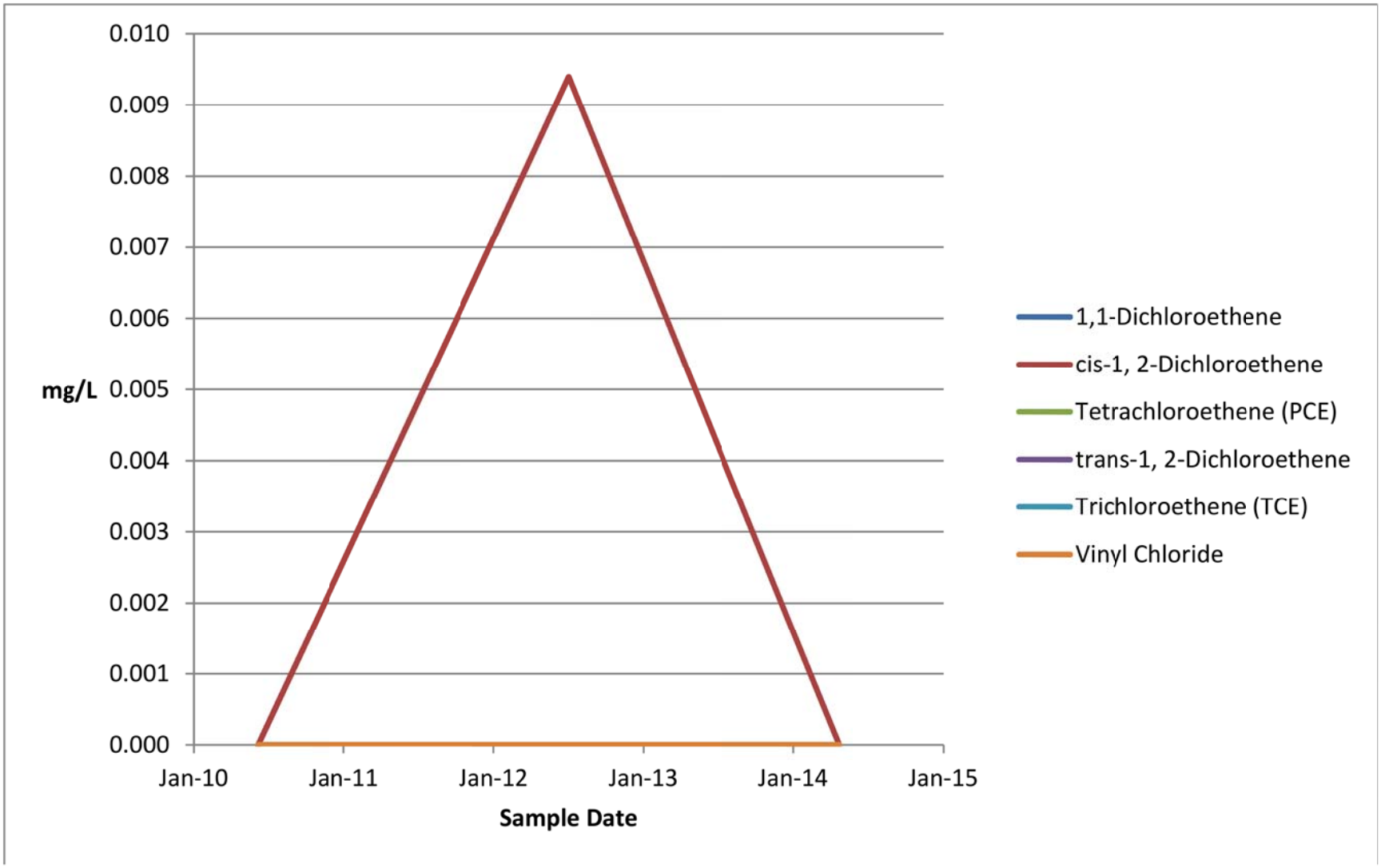
FIG. 17C



REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.

SCALE: NTS	DATE: 4-2-15	PROJECT NO: 2015.0058.02	TITLE: FMW-16 CONSTITUENT CONCENTRATION VS. TIME FASHION CARE/EXECUTIVE CARE VRP SITE 2211 SAVOY DRIVE, CHAMBLEE, GEORGIA
PREPARED: VPV	CHECKED:	REVISIONS:	
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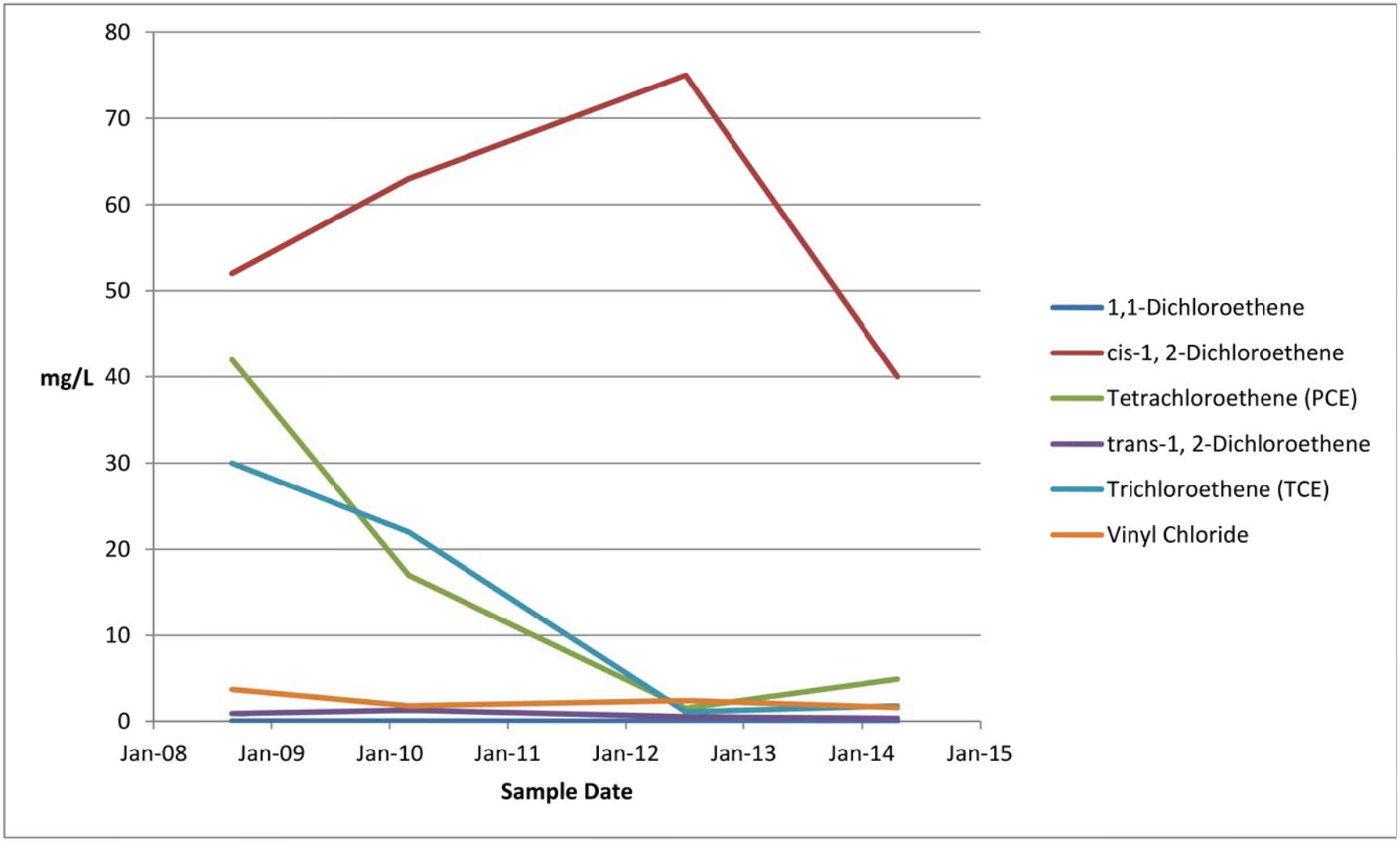
FIG. 17D

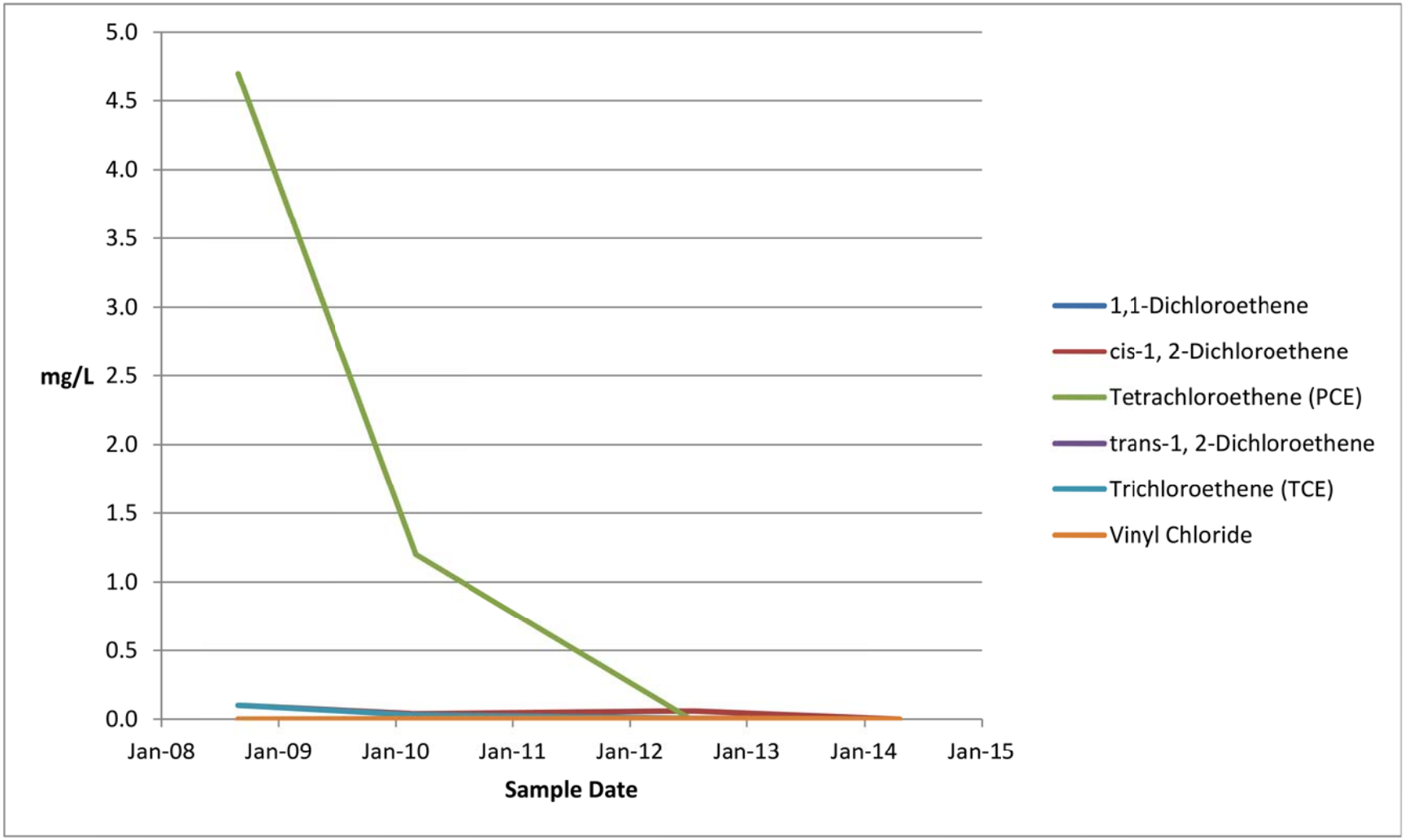


REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.

SCALE: NTS	DATE: 4-2-15	PROJECT NO: 2015.0058.02	TITLE: FMW-4 CONSTITUENT CONCENTRATION VS. TIME FASHION CARE/EXECUTIVE CARE VRP SITE 2211 SAVOY DRIVE, CHAMBLEE, GEORGIA
PREPARED: VPV	CHECKED:	REVISIONS:	
CLIENT: ROWAN TRUST			We're here for you UNITED CONSULTING 625 Holcomb Bridge Road Norcross, Georgia 30071 770-209-0029 Fax 582-2900 www.unitedconsulting.com Copyright © United Consulting Group, Ltd.

FIG. 17E

FMW-5 Constituent Concentrations vs. Time

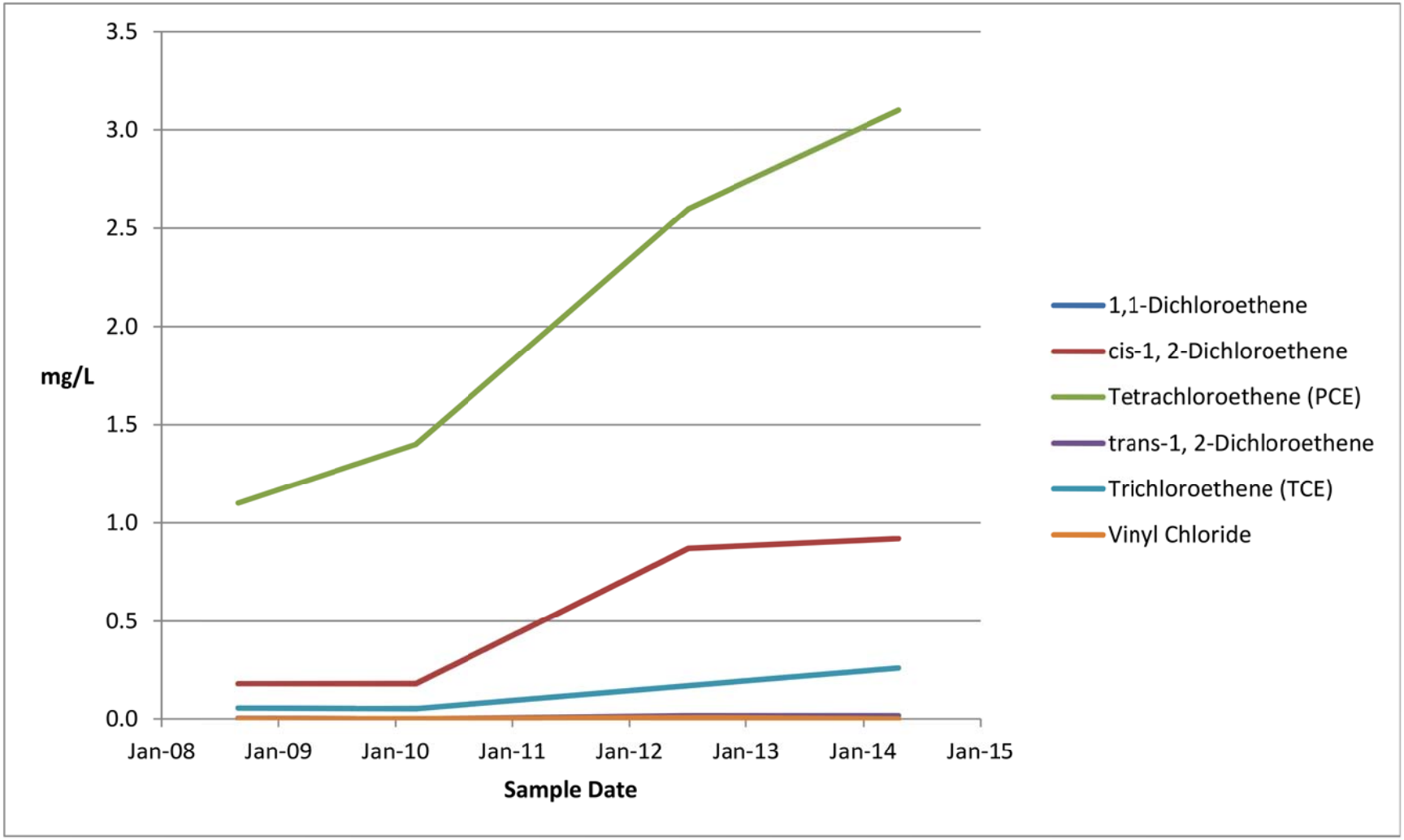


REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.

SCALE: NTS	DATE: 4-2-15	PROJECT NO: 2015.0058.02	TITLE: FMW-5 CONSTITUENT CONCENTRATION VS. TIME FASHION CARE/EXECUTIVE CARE VRP SITE 2211 SAVOY DRIVE, CHAMBLEE, GEORGIA
PREPARED: VPV	CHECKED:	REVISIONS:	
CLIENT: ROWAN TRUST			We're here for you UNITED CONSULTING 625 Holcomb Bridge Road Norcross, Georgia 30071 770-209-0029 Fax 582-2900 www.unitedconsulting.com Copyright © United Consulting Group, Ltd.

FIG. 17F

FMW-6 Constituent Concentrations vs. Time

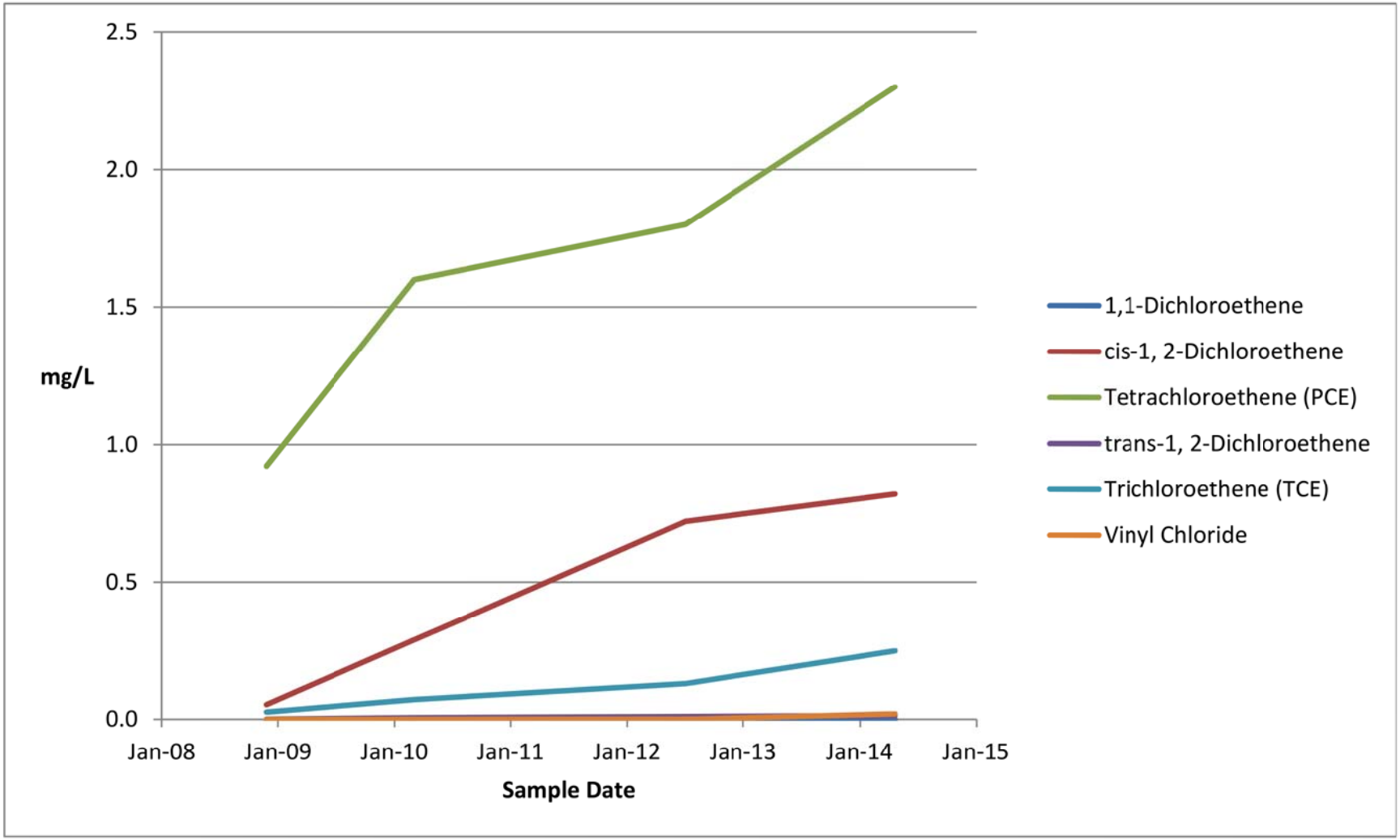


REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.

SCALE: NTS	DATE: 4-2-15	PROJECT NO: 2015.0058.02	TITLE: FMW-6 CONSTITUENT CONCENTRATION VS. TIME FASHION CARE/EXECUTIVE CARE VRP SITE 2211 SAVOY DRIVE, CHAMBLEE, GEORGIA
PREPARED: VPV	CHECKED:	REVISIONS:	
CLIENT: ROWAN TRUST			We're here for you UNITED CONSULTING 625 Holcomb Bridge Road Norcross, Georgia 30071 770-209-0029 Fax 582-2900 www.unitedconsulting.com Copyright © United Consulting Group, Ltd.

FIG. 17G

FMW-9 Constituent Concentrations vs. Time

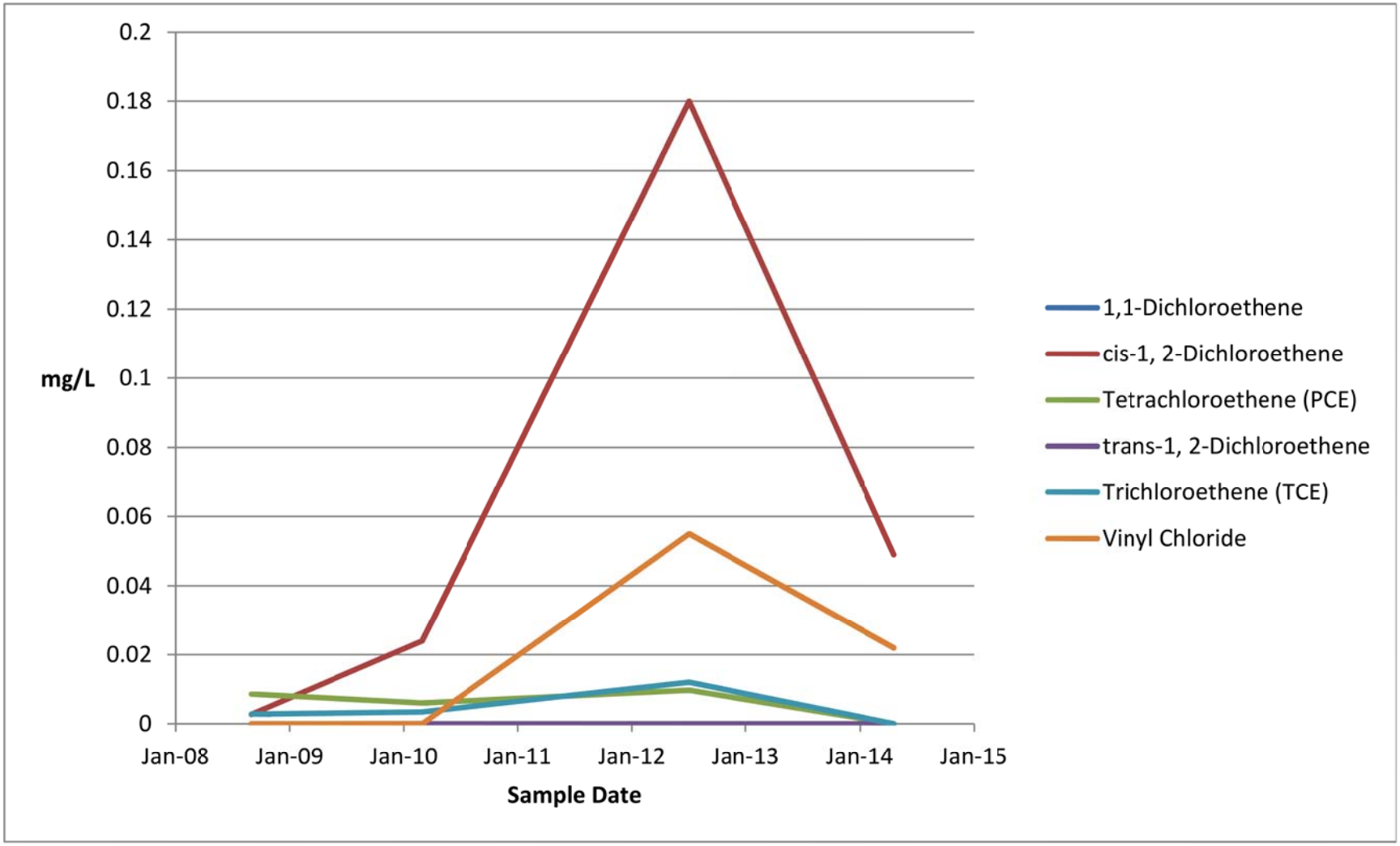


REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.

SCALE: NTS	DATE: 4-2-15	PROJECT NO: 2015.0058.02	TITLE: FMW-9 CONSTITUENT CONCENTRATION VS. TIME FASHION CARE/EXECUTIVE CARE VRP SITE 2211 SAVOY DRIVE, CHAMBLEE, GEORGIA
PREPARED: VPV	CHECKED:	REVISIONS:	
CLIENT: ROWAN TRUST			We're here for you UNITED CONSULTING 625 Holcomb Bridge Road Norcross, Georgia 30071 770-209-0029 Fax 582-2900 www.unitedconsulting.com Copyright © United Consulting Group, Ltd.

FIG. 17H

FMW-1 Constituent Concentrations vs. Time

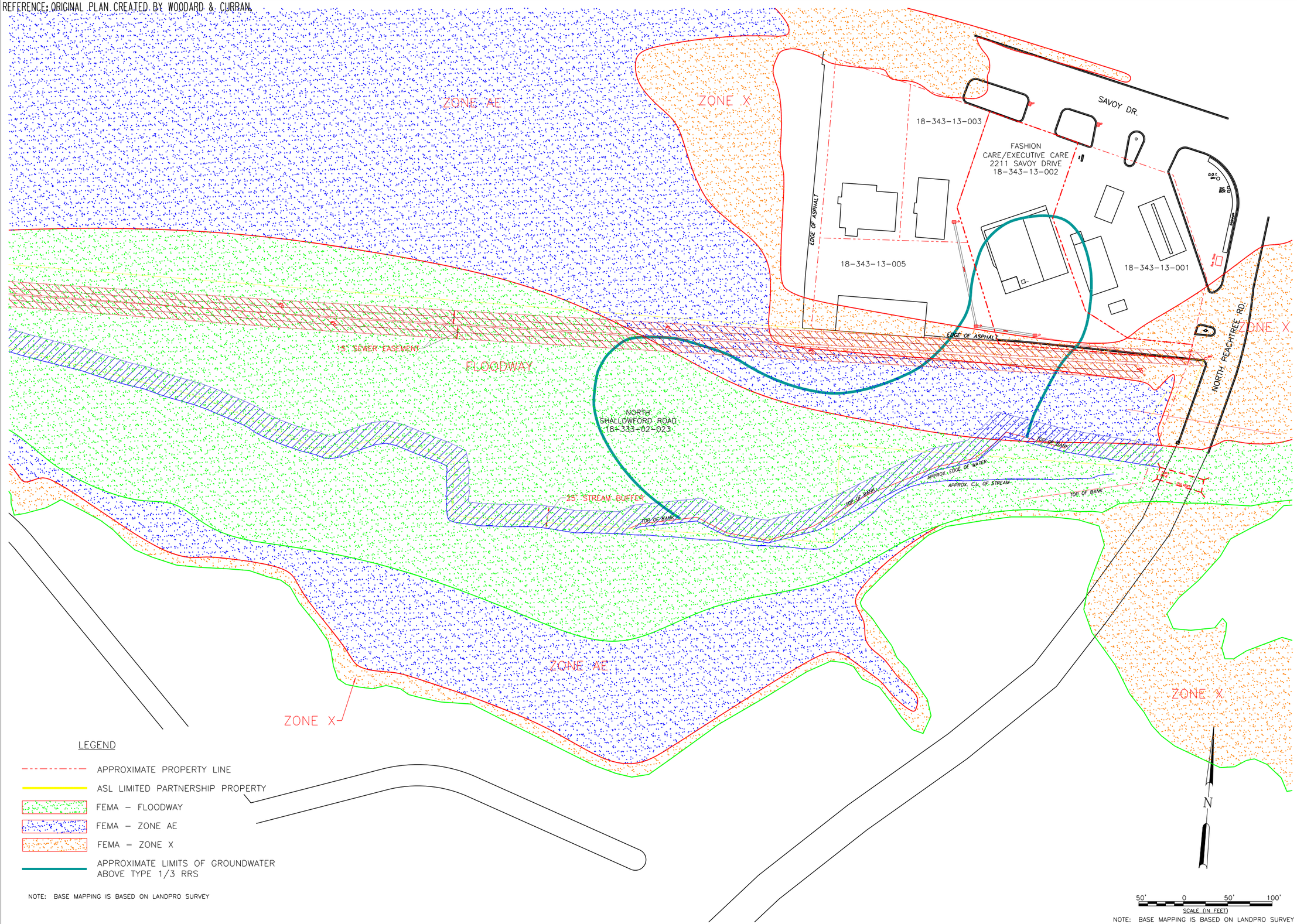


REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.

SCALE: NTS	DATE: 4-2-15	PROJECT NO: 2015.0058.02	TITLE: FMW-1 CONSTITUENT CONCENTRATION VS. TIME FASHION CARE/EXECUTIVE CARE VRP SITE 2211 SAVOY DRIVE, CHAMBLEE, GEORGIA
PREPARED: VPV	CHECKED:	REVISIONS:	
CLIENT: ROWAN TRUST			We're here for you UNITED CONSULTING 625 Holcomb Bridge Road Norcross, Georgia 30071 770-209-0029 Fax 582-2900 www.unitedconsulting.com Copyright © United Consulting Group, Ltd.

FIG. 17I

REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.



LEGEND

- APPROXIMATE PROPERTY LINE
- ASL LIMITED PARTNERSHIP PROPERTY
- FEMA – FLOODWAY
- FEMA – ZONE AE
- FEMA – ZONE X
- APPROXIMATE LIMITS OF GROUNDWATER ABOVE TYPE 1/3 RRS

NOTE: BASE MAPPING IS BASED ON LANDPRO SURVEY

NOTE: BASE MAPPING IS BASED ON LANDPRO SURVEY

FIG. 18

TITLE: ENCUMBRANCES TO DEVELOPMENT
TAX PARCEL 18-333-02-023
FASHION CARE/EXECUTIVE CARE VRP SITE
2211 SAVOY DRIVE, CHAMBLEE, GEORGIA

625 Holcomb Bridge Road
Norcross, Georgia 30071
770-209-0029 Fax 582-2900
www.unitedconsulting.com

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UNITED CONSULTING

PROJECT NO: 2015.0058.02

REVISIONS:

DATE: 4-2-15

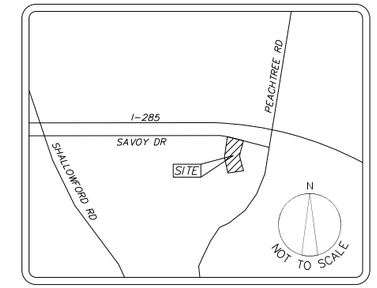
CHECKED:

SCALE: 1" = 100'

PREPARED: VPV

CLIENT: ROWAN TRUST

REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.



VICINITY MAP

LEGEND

APPROXIMATE PROPERTY LINE

N

0 25 50
SCALE IN FEET

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

FIG. 19

TITLE: CORRECTED APPROXIMATE PROPERTY BOUNDARY
FASHION CARE PARCEL 18-343-13-002
FASHION CARE/EXECUTIVE CARE VRP SITE
2211 SAVOY DRIVE, CHAMBLEE, GEORGIA

625 Holcomb Bridge Road
Norcross, Georgia 30071
770-209-0029 Fax 582-2900
www.unitedconsulting.com

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UNITED CONSULTING

PROJECT NO: 2015.0058.02

REVISIONS:

DATE: 4-2-15

CHECKED:

SCALE: 1" = 50'

PREPARED: VPV

CLIENT: ROWAN TRUST

APPENDIX A – EPD CORRESPONDENCE

Georgia Department of Natural Resources
2 Martin Luther King, Jr. Dr., S.E., Suite 1462 East, Atlanta, Georgia 30334-9000
Noel Holcomb, Commissioner
Environmental Protection Division
Carol A. Couch, Ph.D., Director
Phone 404/657-8600 FAX 404/657-0807

January 10, 2008

By Tues. 3/25/08

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Estate of John F. Rowan, Sr.
Ms. Nan Kittrell, Representative
1270 Hestertown Road
Madison, Georgia 30650

Re: HSI # 10786
Fashion Care/Executive Care
Chamblee, Dekalb County, Georgia

Dear Ms. Kittrell:

Because the Estate of John F. Rowan, Sr. is performing corrective action at the above referenced property in accordance with an approved corrective action plan, EPD is hereby reclassifying it from Class II to Class V and designating it as needing corrective action as provided for in Section 391-3-19-.06(6) of the Rules for Hazardous Site Response.

Within 45 days of this letter, you are required by Section 12-8-97(c) of the Hazardous Site Response Act to file an affidavit stating that your property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. This affidavit is to be filed with the clerk of the superior court of each county in which your property or any part thereof lies and recorded in the clerk's deed records pursuant to O.C.G.A. § 44-2-20 [full copy attached].

Section 12-8-97(f) of the Hazardous Site Response Act also requires that you place the following notice in any deed, mortgage, deed to secure debt, lease, rental agreement or other instrument given or caused to be given by the property owner which creates an interest in or grants a use of the property:

> "This property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this property. This notice is provided in compliance with the Georgia Hazardous Site Response Act."

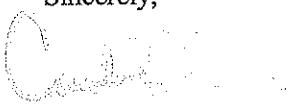
Within 30 days of recording the affidavit, please send a copy of the receipt of the recorded affidavit to the Hazardous Sites Response Program, Georgia Environmental Protection Division, 2 Martin Luther King Jr. Drive, SE, Suite 1462, Atlanta, GA 30334.

Section 12-8-97(f) of the Hazardous Site Response Act provides that the requirements for property record notices at O.C.G.A. §12-8-97(b) & (c) shall be stayed by the filing of a petition for a hearing within 30 days of this letter.

EPD will also publish a notice in *The Champion Newspaper* and the *Atlanta Journal Constitution* no sooner than thirty days from the date of this letter announcing that your property has been designated as needing corrective action.

If you have any questions, please contact Jason Metzger at (404) 657-8600.

Sincerely,



Carol A. Couch, Ph.D.
Director

CAC:jm

Encl.: O.C.G.A. §44-2-20 (2 pages)

File: HSI # 10786
S:\RDRIVE\JMetzger\Fashion Care\class V letter.doc

Georgia Department of Natural Resources
2 Martin Luther King Jr. Drive, S.E., East Tower, Atlanta, Georgia 30334
Noel Holcomb, Commissioner
Carol A. Couch, Director
Environmental Protection Division
(404) 656-4713

Reply To:
Regulatory Support Program
Suite 400
19 Martin Luther King Jr. Drive, S.W.
Atlanta, Georgia 30334
(404) 656-3214

January 23, 2009

Item IV Trust U/W John F. Rowan
Ms. Nan Kittrell, Representative
1270 Hestertown Road
Madison, GA 30650

RE: Underground Injection Control Permit #393 for Injection of Sodium Persulfate, Fashion Care/Executive Care Dry Cleaners Site located in Chamblee, Georgia (HSI #10786).

Dear Ms. Kittrell:

Enclosed is Underground Injection Control (UIC) Permit #393 for the Fashion Care/Executive Care Dry Cleaners site located in Chamblee, Georgia. This UIC permit allows Item IV Trust U/W John F. Rowan to utilize injection of sodium persulfate through twenty (20) injection wells to assist with the remediation of soil and ground water contaminated with chlorinated solvents at this site for up to five (5) years. The UIC permit states two (2) standard conditions and seven (7) additional conditions in the attachment.

If you have any questions about the permit, please contact Mr. Bijan Rahbar, UIC Coordinator, at (404) 656-3229.

Sincerely,

Carol A. Couch
Director

Enclosure

cc: UIC Permit #393 file
Leonard J. Diprima, Winter Environmental
Jason Metzger, EPD-HWMB

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

INJECTION WELL OPERATING PERMIT

PERMIT NUMBER: #393 **DATE ISSUED: January 23, 2009**

FACILITY DATA: **INJECTION WELL TYPE: CLASS V (type 5X26)**

FACILITY: Fashion Care/Executive Care
Dry Cleaners Site
2211 Savoy Road
Chamblee, Georgia
Dekalb County

OPERATOR: Item IV Trust U/W
John F. Rowan
Ms. Nan Kittrell, Representative
1270 Hestertown Road
Madison, GA 30650

LOCATION: Lat: 33° 55' 08.75"N
Long: 84° 17' 52.83"W

EPD-HSI #10786

In accordance with the provisions of the Georgia Rules for Underground Injection Control, Chapter 391-3-6-.13, as amended 2001, this permit is issued for the operation of the herein described injection system. This permit is effective immediately, unless appealed within thirty (30) days after its issuance and is conditioned upon the following:

1) The Permittee's continued compliance with the Georgia Rules for Underground Injection Control, Chapter 391-3-6-.13, the Georgia Rules for Water Quality Control (Revised) and the Georgia Rules for Safe Drinking Water (Revised); and

2) The Permittee's continued compliance with the Permittee's approved injection operation plan that is part of the approved Corrective Action Plan for this site, along with provisions of officially approved plan amendments, if any.

Additional conditions 1 through 7 are attached hereto.

This permit is issued in accordance with the application and supplemental information received on January 8, 2009. The injection operation plan was approved on January 23, 2009, and is based on the statements and supporting data entered herein or attached thereto, all of which are filed with the Environmental Protection Division of the Georgia Department of Natural Resources and hereby made a part of this permit.

This permit is subject to revocation for noncompliance with aforementioned conditions.
This permit expires on **January 23, 2014,** unless previously terminated.

Carol A. Couch, Director, Environmental Protection Division
Georgia Department of Natural Resources

INJECTION WELL OPERATING PERMIT
ADDITIONAL CONDITIONS

1. Permit Conditions.

   a. This permit is not transferable until any new operator shall agree in writing to all permit conditions. Any new operator also shall provide the Environmental Protection Division (Division) with appropriate documentation that they have adequate financial assurances to plug all existing Class V wells.

   b. If Item IV Trust U/W John F. Rowan (Operator) wishes to continue an activity regulated by this permit after the expiration of the permit, the Operator must apply for and obtain a new permit.

   c. The Operator shall report any instances of noncompliance with permit conditions to the Division in writing within five (5) working days of such noncompliance, and shall take all reasonable steps to minimize the impact on the environment resulting from noncompliance with this permit and the Georgia Rules for Underground Injection Control.

   d. The Operator shall notify the Division of any proposed changes to the performance of the sodium persulfate injection system in writing at least thirty (30) days prior to the change.

   e. All reports submitted to the Division shall be signed and stamped by a Georgia Registered Professional Engineer or Professional Geologist.

   f. All analyses shall be performed by a laboratory approved or accredited by EPD in accordance with the Georgia Rules for Commercial Laboratory Accreditation, Chapter 391-3-26.

2. System Parameters.

   a. This permit is issued to the Operator for the purpose of operating a sodium persulfate injection system at the above referenced site to aid in remediation of soil and ground water contaminated with chlorinated solvents.

   b. Number of Class V injection wells: twenty.

   c. Injected fluid: sodium persulfate.

   d. Maximum injection volume per well: 100 gallons of liquid/day (gpd)/well.
      Maximum total system injection volume: 2,000 gpd.

   e. Maximum daily average injection pressure (at well head): gravity.

Additional Conditions, UIC Permit #393, January 23, 2009, cont.

3. Monitoring and Reporting Requirements.

   a. The Operator shall report to the Underground Injection Control Program of the Division the number and exact location of all Class V injection wells it installs or plugs on a quarterly basis. The reports are to be submitted to the UIC Program in accordance with the reporting schedule stipulated by the Hazardous Waste Management Branch.

   b. The Operator shall submit to the Division for its approval, a detailed schematic diagram and location map on any Class V injection well that is different in construction from the specifications contained in the UIC permit application, no later than 45 days prior to installation of the injection well. The Operator cannot install such a well until it receives approval from the Division.

   c. The Operator shall submit to the UIC Program one (1) copy of any report regarding this site that the Operator is required to submit to the Hazardous Waste Management Branch.

   d. The Operator shall submit to the UIC Program an annual report that will contain the following information.

      1. Status of the injection system operation;

      2. Results of any ground-water sampling and analyses;

      3. Results of any soil sampling and analyses;

      4. An evaluation of the plume movement through the ground water, if any;

      5. Comparisons of analyses to determine any changes in pollutant concentrations.

   The annual reports will be provided to the UIC Program in accordance with the schedule stipulated by the Hazardous Waste Management Branch.

4. Emergency Situations.

   a. The Operator is to immediately notify the Division of any emergency situation that affects the injection system and describe the remedial activity that the Operator is utilizing to correct the situation.

   b. The Operator is to immediately notify the Division when the emergency situation ceases to exist.

5. The Operator shall grant the Division permission to enter the facility property to conduct inspections of the injection system.

Additional Conditions, UIC Permit #388, December 19, 2008, cont.

6. The Operator shall maintain a copy of this permit at the facility site.

7. The Operator shall, upon termination of the injection of the sodium persulfate through twenty Class V injection wells at this site, properly plug and abandon all Class V wells constructed on this site in accordance with EPD's *Manual for Groundwater Monitoring* (September 1991) and notify the division within thirty (30) days of such termination and abandonment.

Georgia Department of Natural Resources

2 Martin Luther King, Jr. Dr. S.E., Suite 1462 East, Atlanta, Georgia 30334
Mark Williams, Commissioner
Environmental Protection Division
Judson H. Turner, Director
Land Protection Branch
Mark Smith, Branch Chief

Reply To:
Response and Remediation Program
2 Martin Luther King, Jr. Drive, S.E.
Suite 1462, East Tower
Atlanta, Georgia 30334-9000
Office 404-657-8600 Fax 404-657-0807

February 22, 2012

COPY

VIA E-MAIL AND REGULAR MAIL

John F. Rowan, Sr. Item IV Trust
c/o Catherine Norris
P.O. Box 197
Carmel Valley, California 93924

Re: Voluntary Remediation Program Semi-Annual Status Report, December 2, 2011
Voluntary Remediation Program Semi-Annual Status Report, June 2, 2011
Voluntary Remediation Program Supplemental Report, June 29, 2011
Fashion Care/Executive Care Site, HSI No. 10786
2211 Savoy Drive, Chamblee, Dekalb County, Georgia
Tax Parcel ID Nos. 18-343-13-002, 18-343-13-005, 18-343-13-001, & 18-333-02-023

Dear Ms. Norris:

The Georgia Environmental Protection Division (EPD) has reviewed the above-referenced reports submitted by Winter Environmental in accordance with the Voluntary Remediation Program Act (the Act) for the above-referenced properties. EPD offers the following comments which should be addressed pursuant to the Act:

1. EPD provided comments on the draft Uniform Environmental Covenants (UECs) via email on February 10, 2012. Although we believe these comments are complete, they may change as more information is gained regarding the site and the Act. The comments also assumed that the vapor intrusion evaluations are correct and that current concentrations will not be exceeded in the future. The comments below and the results of future modeling may initiate additional changes to the UECs.

2. The monitoring wells installed during the investigation and remediation of the former EZ Serve site (UST Facility ID No. 09000341) have been abandoned as described in the August 30, 2011 Completion Report for the facility. Many of those wells served as delineation wells up/side-gradient of the Fashion Care site, and do not need to be replaced. However, certain wells, such as MW-23D, provided important characterization and monitoring of the plume and will be necessary for model verification. In the next progress report, please include a schedule for replacement of MW-23D (provide a figure showing new location if appropriate) and any other wells needed to verify the model.

3. In future summaries of professional service hours billed, please separate the hours billed by the Professional Engineer/Geologist overseeing the project from support staff hours.

Vapor Intrusion Analysis

4. Section 3.4 of the December 2011 report notes that the vapor mitigation system for Parcel 18-343-13-002 has been designed and will be installed in 2012. The progress report that contains the as-built should also explain the rationale behind the design including any

testing, discuss the building parameters that will allow this design to function properly, and demonstrate that the restaurant space is also protected.

5. The toxicity and chemical-specific parameter values were not updated prior to running the Johnson & Ettinger model for some of the volatile substances in soil gas. These values should be consistent with the values provided in the most current version of the Regional Screening Levels Table (RSLT) available prior to submittal of the report [e.g., tetrachloroethylene (RfC), trichloroethylene (RfC and IUR), acetone (RfC), chloroform (RfC), etc.]. Parcel 18-222-02-023 does not require re-analysis since the results already recommend vapor intrusion remedial measures.

6. The summary table of parameters used in the vapor intrusion analysis contains an inadequate exposure frequency (EF) value of 30 days/yr. However, the models were run using an appropriate EF of 350 days/yr. Additionally, the input parameter for temperature designated in the user guidance for the southeastern region of the United States is 19.4°C. This is the recommended input value based on the average temperature of shallow groundwater for the southeastern region. This does not significantly impact the model results, but should be revised if the model is rerun.

Type 5 RRS Calculations

The Type 5 risk reduction standards (RRS) presented in Table 1 of Appendix D of the December 2011 report are hereby approved with the following revisions:

7. The toxicity values listed in Appendix D for cis-1,2-dichloroethylene (cis-1,2-DCE) and trichloroethylene (TCE) have been updated in the most current version of the RSLT. The toxicity values for tetrachloroethene (PCE) were updated in IRIS on February 10, 2012. The updated values are provided below for your convenience.

Regulated Substance	**RfD_o (mg/kg-d)**	**RfD_i (mg/kg-d)**	**SF_o $(mg/kg\text{-}d)^{-1}$**	**SF_i $(mg/kg\text{-}d)^{-1}$**
cis-1,2-DCE	2.0E-03 (IRIS)	NA	NA	NA
TCE	5.0E-04 (IRIS)	5.7E-04 (IRIS)	4.6E-02 (IRIS)	1.4E-02 (IRIS)
PCE	6.0E-03 (IRIS)	1.1E-02 (IRIS)	2.1E-03 (IRIS)	9.1E-04 (IRIS)

NA – No toxicity value available in RSLT

The resulting Type 5 RRS for the construction worker and utility worker are as follows:

Regulated Substance	**Construction Worker - Soil (mg/kg)**	**Utility Worker - Soil (mg/kg)**	**Construction Worker – Ground water (mg/L)**	**Utility Worker – Groundwater (mg/L)**
cis-1,2-DCE	619	4420	2.6	18
TCE	6.8	49	0.006	0.041
PCE	142	1015	0.12	0.82

8. The Type 5 soil RRS for 1,1-dichloroethene are incorrect even though the method and exposure assumptions used were correct. EPD derived a Type 5 soil RRS of 253 and 1,805 mg/kg for the construction worker and utility worker, respectively.

9. Minor changes have been made to the chemical-specific parameters for the following regulated substances. It should be noted that this does not impact any of the calculated volatilization factors in Appendix D, Table 4.

   - 1,1-Dichloroethene: Dia – 0.0863 cm^2/s; Henry's Law Constant– 0.0261 atm-m^3/mol
   - cis-1,2-Dichloroethene: Dia – 0.0884 cm^2/s; Koc – 39.6 L/kg

The John F. Rowan, Sr. Item IV Trust (Trust) must address these comments to EPD's satisfaction in order to demonstrate compliance with the provisions, purposes, standards and policies of the Act. EPD may, at its sole discretion, review and comment on documents submitted by the Trust. However, failure of EPD to respond to a submittal within any timeframe does not relieve the Trust from complying with the provisions, purposes, standards and policies of the Act.

Please address the above comments in subsequent semi-annual progress reports. EPD anticipates receipt of the next report by June 2, 2012. If you have any questions, please contact Jason Metzger at (404) 463-0530.

Sincerely,

David Brownlee
Acting Program Manager
Response and Remediation Program

c: Leonard Diprima, Jr., P.G., Winter Environmental
✓H.A. Rowan, Southern Automatic Company
✓Marvin Hewatt, Georgia-Alabama Commercial Investments, LLC
✓ASL Limited Partnership

File: HSI 10786
S:\RDRIVE\JMetzger\Fashion Care\FC VRP progress rpt1 letter.doc

DECKER, HALLMAN, BARBER & BRIGGS
A PROFESSIONAL CORPORATION
ATTORNEYS AT LAW

F. EDWIN HALLMAN, JR.
(404) 588-2525 Direct
e-mail: feh@d-h.com

260 PEACHTREE STREET, N.W.
SUITE 1700
ATLANTA, GEORGIA 30303
(404) 522-1500 MAIN
(404) 577-9149 FACSIMILE

March 24, 2004

Mr. Tim Cash
Hazardous Sites Response Program
Georgia Environmental Protection Division
2 Martin Luther King Drive SE
Suite 1462
Atlanta, Georgia 30334

Richard Swanson, Esq.
Underground Storage Tank Management Program
Georgia Environmental Protection Division
4244 International Parkway
Suite 104
Atlanta, Georgia 30354

Re: Estate of John F. Rowan
HSRA Release Notification
Savoy Drive and North Peachtree Street
DHBB File No. 2818/001

Dear Messrs. Cash and Swanson:

Please be advised that we represent the Estate of Mr. John F. Rowan, the owner of the property which is the subject of this letter. The subject property is a dry cleaning facility located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia ("the Site"). The purpose of this letter is to report a release of hazardous substances pursuant to the Rules of the Department of Natural Resources, Chapter 391-3-19 ("the Rules"). This letter is also to inform the Environmental Protection Division ("EPD") that the release in question is subsumed by and co-mingled with a reported release from an active underground storage tank site.

2818-001\RAW\Corres\4522.wpd

Distances noted do not appear correct.

The Site was formerly owned by Business Associates, Inc., a Georgia corporation which was owned by Mr. John F. Rowan. Sadly, Mr. Rowan has passed away recently. The Executor of the Rowan Estate is Ms. Nan Kittrell. The Site is located approximately 100 feet southwest of the intersection of Savoy Drive and North Peachtree Road. Improvements on the Site consist of an approximately 30 year-old concrete block building and asphalt paved parking and driving surfaces. The building is approximately 5,700 square feet in size and is currently occupied by the dry cleaning business known as Executive Cleaners, a/k/a Fashion Care, and a restaurant known as Sun City. The dry cleaning facility located on the Site is a drop off location only. The Site is bordered on the north by the Savoy Drive right-of-way, on the south by overgrown fields, on the east by a retail gas station, and on the west by a restaurant and other commercial development.

In May of 2002, Branch Banking & Trust Company ("BB&T") hired Contour Engineering, Inc. ("Contour") to perform an initial Environmental Transaction Screen in anticipation of a possible purchase of the Site. Enclosed herewith is a copy of the Transaction Screen. To complete this Transaction Screen, Contour contracted with Environmental Data Resources ("EDR") to perform a review of available electronic databases of known environmental conditions for the Site vicinity. Several recognized environmental conditions were identified near the Site from the EDR report. EDR also performed a database search to determine the presence of any drinking water wells within one mile of the Site. No drinking water wells were identified in this search radius.

Several potential environmental sources of concern were located in close proximity to the Site. Most notably, Sunshine Cleaners, EPA ID Number GAD981233133, a former dry cleaning facility, was located approximately 100 feet southeast of the Site. Based upon surface topography, the groundwater flow from the Sunshine Cleaners' facility is westerly, toward the Site.

Is this direction & distance correct?

Adjacent to the Site is a retail petroleum fueling facility named E-Z Serve #8102 ("E-Z Serve"), EPD Facility ID #9000341. E-Z Serve is the source of a known release of petroleum contamination to the environment. The owner of the E-Z Serve location has acknowledged responsibility for the cleanup of this release in a Corrective Action Agreement ("CAA") entered into with the EPD in February, 2002. Enclosed is a copy of the CAA.

The closest potential environmental receptor of concern identified in the EDR report is the First Baptist Church of Atlanta, located approximately 350 feet northwest of the Site. This church, Facility Number 9044208, formerly contained two steel USTs with approximately 10,000 gallon capacity, which were used for the storage of petroleum products. The source of any contamination found on the church property is likely to be from these USTs.

Because of these identified sources of potential environmental concern, BB&T hired Contour to perform a limited Phase II Site Investigation ("the Phase II") on the Site. Enclosed herewith is a copy of the Phase II.

Contour collected two discrete samples from one direct-push soil boring and three direct push-groundwater samples in three separate locations. In addition, an existing groundwater monitoring well located on the Site was sampled. This well is associated with the remediation efforts taking place as a result of the E-Z Serve release. All samples were submitted for volatile organic compound ("VOC") analysis, EPA method 8260B.

The soil sample collected from soil boring one at 4-8 feet below ground surface ("bgs") contained concentrations of benzene, cis 1,2-dichloroethene, napthaline, styrene, tetrachloroethene, and toluene. See table entitled Soil Analytical Results, page 6 of the Phase II. The soil sample collected from soil boring one at 4-8 feet bgs contained detectable concentrations of VOCs, including vinyl chloride (57 µg/kg). Appendix One of the Rules lists the soil concentration that triggers notification for vinyl chloride to be 40 µg/kg.

The groundwater samples collected on the Site contained reportable levels of benzene, tetrachloroethene, trichloroethene, trans 1,2-dichloroethene, and vinyl chloride. See table entitled Summary of Groundwater Analytical Data, page 9 of the Phase II. Pursuant to the Rules, we are submitting this Release Notification to the EPD based upon the sampling results in the Phase II.

As part of the remediation of the adjacent E-Z Serve property, a groundwater monitoring well was installed on the Site. Business Associates, Inc. granted access to E-Z Serve's consultant, Handex of Georgia, Inc. ("Handex"), to enter the Site and install the monitoring well in an access agreement dated July 6, 2001. Samples collected from this

monitoring well contained high concentrations of petroleum hydrocarbons, along with chlorinated solvents. Neither our client, nor the operators of the Site, have ever utilized any petroleum hydrocarbons in business operations.

We have reviewed the proposed Corrective Action Plan - Part B ("CAP-B") for the E-Z Serve property prepared by Handex. Figure 15 of the CAP-B indicates that the groundwater beneath the Site flows from the E-Z Serve property directly onto our client's property. Enclosed herewith is a copy of the proposed CAP-B.

There is no evidence in the record that the Rowan Estate is responsible for any release of chlorinated solvents. Determination of the source of the solvent release will be extremely difficult because of the close proximity of known releases. Implementation of the CAP-B for the E-Z Serve property will adequately remediate any chlorinated solvents. Because of the high concentrations of petroleum hydrocarbons in the groundwater on the Site and, with the exception of one sample, the low concentrations of chlorinated solvents detected in the groundwater samples, any action taken to remove the petroleum contamination will concurrently remove the solvent contamination.

The costs for cleanup of the E-Z Serve property are being reimbursed by the Georgia Underground Storage Tank Trust Fund (the "GUST Fund"). We have been informed by Handex that the former owner of E-Z Serve has declared bankruptcy. We reviewed the EPD files, which indicate the new owner of the E-Z Serve property and USTs is Metro Atlanta Commercial Properties, LLC. The new owner has indicated on the notification documents that it meets all the requirements for financial responsibility and qualifications for the GUST Fund. Metro Atlanta Commercial Properties, LLC has acknowledged its responsibility to continue the remediation efforts begun by E-Z Serve by its acceptance of ownership of the USTs.

We request that you make a collective determination that no action is required under the Hazardous Site Response Act to remediate the contamination on the Site, because the Site will, by necessity, be remediated according to applicable UST regulations.

We represent another client which is similarly situated as E-Z Serve is in this situation (Happy Store 365, Facility ID #0600750). In that situation, an adjacent dry-cleaning facility released chlorinated solvents into the groundwater. This solvent plume

mixed with a petroleum release from our client's adjacent property. EPD elected not to take any action under HSRA to address the solvent contamination because the active petroleum remediation being undertaken by the adjacent landowner, by necessity, is remediating the chlorinated solvent contaminates. I will be pleased to discuss the parallels of these situations with you at your convenience. We will also be pleased to attend a meeting to discuss the overall situation with the two divisions of the EPD which you represent.

Please confirm your concurrence with our analysis. We are confident that EPD will work diligently with the new responsible party to ensure that this matter is resolved as efficiently as possible.

Sincerely,

Ed Hallman

F. Edwin Hallman, Jr.

For DECKER, HALLMAN, BARBER & BRIGGS

FEHjr:raw
Enclosures

Transition Screen by Contour Engineering
Corrective Action Agreement
Phase II Site Investigation
Corrective Action Plan - Part B

c: Ms. Hannah R. Kittrell

Georgia Department of Natural Resources
2 MLK, Jr., DR., S.E., Atlanta, Georgia 30334
Lonice C. Barrett, Commissioner
Environmental Protection Division
Carol A. Couch, PhD, Director
404/656-2833 404/656-7802

May 19, 2004

MEMORANDUM

TO: David Brownlee

THRU: Dave Yardumian

FROM: Bob Pierce

RE: Fashion Care/Executive Care Property Field Inspection Report.

Date of Inspection: May 19, 2004

Accompanied by: Martha Pierce

Arrived at the Fashion Care property at 9:30 AM. The property is located at 2211 Savoy Drive, Chamblee, Dekalb County, Georgia. The name on the facility is now Clothing Care Cleaners. The following bound the site:

North:	Savoy Drive
South:	Nancy Creek
East:	North Peachtree Road
West:	China Express and Mad Italian Restaurants plus various businesses.

Site Characteristics

The site had no fencing around it. The company building was surrounded by an asphalt-paved parking lot. The asphalt was observed to be in good condition with only some minor cracks. The monitoring wells in Figure 2 (Site Plan) were observed to be at the locations marked in the Figure. All wells were flush mount. The Shell Gas Station on the figure is now a Mobile Station and the Texaco Gas Station is now a Shell Station.

Residential Property

The property is surrounded predominately by businesses and no residential property was observed within 300 feet of the site.

Nearest Well

A well survey revealed no well within 3 miles of the site. This area of north Dekalb County and adjacent Fulton County is highly developed with new strip malls, full size shopping malls (e.g., Perimeter Mall), high density and high-end homes, medical facilities (e.g., St Joseph's Medical Center), churches, schools and other new development. We conducted a house-to-house well survey in the vicinity of the reported J.S. Wooten domestic well location near the intersection of Tilly Mill and Womack Roads but could find no trace of it. Most of this area is occupied by Georgia Perimeter College (Dunwoody Campus), a private school (The Weber School) and new construction. We spoke with a Dekalb County building inspector working in the area and she knew of no wells in the area. We all concluded that if there had been a well in the area it had been removed by development. The inspector stated that all residences in the area were on Dekalb County water.

Reply To:
Response and Remediation Program
2 Martin Luther King, Jr. Drive, S.E.
Suite 1054, East Tower
Atlanta, Georgia 30334-9000
Office 404/657-8600 Fax 404-657-0807

Georgia Department of Natural Resources
Environmental Protection Division

2 Martin Luther King, Jr. Dr., Suite 1456, Atlanta, Georgia 30334-9000
Judson H. Turner, Director
Phone (404) 656-4713

May 30, 2014

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

John F. Rowan, Sr. Item IV Trust
c/o Catherine Norris
P.O. Box 197
Carmel Valley, California 93924

Re: Executed Uniform Environmental Covenants
Fashion Care/Executive Care Site, HSI No. 10786
2211 Savoy Drive
Tax Parcel ID No. 18-343-13-002
4306 N. Peachtree Road
Tax Parcel ID No. 18-343-13-005
Chamblee, DeKalb County, Georgia

Dear Ms. Norris:

The Georgia Environmental Protection Division (EPD) has approved the Uniform Environmental Covenants (UEC) submitted for the above-referenced properties, which are part of the Fashion Care/Executive Care Site. The fully executed originals are enclosed. Within thirty (30) days of receipt, these covenants are to be filed with the clerk of the Superior Court of DeKalb County and recorded in the clerk's deed records pursuant to O.C.G.A. 44-16-8.

Within thirty (30) days of recording, please submit a file-stamped copy of each covenant to EPD. The submittal should include a certification that the parties named in Item 11 of each covenant have also been sent a file-stamped copy. If you have any questions, please contact Robin Futch, PG, PMP of the Response and Remediation Program at (404) 657-8686.

Sincerely,

Judson H. Turner
Director

Encl: Fully executed UECs – Parcel ID Nos. 18-343-13-002 and 18-343-13-005

c: Leonard Diprima, Jr., P.G., Woodard & Curran (w/o enclosures)
H.A. Rowan, Southern Automatic Company (w/ enclosures)
Joel Aultman, ASL Limited Partnership (w/o enclosures)

File: HSI# 10786
S:\RDRIVE\RFutch\HSI Sites\10786-Fashion Care\Fashion Care_Executed UECs cover letter.docx

Georgia Department of Natural Resources
2 Martin Luther King, Jr. Drive, SE, Suite 1462 East, Atlanta, Georgia 30334
Noel Holcomb, Commissioner
Environmental Protection Division
Carol A. Couch, Ph.D., Director
Hazardous Waste Management Branch
404-657-8600

June 30, 2006

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Estate of John F. Rowan, Sr.
c/o Hannah R. Kittrell, Executor
1270 Hestertown Road
Madison, Georgia 30650-2728

Re: Fashion Care/Executive Care, HSI No. 10786
2211 Savoy Drive, Atlanta, Dekalb County, GA
Compliance Status Report Call-in

Dear Ms. Kittrell:

As a responsible party for the above referenced site, Section 391-3-19-.06(3)(a) of the Rules for Hazardous Site Response (Rules) requires that you submit a compliance status report and a compliance status certification that documents the current status of the site with regard to the risk reduction standards of Section 391-3-19-.07 of the Rules. A copy of those Rules is enclosed.

Section 391-3-19-.06(3)(a) of the Rules provides that the compliance status report and compliance status certification shall be submitted in accordance with a schedule to be determined by the Director. The Georgia Environmental Protection Division (EPD) requests that you submit the compliance status report and certification for the above referenced site by January 5, 2007. We are also requesting that all documents more than 25 pages in length be submitted as one paper copy, and two compact disc copies in Portable Document Format (PDF). Please find enclosed more information concerning the required format for compact disc copies of documents.

In lieu of submitting a compliance status report by January 5, 2007 that meets all of the requirements set forth in Section 391-3-19-.06(3) of the Rules, you have the option to first perform corrective action to bring the site into compliance with the risk reduction standards and then submit a final compliance status report during or following completion of corrective action. If you would like to pursue this option, please schedule a meeting with us by September 5, 2006 to discuss the submittal of a corrective action plan that would be submitted by April 5, 2007. The corrective action plan would have to:

- Describe the actions that will be taken to bring the site into compliance with the risk reduction standards and a schedule for implementation and completion of corrective action;
- Provide a description of all sources of releases of regulated substances as required by Section 391-3-19-.06(3)(b)(1) of the Rules;
- Define the extent of regulated substances in impacted media that exceed the risk reduction standards as provided for in Section 391-3-19-.06(3) of the Rules. Delineation of releases to background levels would not be necessary until submittal of the compliance status report;
- Describe any human or environmental receptors who may have been or could be potentially exposed to a release;

- Describe all properties which are part of the site including the address and location of the properties, its legal description, and the property owner's name, address, and telephone number;
- Include a summary of any previous actions taken to eliminate, control, or minimize any potential risk at the site; and
- Describe actions that will be taken to complete a compliance status report and a schedule for submittal.

Please be informed that under Section 391-3-19-.06(6)(c) of the Rules, the Director may designate this site as having a known release needing corrective action if you fail to submit the compliance status report or corrective action plan as requested by this letter. Please send us your written reply by September 5, 2006 and state whether you intend to submit the compliance status report or the corrective action plan by the date requested. If you do not intend to submit the compliance status report or the corrective action plan by the date requested, please state your basis for that decision. This site may also be designated as needing corrective action if you fail to respond by September 5, 2006, or if you respond by September 5, 2006 but fail to agree to submit the compliance status report by January 5, 2007 or the corrective action plan by April 5, 2007.

According to Section O.C.G.A. 12-8-92 of the Hazardous Site Response Act and Section 391-3-19-.02 of the Rules, a "responsible party" means: (a) the current owner or operator of a facility; (b) any person who at the time of disposal of a regulated substance owned or operated the facility where disposal occurred; (c) any person who arranged for the disposal or treatment of a regulated substance at the facility where disposal occurred or who arranged for transportation to the facility; and (d) any person who accepted a regulated substance for transport to said facility.

If you believe the EPD has incorrectly identified you as a responsible party at this site, please provide sufficient documentation to support that claim. In addition, I am also requesting that you help us identify any other persons or parties whom you believe to be described by Items (a) through (d) of the previous paragraph, to describe the nature of their relationship with the site, and to provide evidence of that relationship. EPD's effectiveness in expanding the pool of responsible parties will depend on our ability to communicate with those parties; therefore, your assistance in obtaining current mailing addresses and phone numbers for appropriate contact persons is requested. We encourage responsible parties to collaborate to expedite and simplify the investigation and cleanup of this site. Therefore, a list of parties that have received a similar letter from EPD is attached.

If you have any questions or comments, please contact Jason Metzger at 404-657-8600.

Sincerely,

Jane Hendricks

Jane Hendricks
Unit Coordinator
Hazardous Sites Response Program

c: F. Edwin Hallman, Jr., Decker, Hallman, Barber& Briggs

Enclosures: Rules for Hazardous Sites Response
Document Submittal Format
List of Identified Responsible Parties For HSI No. 10786

File: HSI No. 10786
S:\RDRIVE\JMetzger\Fashion Care\Call-in Letters\Rowan Estate CSR Call-in.doc

Fashion Care/Executive Care - HSI No. 10786
2211 Savoy Drive, Atlanta, Dekalb County
Identified Responsible Parties Issued a CSR Call-in Letter
Dated June 30, 2006

The Estate of John F. Rowan, Sr.
1270 Hestertown Road
Madison, Georgia 30650-2728
Attn: Hannah R. Kittrell - Executor

Business Associates, Inc.
1290 Hestertown Road
Madison, Georgia 30650-2728
Attn: Hannah R. Kittrell

CJH Capital Corporation
1270 Hestertown Road
Madison, Georgia 30650-2728
Attn: Hannah R. Kittrell

ES Clothing Care, Inc.
2211 Savoy Drive
Chamblee, Georgia 30340
Attn: Eul Hwan Kim

Clothes Doctor, Inc.
3300 Buckeye Road
Suite 510
Atlanta, Georgia 30341-4241
Attn: Yun Kyoung Choi

Fashion Care, Inc.
1465 Northside Drive, NW
Suite 118
Atlanta, Georgia 30318-4220
Attn: Ron Patrie

Eul Hwan Kim
2211 Savoy Drive
Chamblee, Georgia 30340

Yun Kyoung Choi
3300 Buckeye Road
Suite 510
Atlanta, Georgia 30341-4241

Sung D. Chung
925 Old Park Court
Roswell, Georgia 30075

Ron Patrie
1465 Northside Drive, NW
Suite 118
Atlanta, Georgia 30318-4220

Hazardous Sites Response Program
Document Submittal Format

All documents more than 25 pages in length shall be submitted as one paper copy and two compact disc (CD) copies with the documents in searchable (i.e., tagged) Portable Document Format (PDF). A signed certification page must be included in the CD copies. The certification page states that the electronic copy is complete, identical to the paper copy, and virus free.

All documents currently in electronic format should be converted into the searchable PDF format. All documents not available electronically and pages that contain signatures, initials, or other information not in the electronic copy should be scanned into a searchable PDF format including the signed certification page. Scanning should be at 200 dpi with any documents requiring color being scanned in color.

The document should be broken down into multiple searchable PDF files along the following guidelines with the file name referenced in the table of content.

Table of Contents
Signature / Certification pages
Main body of document
Each Attachment (Appendices, Tables, Figures, Reports, etc.)

The CDs shall be enclosed in a jewel case. The CD shall be labeled with the following information written on the CD in indelible ink or affixed to the CD with an adhesive CD label.

Site Name
Site Address
HSI Number
City
County
Document Name
Document Date

Georgia Department of Natural Resources

2 Martin Luther King, Jr. Dr., Suite 1462 East, Atlanta, Georgia 30334
Lonice C. Barrett, Commissioner
Environmental Protection Division
Carol A. Couch, Ph.D., Director
404/657-8600

July 29, 2004

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Nan Kittrell, Executor
The Estate of John F. Rowan
1270 Hestertown Road
Madison, GA 30650

RE: Listing of site on Hazardous Site Inventory
Fashion Care/Executive Care
Chamblee, Georgia
HSI Site Number: 10786

Dear Ms. Kittrell:

Pursuant to the Georgia Rules for Hazardous Site Response, specifically Rule 391-3-19-.05(1) "Listing on the Hazardous Site Inventory," the Georgia Environmental Protection Division (EPD) has evaluated the above referenced site to determine whether a release of a regulated substance exceeding a reportable quantity has occurred. Based upon information provided in your release notification dated March 24, 2004, it has been determined that a release exceeding a reportable quantity has occurred at this site. Therefore, this site is now listed on the Hazardous Site Inventory (HSI) and will be included in the next publication of the HSI.

Enclosed is a document entitled "Introduction to the Hazardous Site Inventory" that provides an overview of the listing process. Also enclosed is a printout of the data on your site that has been entered into the HSI database. The printout indicates the numerical values assigned when the site was evaluated using the Reportable Quantities Screening Method (RQSM). If it is your position that any of the values shown on the enclosed printout do not represent actual conditions at the site as of the date of this letter, then you may request that the value be changed. If analytical data not yet submitted to EPD is the basis of your request for a change in a RQSM value, the data must have been collected prior to your receipt of this letter to affect the listing of your site on the HSI. Your request should be made in writing and provide documentation to support your position, including a statement as to what you think the appropriate value for that factor should be.

In accordance with O.C.G.A. §12-8-70(d) and Rule 391-3-19-.05(2) "Release Reporting," you are required to submit the following information unless such information has already been submitted pursuant to Rule 391-3-19-.04(4) "Notification Requirements":

(1) Name, mailing address, and telephone number of the site's property owner, lessee, tenant, or facility owner or operator (for all such properties at the site);

(2) Street address of the site or, if a numbered address is not available, a location descriptor;

(3) An original of the most current topographic map of scale 1:24,000 produced by the United States Geological Survey, with the geographic center of the site identified;

(4) A description of the property boundaries in the vicinity of the site by legal description, survey plat, tax map (EPD requires that you provide a **tax map parcel ID number** for the parcel at

which the reportable quantity release was identified), or other means (the property boundary description must include other owners' properties if other properties have been affected by the release);

(5) A chemical name, taken from Appendix I, of each regulated substance released at the site that independently meets the notification criteria in Rule 391-3-19-.04(3);

(6) A general description of the nature of the release and the location of areas affected by the release or by its subsequent migration, both within and beyond the original site's boundaries;

(7) Suspected or known source, quantity, and date of the release;

(8) A summary of actions taken to investigate, clean up, or otherwise remediate the site; and

(9) A statement that identifies the criteria of Rule 391-3-19-.04(3) by which the property owner determined that a release, which required notification, has occurred.

You have the option to use EPD's revised standardized Release Notification/Reporting Form (copy enclosed) in submitting the above information. If there are items requested on the revised notification form that were not previously submitted, please provide those items using the new form. If you change or add any information previously submitted in a standardized form, please provide a cover letter with the new completed form that clearly states that you are providing supplemental information only, and that you are not submitting a new notification.

Please submit the required information within forty-five (45) days of receipt of this letter to the following address:

Georgia Environmental Protection Division
Hazardous Sites Response Program
2 Martin Luther King, Jr. Dr., Suite 1462 East
Atlanta, Georgia 30334
ATTENTION: HSI

If you have any questions or comments, please contact David Brownlee at 404/657-8600.

Sincerely,

Carol A. Couch, Ph.D.
Director

C: E. Hwan Kim

Enclosures: (1) HSI site data printout
(2) Introduction to the HSI
(3) Release Notification/Reporting Form

File: Site Number 10786
S:\RDRIVE\DAVIDB\LETTERS\HSI\Fashion Care-Executive Care.doc

Site No.: **10786** Site Name: **Fashion Care/Executive Care**

07/12/2004 10:07:54

Location: 2211 Savoy Drive
Chamblee Lat 33 ° 55 ' 8 " N Lon 84 ° 17 ' 56 " W
County: DeKalb 30341
Parcel ID:

Property Owner: The Estate of John F. Rowan
1270 Hestertown Road
Madison , GA 30650
Phone: (706) 342-4535

Contact Person: Nan Kittrell

The Estate of John F. Rowan
1270 Hestertown Road
Madison , GA 30650
Phone: (706) 342-4535

Facility ow/op: E. Hwan Kim

Clothes Doctor, Inc.
9971 Carrington Lane
Alpharetta , GA 30022
Phone: (770) 458-7878

EPA ID:
Entered HSI Database on : 07/12/2004
Corrective Action Site Class: 2 Cleanup Code: 1

OUTPUT FROM REPORTABLE QUANTITIES SCREENING METHOD

GROUNDWATER PATHWAY ***Pathway Score:*** ***8.13***

A. Known (45), Suspected (10), or Pot. Future (5): 45
1B.Higher (6), Average (3), or Lower (0) Susceptibility: 0
2B. Physical State [stable solid=0; liquid=3]: 0
C. Containment [very good=0; poor=3]: 0

SUBSTANCE: (CAS: 75014) Vinyl chloride	
2D. Toxicity: 16	3D. Quantity: 4 -

1E. Exposure: 4 (If 1E>4 then 2E=16)
2E. Distance to well or spring: 0 (If 1E=0 then 2E=1)

ON-SITE EXPOSURE PATHWAY ***Pathway Score:*** ***46.30***

A. Access [none=0; unlimited=4]: 4
B. Known (25), suspected (15), or no known (0) release: 25
C. Quality of containment [very good=0; poor=5]: 0

SUBSTANCE: (CAS: 75014) Vinyl chloride	
2D. Toxicity: 16	3D. Quantity: 4 -

1E. Distance to resident [<300'=8; >1mile=1]: 6
2E. Sensitive Environment affected [yes=1]: 0

Other substances in groundwater:

Casno	Chemical	GrndWtr	Soil
127184	Tetrachloroethene	Y	Y
79016	Trichloroethene	Y	Y
25323302	Dichloroethylene, N.O.S.	Y	N

Georgia Department of Natural Resources

Environmental Protection Division-Land Protection Branch
2 Martin Luther King Jr., Dr., Suite 1054 East, Atlanta, Georgia 30334
(404) 657-8600; Fax (404) 657-0807
Judson H. Turner, Director

August 14, 2014

VIA E-MAIL AND REGULAR MAIL
John F. Rowan, Sr. Item IV Trust
c/o Catherine Norris
P.O. Box 197
Carmel Valley, California 93924

Re: Voluntary Remediation Program Semiannual Status Report, July 3, 2014
Fashion Care/Executive Care Site, HSI No. 10786
2211 Savoy Drive, Chamblee, Dekalb County, Georgia
Tax Parcel ID Nos. 18-343-13-002, 18-343-13-005, 18-343-13-001, & 18-333-02-023

Dear Ms. Norris:

The Georgia Environmental Protection Division (EPD) has reviewed the July 2014 Semiannual Status Report, submitted in accordance with the Voluntary Remediation Program (VRP) Act for the above referenced site. EPD offers the following comments, which should be addressed pursuant to the Act:

1. The conceptual site model (CSM) cross-section presented in Figure 1 does not show contaminant concentrations superimposed on the stratigraphic features and also does not include vertical and horizontal axes to scale. Please revise this cross section to scale and relocate it to include FMW-6 and FMW-9 so that it parallels the plume axis and includes the items noted above. Two additional cross sections should also be developed perpendicular to A-A'; one across the source area and one along Nancy Creek. Please note that site cross sections should be revised as new site information is obtained, and submitted as part of the updated CSM in each VRP progress report.

2. Based on the cross section provided in Figure 1, there is saprolite beneath the dense dry silt in the vicinity of FMW-4 and MW-23D. Since the attempted deep well, adjacent to FMW-5, went from dry silt to bedrock and was abandoned, there remains a data gap with regard to potential contamination beneath the dry silt as evidenced in the sampling results from MW-23D. If a replacement deep well is no longer proposed, this data gap must be satisfactorily addressed in the fate and transport modeling effort.

3. Please clarify what the flow rate was when the surface water samples were collected on April 28, 2014. In future reports please include this information with the sampling results.

4. Please clarify why the SB wells inside the building, specifically SB-26, were not sampled during the April groundwater sampling event. Please note that for the SB wells and other wells with foot note (3) in Table 1, the (3) footnote is not defined in the table notes.

5. For the low-flow purging method, the pump intake should be placed near the mid-point of the screened interval (see Groundwater Sampling, USEPA SESDPROC-301-R3, Section 3.2.2). This data was not recorded in the field sampling logs. Please place the pump intake at the recommended location in future sampling events and document the location on the field sampling logs.

The John F. Rowan, Sr. Item IV Trust (Trust) must address these comments to EPD's satisfaction in order to demonstrate compliance with the provisions, purposes, standards and policies of the Act. EPD may, at its sole discretion, review and comment on documents submitted by the Trust. However, failure of EPD to respond to a submittal within any timeframe does not relieve the Trust from complying with the provisions, purposes, standards and policies of the Act.

Please address the above comments in subsequent semi-annual progress reports. EPD anticipates receipt of the next report by December 2, 2014. If you have any questions, please contact Robin Futch, P.G., PMP at (404) 657-8686.

Sincerely,

Jason Metzger
Unit Coordinator
Response and Remediation Program

c: Leonard Diprima, Jr., P.G., Woodard & Curran (via email)
H.A. Rowan, Southern Automatic Company (via email)
Marvin Hewatt, Georgia-Alabama Commercial Investments, LLC (via email)
Joel Aultman, ASL Limited Partnership (via email)

File: HSI 10786

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Georgia Department of Natural Resources

Environmental Protection Division-Land Protection Branch

2 Martin Luther King Jr., Dr., Suite 1054 East, Atlanta, Georgia 30334

(404) 657-8600; Fax (404) 657-0807

Judson H. Turner, Director

November 13, 2013

COPY

VIA E-MAIL AND REGULAR MAIL

John F. Rowan, Sr. Item IV Trust
c/o Catherine Norris
P.O. Box 197
Carmel Valley, California 93924

Re: Voluntary Remediation Program Semi-Annual Status Report, June 2, 2012
Voluntary Remediation Program Semi-Annual Status Report, December 2, 2012
Voluntary Remediation Program Semi-Annual Status Report, June 2, 2013
Fashion Care/Executive Care Site, HSI No. 10786
2211 Savoy Drive, Chamblee, Dekalb County, Georgia
Tax Parcel ID Nos. 18-343-13-002, 18-343-13-005, 18-343-13-001, & 18-333-02-023

Dear Ms. Norris:

The Georgia Environmental Protection Division (EPD) has reviewed the above-referenced reports submitted by Winter Environmental in accordance with the Voluntary Remediation Program Act (the Act) for the above-referenced properties. EPD offers the following comments which should be addressed pursuant to the Act:

1. As noted in the Voluntary Remediation Program (VRP) application checklist and in EPD's December 2, 2010 VRP acceptance letter, the June 2, 2013 progress report should have included the final remedial plan. Although a draft plan is in place and the overall 5-year timeframe for submittal of the VRP compliance status report remains feasible, the necessary data collection and modeling to finalize that plan has not been completed. If the conceptual site model (CSM) changes, and active remediation becomes necessary, the schedule may be compromised. EPD encourages you to collect the necessary data and complete the modeling to finalize the CSM and remedial plan for inclusion in the June 2, 2014 progress report.

2. EPD concurs that horizontal delineation of groundwater is complete. Furthermore, vertical delineation of groundwater impacts to Type 1 risk reduction standards is not required for this site under Sections 12-8-107(g)(2) and 12-8-108(9) of the Act. However, a deep well is required to confirm conditions in the 'lower' aquifer in order to verify the CSM and support the model in accordance with EPD's December 2, 2010 (Comment 7) and February 22, 2012 (Comment 2) letters.

3. Based on Section 3.1 of the June 2013 Progress Report, EPD concurs that the probability of a complete exposure pathway on Tax Parcel 18-333-02-023 is minimal. Therefore, if appropriate language is added to the uniform environmental covenant (UEC) for Tax Parcel 18-343-13-002, a UEC for parcel 18-333-02-023 will not be required. In addition to the monitoring of property development proposed in Section 3.1, the UEC must commit to conducting vapor intrusion analysis, vapor intrusion mitigation, and/or groundwater corrective action, as appropriate, if enclosed structures are built in the vicinity of the plume. EPD recommends that the covenants be finalized after the CSM and remedial plan have been confirmed.

4. The vapor mitigation system proposed for the building on parcel 18-343-13-002 should be installed as soon as possible to ensure that there are no complete exposure pathways at this time.

5. The monitoring well network hasn't been sampled since July 2012 and many wells have only two or three data points. Therefore, EPD recommends that another round of sampling be completed for pertinent monitoring wells and for surface water prior to completing the required model.

The John F. Rowan, Sr. Item IV Trust (Trust) must address these comments to EPD's satisfaction in order to demonstrate compliance with the provisions, purposes, standards and policies of the Act. EPD may, at its sole discretion, review and comment on documents submitted by the Trust. However, failure of EPD to respond to a submittal within any timeframe does not relieve the Trust from complying with the provisions, purposes, standards and policies of the Act.

Please address the above comments in subsequent semi-annual progress reports. EPD anticipates receipt of the next report by December 2, 2013. If you have any questions, please contact Jason Metzger at (404) 657-8610.

Sincerely,

Charles D. Williams

Charles D. Williams
Program Manager
Response and Remediation Program

c: Leonard Diprima, Jr., P.G., Winter Environmental
H.A. Rowan, Southern Automatic Company
Marvin Hewatt, Georgia-Alabama Commercial Investments, LLC
Joel Aultman, ASL Limited Partnership

File: HSI 10786
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Georgia Department of Natural Resources

2 Martin Luther King, Jr. Dr., S.E., Suite 1462 East, Atlanta, Georgia 30334
Chris Clark, Commissioner
Environmental Protection Division
F. Allen Barnes, Director
Land Protection Branch
Mark Smith, Branch Chief

Reply To:
Response and Remediation Program
2 Martin Luther King, Jr. Drive, S.E.
Suite 1462, East Tower
Atlanta, Georgia 30334-9000
Office 404/657-8600 Fax 404-657-0807

December 2, 2010

VIA E-MAIL AND REGULAR MAIL

John F. Rowan, Sr. Item IV Trust
c/o Ms. Catherine Norris
P.O. Box 82
Rancho Santa Fe, California 92067

Re: Voluntary Investigation and Remediation Plan and Application, July 9, 2010
Fashion Care/Executive Care Site, HSI No. 10786
2211 Savoy Drive, Chamblee, Dekalb County, Georgia
Tax Parcel ID Nos. 18-343-13-002, 18-343-13-005, 18-343-13-001, & 18-333-02-023

Dear Ms. Norris:

The Georgia Environmental Protection Division (EPD) has reviewed the Voluntary Investigation and Remediation Plan (VIRP) dated July 9, 2010 submitted pursuant to the Georgia Voluntary Remediation Program Act (the Act), which has been submitted in lieu of a Corrective Action Plan required pursuant to the Georgia Rules for Hazardous Site Response (the Rules) for the above referenced site. EPD is approving your voluntary remediation plan, which specifies corrective action consisting of the following:

- Execution of Uniform Environmental Covenants to restrict exposure to contaminated soil and groundwater,
- Maintenance of existing asphalt and concrete caps to prevent exposure to contaminated soil,
- Installation and operation of a vapor collection system and installation of vapor barriers, as needed, to prevent exposure to contaminated vapors, and
- Surface water and groundwater monitoring.

Therefore, EPD is accepting the John F. Rowan, Sr. Item IV Trust (the Trust) as a participant as defined in the Voluntary Remediation Program Act for the following qualifying properties provided the Trust implements the VIRP in compliance with the following schedule and conditions:

Qualifying properties:

2211 Savoy Drive
Chamblee, Dekalb County, Georgia
Tax Parcel ID No. 18-343-13-002

4306 North Peachtree Road
Chamblee, Dekalb County, Georgia
Tax Parcel ID No. 18-343-13-005

4308 North Peachtree Road
Chamblee, Dekalb County, Georgia
Tax Parcel ID No. 18-343-13-001

North Peachtree Road
Chamblee, Dekalb County, Georgia
Tax Parcel ID No. 18-333-02-023

Within six months of detecting regulated substance(s) on a non-qualifying property, the participant must apply to EPD to include the affected property as a qualifying property under the Act or notify EPD the non-qualifying property is not included under the Act.

Schedule:

The schedule proposed in the VIRP is significantly shorter than allowed by the checklist. We encourage the Trust to adhere to its schedule as proposed in the VIRP, but have included minimum requirements, as follows:

- Semiannual progress reports are to be submitted to EPD. Each progress report must describe all actions taken since the last submittal, and include certification by the professional engineer/geologist specified in the VIRP along with a monthly summary of hours invoiced and description of services provided since the last submittal.

    - June 2nd and December 2nd through June 2, 2015.

  In addition to the information required above, the following must be included in the specific progress reports discussed below.

    - December 2, 2012 semiannual progress report must demonstrate complete horizontal delineation on all impacted properties; and,

    - June 2, 2013 semiannual progress report must demonstrate complete horizontal and vertical delineation, finalize the remediation plan and provide a cost estimate for implementation of remediation and associated continuing actions. EPD recommends that the participant finalize approval of cleanup standards for all regulated substance prior to this submittal.

- A compliance status report, including certifications, must be submitted by December 2, 2015.

Conditions:

1. EPD requests the submittal of a cost estimate for full implementation of the VIRP through CSR submittal and a financial assurance instrument in that amount by no later than March 2, 2011. Model financial assurance instruments can be located at http://www.gaepd.org/Files_PDF/forms/hwb/HSIModel.pdf.

2. The Trust must address EPD's comment letter dated December 2, 2010 and any other comment letters addressing the investigation and remediation pursuant to the Act to the satisfaction of the Director that it is consistent with the provisions, purposes, standards and policies of the Act.

3. Within ninety (90) days of the Trust's notice to withdraw from the Voluntary Remediation Program or termination by the Director pursuant to §12-8-107(d) of the Act, the Trust must submit a corrective action plan that complies with the requirements of the Hazardous Site Response Act and associated Rules for Hazardous Site Response.

4. The Trust must pay all outstanding fees within sixty (60) days of receipt of an invoice for any costs to the division in reviewing the application or subsequent document the exceeds the initial application fee.

EPD requires that the Trust and the professional engineer/geologist specified in the VIRP oversee the implementation of the VIRP in accordance with the provisions, purposes, standards and policies of the Act. EPD may, at its sole discretion, review and comment on documents submitted by the Trust. However, failure of EPD to respond to a submittal within any timeframe does not relieve the Trust from complying with the specified schedule and the provisions, purposes, standards and policies of the Act. Should the Trust fail to comply with the above schedule, EPD may terminate enrollment of the participant and the qualifying properties from the voluntary remediation program.

EPD's approval of the VIRP extends only to those technical aspects of the document that expressly require EPD approval under applicable rules and statutes. This approval is not an endorsement by EPD that it accepts as conclusive any representations made in the document. Nor does EPD guarantee or warrant that the document is free of errors or omissions. EPD may later withdraw approval of this document, in whole or in part, if EPD determines that withdrawal is necessary to ensure compliance with the applicable rules and statutes.

If you have any questions, please contact Jason Metzger at (404) 657-8600.

Sincerely,

Mark Smith

Mark Smith, Chief
Land Protection Branch

c: Leonard Diprima, Jr., P.G., Winter Environmental
H.A. Rowan, Southern Automatic Company
Marvin Hewatt, Georgia-Alabama Commercial Investments, LLC
ASL Limited Partnership

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Georgia Department of Natural Resources

2 Martin Luther King, Jr. Dr. S.E., Suite 1462 East, Atlanta, Georgia 30334
Chris Clark, Commissioner
Environmental Protection Division
F. Allen Barnes, Director
Land Protection Branch
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Reply To:
Response and Remediation Program
2 Martin Luther King, Jr. Drive, S.E.
Suite 1462, East Tower
Atlanta, Georgia 30334-9000
Office 404-657-8600 Fax 404-657-0807

December 2, 2010

VIA E-MAIL AND REGULAR MAIL

John F. Rowan, Sr. Item IV Trust
c/o Catherine Norris
P.O. Box 82
Rancho Santa Fe, California 92067

Re: Voluntary Investigation and Remediation Plan and Application, July 9, 2010
Comment Letter
Fashion Care/Executive Care Site, HSI No. 10786
2211 Savoy Drive, Chamblee, Dekalb County, Georgia
Tax Parcel ID Nos. 18-343-13-002, 18-343-13-005, 18-343-13-001, & 18-333-02-023

Dear Ms. Norris:

The Georgia Environmental Protection Division (EPD) has reviewed the July 9, 2010 Voluntary Investigation and Remediation Plan and Application (VIRP) submitted by Winter Environmental for the above-referenced site. EPD has noted the following items which should be addressed pursuant to the Georgia Voluntary Remediation Program Act (the Act):

Surface Water:

1. The application attempts to use a mixing zone analysis to demonstrate that the ongoing migration of groundwater into surface water will not create an unacceptable exposure pathway in the future. However, EPD conducted an evaluation in accordance with "NPDES Reasonable Potential Procedures," and the calculations demonstrate that an excursion above in-stream water quality standards (ISWQS) may occur if active groundwater remediation is not implemented. We do not concur with the following aspects of your analysis:

   - EPD does not concur with the 'areal average groundwater concentrations' used in the mixing zone analysis. The monitoring wells selected for use in the calculations represent current (or near future) groundwater conditions in the vicinity of Nancy Creek; they are not representative of groundwater concentrations in the source area of the site, which will be expected to discharge to Nancy Creek at some point in the future. The mixing zone analysis should be re-evaluated to incorporate a scenario whereby impacted groundwater in the vicinity of the dry cleaning building migrates along the plume axis and discharges to Nancy Creek as indicated by the CSM. A fate and transport model, such as BIOCHLOR, should be used to estimate a maximum discharge groundwater concentration.

   - It may be appropriate to average estimated groundwater concentrations along the plume front where it intercepts Nancy Creek. However, modeling or another appropriate method must be used to estimate the concentrations at discrete intervals coincident with the timing of the maximum discharge concentration at the plume axis.

- An appropriate leaching model must be used to estimate the ongoing contribution of the existing soil contamination to groundwater contamination. That contribution must be included in the proposed fate and transport modeling in addition to the existing groundwater contamination.
- The calculations should be completed using 7Q10 flow for the stream at the area of groundwater discharge. EPD has calculated that value to be 3 cubic feet per second using historical location-specific data.

2. Additional near-term surface water monitoring is necessary to demonstrate that the plume is not currently impacting Nancy Creek. The first progress report should include results from a minimum of eight (8) surface water sampling events. The flow rate should be measured prior to each sampling event and samples collected only when flow is close to 7Q10. Four (4) of the samples should be collected within a 30-day period.

3. With respect to surface water monitoring, EPD noted that the VIRP did not provide any threshold values protective of human health and the environment. The first progress report should include proposed corrective action that will be implemented within 30 days of detection of site constituents of concern (COCs) in any surface water sample collected from Nancy Creek.

4. Future surface water analysis should be conducted using an appropriate analytical method with a detection limit below the ISWQS for tetrachloroethene of 3.3 ug/L.

5. The Georgia ISWQS were updated in March 2010. The correct values for 1,2-dichloroethane, benzene, ethylbenzene, and toluene, are 0.037, 0.051, 2.1, and 5.98, respectively (all mg/L) (Table 3). Note that if COCs are detected in surface water, a Screening Level Ecological Risk Assessment may be necessary because ecological remedial goals are lower than ISWQS in certain cases.

<u>Groundwater</u>

6. At this time, EPD cannot concur that horizontal delineation of the groundwater plume at the Site has been completed. An additional monitoring well may be needed to complete horizontal delineation of vinyl chloride in the vicinity of FMW-15. FMW-15 must be included in the proposed monitoring network so that a delineation determination may be made based on future sampling results. With respect to plume delineation to the south, no technical justification was provided in the VIRP supporting the theory that Nancy Creek is a hydraulic barrier to groundwater flow in bedrock. Additional refinement of the CSM is necessary, and further justification, such as demonstration of an upward vertical gradient in bedrock at the site and/or a comparison of groundwater elevations and surface water elevations, should be included in future reports.

7. The conceptual site model (CSM) for the Site, as it relates to the vertical migration of contaminants, is based on a theory that a continuous layer of hard dry silt underlies the property and acts as a barrier to vertical flow thereby creating "upper" and "lower" water bearing zones. The VIRP further theorizes that high concentrations of PCE measured in "deep" monitoring well MW-23D (19,000 µg/L) are possibly the result of vertical migration of contamination along the well casing. Please note that PCE data collected from shallow monitoring wells in the vicinity of MW-23D are significantly lower in concentration than

detected in MW-23D and do not support the theory that contaminated groundwater in the immediate vicinity of MW-23D migrated vertically along the well casing. Please present additional evidence of this 'barrier' and/or revise the CSM appropriately in future progress reports. Delineation of the "deep" aquifer plume may be required in the downgradient direction.

8. Hydraulic conductivity calculations derived from slug test data may need to be re-evaluated in the event that a uniform layer of dry silt across the site is verified. The hydraulic conductivity estimation provided in the VIRP used an aquifer thickness of 40 feet and did not appear to incorporate the dry silt layer theorized to be present across the Site.

9. The VIRP did not include a vertical gradient calculation for the Site. Please note that vertical gradient should be calculated following completion of the vertical delineation well proposed in the area of monitoring well FW-4 and the gradient result should be included in the first semi-annual report.

10. Groundwater sampling techniques were not included in the VIRP and no information was provided regarding well development activities for newly installed monitoring wells FMW-12 through FMW-16. Please provide this information in the compliance status report.

Engineering / Environmental Covenants

11. EPD agrees that concrete and asphalt eliminate direct exposure to soil for current site receptors as a Type 5 RRS scenario. However, if the concrete or asphalt is breached due to utility repairs or construction work at the site, direct exposure would now be a complete pathway for site receptors. Since a future breach is likely in a commercial setting, the applicant must calculate site-specific utility and construction worker cleanup standards in accordance with Section 391-3-19-.07(10) of the Rules for Hazardous Site Response, for comparison to soil and groundwater concentrations.

12. If current soil and groundwater concentrations exceed the calculated values, the proposed institutional controls must be revised to explicitly state the procedures that will be taken to protect those workers. EPD will provide additional comments on the proposed institutional controls based upon future progress reports.

Miscellaneous

13. Table 2 presents the soil Type 1 RRS and Table 3 presents the groundwater Type 1 RRS, which are being used as site delineation concentration criteria. Please note that the correct soil Type 1 RRS for 1,1-dichloroethane is 400 mg/kg and the correct groundwater Type 1 RRS for cis-1,2-dichloroethene is 0.07 mg/L. Also note that footnote (3) is not defined for Table 3.

14. EPD did not review the Type 4 soil RRS provided on Table 2 because they are not being used for cleanup and because toxicity factors, chemical parameters, exposure assumptions, and sample calculations were not provided for these values.

15. Figures 5 and 7 attempt to demonstrate delineation to Type 1 RRS, but do not include sample results. Future progress reports should include soil and groundwater figures that

show current concentrations of all constituents of concern (soil figure should include historical data).

16. EPD concurs that the vapor intrusion pathway is likely complete on the property. However, the VIRP does not address the potential migration of vapors into the existing building on Parcel 18-343-13-005 (4306 North Peachtree Road). The building must be evaluated using the Johnson & Ettinger model or appropriate vapor sampling and results reported in the subsequent progress report.

17. During a September 2010 site visit, EPD noted that monitoring wells were not labeled and the newly installed wells were not locked. Please label and lock all wells.

The John F. Rowan, Sr. Item IV Trust (Trust) must address these comments to EPD's satisfaction in order to demonstrate compliance with the provisions, purposes, standards and policies of the Act. EPD may, at its sole discretion, review and comment on documents submitted by the Trust. However, failure of EPD to respond to a submittal within any timeframe does not relieve the Trust from complying with the provisions, purposes, standards and policies of the Act.

If you have any questions, please contact Jason Metzger at (404) 657-8600.

Sincerely,

Alexandra Y Cleary

Alexandra Y. Cleary
Program Manager
Response and Remediation Program

c: Leonard Diprima, Jr., P.G., Winter Environmental
H.A. Rowan, Southern Automatic Company
Marvin Hewatt, Georgia-Alabama Commercial Investments, LLC
ASL Limited Partnership

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Georgia Department of Natural Resources
Environmental Protection Division
2 Martin Luther King, Jr. Dr., Suite 1456, Atlanta, Georgia 30334
Judson H. Turner, Director
Phone (404) 656-4713

DEC 03 2014

VIA US MAIL AND EMAIL

Charles and Wendy Pero
c/o Theodore Sandler, Esq
The Sandler Law Group, LLC
6400 Powers Ferry Road, NW
Suite 200
Atlanta, Georgia 30339

Subject: Limitation of Liability
2211 Savoy Drive, Chamblee, Dekalb County, Georgia
County Tax Parcel ID No. 18-343-13-002
Fashion Care/Executive Care, HSI No. 10786

Dear Mr. and Mrs. Pero:

The Georgia Environmental Protection Division (EPD) has reviewed the Prospective Purchaser Compliance Status Report (PPCSR), dated October 30, 2014, and the Georgia Brownfields Eligibility Form, dated November 11, 2014, submitted for the above referenced property (subject property). The subject property is identified as Dekalb County Tax Parcel 18-343-13-002 (0.656 acres) and is described in the attached legal description marked Exhibit A and the attached Tax Parcel Map marked Exhibit B.

The PPCSR was submitted to support your request for a limitation of liability for the subject property pursuant to Section 12-8-200 *et seq*. of the Brownfield Act (Act). EPD has determined that the PPCSR is complete and concurs with your certification of compliance that soil at the subject property is in compliance with the Type 5 Risk Reduction Standards in Section 391-3-19-.07 of the Rules for Hazardous Site Response.

EPD hereby grants Charles and Wendy Pero (Peros) the limitation of liability provided for in Section 12-8-207 of the Act for pre-existing releases at the subject property. This limitation of liability is subject to all conditions set forth in the Act and as follows:

1. The Peros must submit a notice of purchase of the above referenced property by no later than ten (10) days after closing to EPD. Please include documentation of the prohibition of the use of tetrachloroethene on the Property.

2. The Peros will give any responsible party for groundwater contamination and/or EPD access to the subject property to perform groundwater sampling and to implement an EPD approved corrective action plan or workplan for groundwater.

3. The Peros will ensure that the requirements of the Uniform Environmental Covenant (UEC) are abided by and that the required engineering controls are properly operated and maintained.

4. In the event that the Peros wish to sell the subject property, the Peros must provide fifteen (15) days notice to EPD of its intent to offer for sale the subject property or any portion thereof. All documents offering the subject property or portion of the subject property for sale will include a copy of the PPCSR, the UEC, any other documents required by the UEC or the Act, and a copy of this letter. EPD shall be provided with the name, address, phone number, and contact person for the new property owner(s) within ten (10) days of sale.

5. For the purpose of determining liability for continuing or future releases of regulated substances upon or from the properties, the background or baseline concentration for any and all releases will be based on the information provided in the PPCSR pursuant to Section 12-8-208(d) of the Act.

The Act as amended and effective July 1, 2002 (specifically Code Section 12-8-207) states that upon the Director's approval of the Prospective Purchaser Corrective Action Plan or concurrence with the certification of compliance with Risk Reduction Standards for soil and source contained in Section 391-3-19-.07 of the Rules for Hazardous Site Response, whichever first occurs, a prospective purchaser shall not be liable to the state or any third party for costs incurred in the remediation of, equitable relief relating to, or damages resultant from the pre-existing release. Further, the prospective purchaser shall not be required to certify compliance with Risk Reduction Standards for groundwater, perform corrective action, or otherwise be liable for any pre-existing releases to groundwater associated with the qualifying properties.

EPD's approval of the PPCSR extends only to those technical aspects of the document that expressly require EPD approval under applicable rules and statutes. This approval is not an endorsement by EPD that it accepts as conclusive any representations made in the document. Nor does EPD guarantee or warrant that the document is free of errors or omissions. EPD may later withdraw approval of this document, in whole or in part, if EPD determines that withdrawal is necessary to ensure compliance with the applicable rules and statutes. EPD hereby approves the PPCSR subject to the conditions enumerated above.

If you have any questions, please contact Robin S. Futch, P.G. at 404-657-8686.

Sincerely,

Judson H. Turner
Director

c: Len Diprima, Woodard & Curran (via email)

Attachments: 1. Exhibit A: Legal Description of the Subject Property
2. Exhibit B: Dekalb County Tax Parcel Map

File: HSI 10786

Exhibit A

LEGAL DESCRIPTION (BASED ON THIS SURVEY)

All that tract or parcel of land lying and being in Land Lot 343 of the 18th Land District, City of Chamblee, Dekalb County, Georgia, said tract or parcel of land being more fully shown and designated on a plat of survey prepared by Valentino & Associates, Inc. (Job #14-063; Drawing/File #14-063), bearing the seal of Glenn A. Valentino, Ga. Registered Land Surveyor #2528, and being more particularly described, with bearings relative to Grid North, Georgia West Zone, as follows:

BEGINNING at a 1/2"iron pin set at the intersection of the westerly right-of-way line of North Peachtree Road (70' public r/w) and the line which divides Land Lots 334 and 343.

THENCE proceeding along said line which divides Land Lots 334 and 343 North 89 degrees 50 minutes 35 seconds West for a distance of 213.00 feet to a 1/2"iron pin set;

THENCE departing said line which divides Land Lots 334 and 343 North 21 degrees 58 minutes 35 seconds West for a distance of 126.48 feet to a computed point;

THENCE North 21 degrees 58 minutes 35 seconds West for a distance of 32.37 feet to a PK (masonry) nail set;

THENCE North 15 degrees 33 minutes 54 seconds East for a distance of 114.65 feet to a PK nail set on the southerly right-of-way line of Savoy Drive (variable width public r/w);

THENCE proceeding along said southerly right-of-way line of Savoy Drive South 75 degrees 38 minutes 07 seconds East for a distance of 100.03 feet to a PK nail set;

THENCE departing said southerly right-of-way line of Savoy Drive South 15 degrees 23 minutes 37 seconds West for a distance of 86.07 feet to a railroad spike found;

THENCE South 22 degrees 56 minutes 23 seconds East for a distance of 111.63 feet to a PK nail set;

THENCE South 60 degrees 14 minutes 53 seconds East for a distance of 60.02 feet to a railroad spike found;

THENCE South 89 degrees 50 minutes 35 seconds East for a distance of 75.00 feet to a PK nail set on the westerly right-of-way line of North Peachtree Road;

THENCE proceeding along said westerly right-of-way line of North Peachtree Road South 09 degrees 33 minutes 55 seconds West for a distance of 18.00 feet to a 1/2"iron pin set at the intersection of said westerly right-of-way line of North Peachtree Road and the line which divides Land Lots 334 and 343, said 1/2"iron pin set being the POINT OF BEGINNING.

Together with and subject to covenants, easements, and restrictions of record.

Said tract or parcel of land contains 0.656 acres or 28,554 square feet, and is intended to be a portion of the same tract of land that was previously conveyed in Deed Book 15562, Page 660, Dekalb County Georgia Records.

Exhibit B

FIGURE 2
TAX PARCEL MAP
2211 SAVOY DRIVE
CHAMBLEE, GEORGIA

REV	DESCRIPTION	DATE

DESIGNED BY: CHECKED BY:
DRAWN BY: DATE:

WOODARD & CURRAN
2055 Sugarloaf Circle, Suite 175
Duluth, Georgia 30097
770.622.6766 | www.woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

Georgia Department of Natural Resources
2 Martin Luther King, Jr. Dr, Suite 1462 East Atlanta, Georgia 30334-9000
Noel Holcomb, Commissioner
Environmental Protection Division
Carol A. Couch, Ph.D., Director
Phone 404/657-8600 FAX 404/657-0807

December 28, 2007

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Estate of John F. Rowan, Sr.
Ms. Nan Kittrell, Representative
1270 Hestertown Road
Madison, Georgia 30650

RE: Fashion Care/Executive Care - HSI #10786
Corrective Action Plan Approval
Chamblee, Dekalb County, Georgia

Dear Ms. Kittrell:

The Georgia Environmental Protection Division (EPD) has completed its review of the revised Corrective Action Plan (CAP), received on May 31, 2007 for the above-referenced Site. The CAP proposes to address soil contamination through the use of in situ chemical oxidation (ISCO), but does not address the solvents in groundwater. This is based on EPD's pending remediation of petroleum contamination from the adjacent EZ Serve site under the authority of the Underground Storage Tank Management Program. As stated previously, we do not expect that corrective action for the petroleum release will clean up the solvent contamination in groundwater to applicable risk reduction standards (RRS). If it does not, you will be required to clean up groundwater at this site in the future. EPD therefore recommends that you utilize an approach that will clean up both soil and groundwater. However, in the interest of addressing soil and source contamination as expeditiously as possible, EPD hereby approves the revised CAP subject to the following conditions:

Reporting/Performance Monitoring

1. A Final Pilot Study Report must be submitted to EPD prior to full-scale CAP implementation, and within 6-months of receipt of this letter. The Final Pilot Study Report must present the results of the pilot study and oxidant treatability study as specified in section 6.0 of the CAP. Assuming the pilot study shows that the site is amenable to ISCO, the Performance Monitoring Plan (PMP) referenced in the 'Remedial Design' portion of Section 6.0 should be submitted to EPD concurrently, and should include the following:

   - The PMP must provide performance monitoring sampling locations, sampling and analytical methods, analytical parameters, and the performance criteria by which the effectiveness of ISCO will be evaluated.

   - The monitoring program must include surface water sampling on a quarterly basis to ensure continued compliance with Georgia in-stream water quality standards and to ensure that oxidant breakthrough does not occur.

   - The monitoring program must include quarterly sampling of downgradient monitoring wells to monitor oxidant and contaminant flow in groundwater as alluded to in the 'Prevention of Off-Site Migration of Permanganate' portion of Section 6.0.

- Section 5.6 mentions the potential "release or migration of quantities and concentrations of chlorinated vapors that may be harmful . . ." The PMP should indicate how this will be prevented or mitigated during full-scale implementation, since the building contains ongoing dry-cleaning and restaurant operations.

- Comment 4 of EPD's December 28, 2006 Notice of Deficiency (NOD) stated that you must investigate the possible presence of a DNAPL plume in groundwater and must propose remedial action for any source material discovered. In your response letter, you state that the presence of DNAPL will be assessed during the implementation of the CAP, but the CAP does not address this issue. The PMP should fully address this comment.

2. In the event that the pilot test shows that ISCO is not effective at reducing solvent concentrations in soil at the site, an alternative corrective action plan for soil must be submitted to EPD within 60-days of the Pilot Study Report submittal.

3. An annual report must be submitted to EPD until the Director concurs that the site is in compliance with Type 1-4 risk reduction standards. The annual report must include benchmarks for demonstrating that this technology will reduce contamination at the site in a reasonable timeframe. Specific benchmarks must include provisions for modifying the ISCO design or initiating an alternate corrective action remedy in the event that ISCO technology is not achieving significantly reducing trends within a reasonable timeframe. Each annual report must also include a trend analysis, an estimate for time to meet applicable risk reduction standards, and a revised cost estimate.

4. Section 6.0 states that the screened interval of the treatment wells will start at approximately two feet below ground surface. A significant amount of PCE contamination likely remains in the interval from the bottom of the slab to the two-foot depth. Contamination in this interval has not been evaluated, so the interval should be included in performance monitoring/confirmation sampling completed after the pilot study and after full-scale implementation.

5. Section 1.3 states that tetrachloroethene (PCE) was stored in the southwest corner of the building. However, no soil sample is shown in that immediate vicinity and historical groundwater sampling in the vicinity detected PCE at 38 mg/L. Interior and exterior confirmation sampling must be completed in that area.

6. Contrary to a statement in Section 6.0, permanganate could have deleterious effects on the creek, as it is a potent algaecide. The aforementioned quarterly sampling is necessary to protect the creek since no groundwater flow velocity data has been collected. The section proposes to inject, if necessary, a sugar solution along the leading edge of the permanganate plume to prevent migration into the creek. All potential injections must be approved as part of the UIC permitting process. Furthermore, the byproduct of a sugar – permanganate reaction is typically a gelatinous residue, which may impact further mixing. Therefore, we recommend a water, vinegar, and dilute hydrogen peroxide solution.

Risk Reduction Standards

7. You derived the proposed Type 4 RRS for soil using Equation 14 - Mass Limit Soil Screening Level (MLSSL) of EPA's Soil Screening Guidance. Equation 14 assumes that the entire mass available for leaching into groundwater is contained within the soil column. Equation 14 would therefore not be applicable to sites such as Fashion Care, where contamination has already passed through the soil column and into the groundwater. Therefore, the soil leaching results using Equation 10 - Soil Screening Level (SSL) should be compared to the health-based calculations to derive the Type 4 RRS. The approved RRS for this site are shown in the table below.

8. A default f_{oc} value of 0.02 is not acceptable for calculating soil leaching concentrations protective of groundwater (SSLs). Consistent with the EPA Soil Screening Guidance (July 1996), 0.002 must be used as the default f_{oc} value. The f_{oc} value of 0.02 cited in Table 3 of the Rules for Hazardous Site Response refers to the derivation of the soil-to-air volatilization factor in the RAGs equation Part B. Use of f_{oc} values higher than 0.002 must be justified by collecting site-specific data. The corrected SSL values, as shown in Table 3-B, calculated using Equation 10 and a DAF of 20, are shown in the table below.

Compound	Groundwater RRS (mg/L)	C_w (mg/L) (DAF=20)	Soil Type 1 RRS (mg/kg)	SSL (Eq. 10) (mg/kg) (f_{oc}=0.002)	EPD Approved Soil RRS (mg/kg)
cis-DCE	1.02	20.4	0.53	6.12	6.12
trans-DCE	2	40	10	13.6	13.6
PCE	0.005	0.1	0.5	0.05	0.5
TCE	0.005	0.1	0.5	0.06	0.5
vinyl chloride	0.002	0.04	0.2	0.01	0.2

9. The Type 4 RRS for groundwater calculated for trans-DCE on Table 4-A and provided on Table 3-A is incorrect. The correct value should be 2.0 mg/L based on the non-carcinogenic risk derived from RAGS Equation 2. Since the soil Type 4 RRS is controlled by the protection of groundwater criteria, this causes changes to Table 3-B and the correct SSLs calculated for trans-DCE in soil are shown in the table above.

10. The following comments do not have an effect on the final RRS calculated for this site, but should be noted for future calculations:

    - Table 2-A states that the Type 3 RRS for soil are based on groundwater leaching; however, the Type 3 RRS are based on the notification concentration for cis-DCE and Appendix III Table 1 multiplied by 100 for trans-DCE, PCE, TCE, and vinyl chloride.

    - The Inhalation Reference Dose (RfDi) provided for trans-1,2-dichloroethene on Table 2-B is incorrect. There is no RfDi recommended.

    - The Type 3 RRS for groundwater provided for cis-1,2-dichloroethene on Table 3-A is incorrect. This value should be background or detection limit instead of 'none.'

11. The CAP included results from the Johnson and Ettinger Vapor Intrusion Model, which yielded overly conservative cleanup concentrations for soil. The intent of Comment 13 of the December 28, 2006 NOD was to confirm that current groundwater concentrations do not pose a significant vapor intrusion threat, since groundwater is not being addressed concurrently. The required PMP should demonstrate that interior PCE concentrations will not exceed OSHA standards due to vapor intrusion from groundwater contamination.

12. Section 4.1 notes that several compounds were ignored because they were detected at concentrations below their respective notification concentration. In order to delist a site, all detected regulated substances must be shown to be at concentrations below calculated RRS. Therefore, you cannot disregard those compounds which do not appear to be related to the petroleum release, including acetone, 1,2-dichlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene. Although the detected concentrations are well below their respective Type 1 RRS (acetone=400 mg/kg, 1,2-DCB=60 mg/kg, 1,3-DCB=60 mg/kg, 1,4-DCB=7.5 mg/kg), these detections must be addressed in the Compliance Status Report.

13. 1,4-dioxane is a solvent stabilizer frequently found at sites contaminated with PCE. It is not part of the target compound list in SW-846; therefore it is not run on all 8260 scans. Please ensure that the lab includes 1,4-dioxane in future analysis. If it is detected, appropriate RRS must be derived and the CAP modified to address the 1,4-dioxane if necessary.

General

14. A detailed cost estimate for the selected remedy must be submitted to EPD as part of the Final Pilot Study Report.

15. The following formatting/tabular errors have been noted and should be corrected in future submittals:

- Figures 4 and 5 have boring locations B-5, B-6, and B-7 transposed with B-10, B-11, and B-12.
- Concentration units should be shown on all applicable figures.
- The sample results for B-10, B-11, and B-12 on Figure 7 should be N/T according to the analytical data submitted with the report.
- All non-detect analytical values should be presented in summary tables as less than (<) the method practical quantitation limit rather than as "BRL."

EPD is approving this CAP subject to conditions reflecting technical and regulatory requirements. Our approval of this document extends only to those technical aspects of the document that expressly require EPD approval under applicable rules and statutes. This approval is not an endorsement by EPD that it accepts as conclusive any representations made in the document. Nor does EPD guarantee or warrant that the document is free of errors or omissions. EPD may later withdraw approval of this document, in whole or in part, if EPD determines that withdrawal is necessary to ensure compliance with the applicable rules and statutes.

Since the public comment period, which began on November 28, 2007, does not expire until December 28, 2007, EPD may require additional modifications if comments are received. Upon expiration of the CAP public comment period, a public notice will be placed in *The Champion Newspaper* and the *Atlanta Journal Constitution* indicating EPD's approval of the CAP. Please ensure that electronic submittal requirements are adhered to in future submittals, per the attached guidance. If you have any questions please contact Jason Metzger of the Hazardous Sites Response Program at (404) 657-8600.

Sincerely,

Alexandra Y Cleary

Alexandra Y. Cleary
Program Manager
Hazardous Sites Response Program

c: Mr. John R. Absalon, P.G., Southern Monitoring & Environmental, LLC
Encl: Document Submittal Format

File: HSI No. 10786
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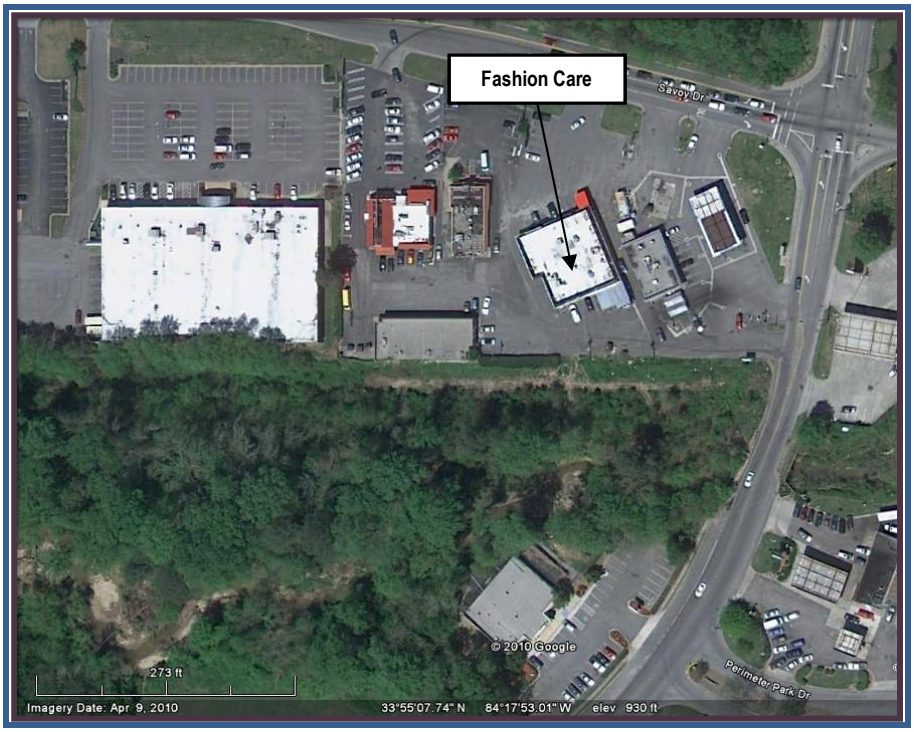
APPENDIX B – VRP SUBMITTALS

Surface Water Corrective Action Plan
Voluntary Remediation Program



Fashion Care/Executive Care Site
2211 Savoy Drive, Chamblee, DeKalb County, Georgia

-

- **Prepared For**

John F. Rowan, Sr. Item IV Trust
PO Box 197, Carmel Valley, CA 93924

Prepared by

WOODARD &CURRAN

2055 Sugarloaf Parkway, Suite 175
Duluth, Georgia 30097

Project No. 226203

July 2, 2014

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1. BACKGROUND

This Surface Water Corrective Action Plan (SWCAP) has been prepared on behalf of the John F. Rowan, Sr. Item IV Trust (Trust) as part of the Voluntary Investigation and Remediation Plan for the Fashion Care/Executive Care Site (Site) located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia (see Figure 1). At the time this SWCAP was prepared, the Site remains listed on the Georgia Hazardous Site Inventory (HSI) as site No. 10786. The Site was listed in the HSI due to a release of tetrachloroethene (PCE) from historical drycleaner operations conducted in the western half of the building located on the Trust property. Investigations were conducted under the HSRA Program and later the VRP Program, which fully delineated the extent of impacts to soil and groundwater. Both soil and groundwater contain PCE and its degradation constituents. The extent of these constituents in soil at the time of this report are shown in Figure 2, and the extent of constituents in groundwater are shown in Figure 3. The groundwater plume extends from the point of release to the South and West where it intersects Nancy Creek. To date, 12 rounds of surface water samples have been collected in Nancy Creek to determine the presence or absence of PCE and its degradation constituents. Surface water samples have been collected since 2008. Samples have been collected at various flow conditions, including extremely low flow conditions below the calculated 7Q10 for the section of Nancy Creek at the Site. All surface water samples to this time have not detected any constituents.

This SWCAP has been prepared to set forth a plan of action in the event drycleaner constituents from the Site are identified in the future in Nancy Creek. It will be implemented in conjunction with the implementation of a VRP Groundwater and Surface Water Monitoring Plan for the Site, if required by the EPD.

2. SURFACE WATER CORRECTIVE ACTION PLAN

EPD required the development of a SWCAP for the Site for implementation in the event that constituents of concern associated with the Fashion Care release should be identified in Nancy Creek during a future VRP surface water sampling event for the Site. The results of service water sampling events conducted to date are shown in Table 1. The sample locations associated with Table 1 are shown in Figure 3. No constituents associated with the release of PCE at the Site have been identified in Nancy Creek to date.

2.1 ACTION PLAN

Listed below are the steps to be taken should drycleaner constituents from the Site be identified in the future in Nancy Creek.

1. In the event constituents suspected to be associated with the drycleaner release from the Site are identified in Nancy Creek, the EPD will be notified in writing within 14 days. This notification will include a copy of the laboratory data report and a figure showing the locations where the samples were collected and methods of collection. The constituent detections will be tabulated and compared to Georgia Instream Water Quality Standards (ISWQS) and/or other surface water standards in effect at the time of the detection that are utilized by the EPD.
2. Following a detection of suspected Site constituents in surface water, should EPD deem it necessary after reviewing the information submitted, two additional surface water sampling events will be scheduled to be completed within 45 days of the above notification to the EPD to confirm the presence of drycleaner constituents in Nancy Creek associated with the Site. These sampling events will include the collection of upgradient and downgradient samples.

   The EPD will be sent the results of the confirmation sampling events in the form of a letter report within 14 days of receiving the laboratory data reports from both sampling events. Letter report will include a copy of the laboratory data reports from the sampling events, methods of sample collection, the sampling results tabulated and compared to Georgia Instream Water Quality Standards (ISWQS) and/or other surface water standards in effect at the time of the detection that are utilized by the EPD, and a figure showing the locations where the samples were collected.
3. Should the confirmation sampling events indicate the surface water detections were an anomaly, and upon EPD's concurrence with this conclusion, no further action will be conducted.
4. Should the sampling events in Step 2 above confirm the surface water detections identified in the original sampling event and confirm the constituents identified are associated with the historical release from the Site; upon EPD's concurrence with this conclusion, a course of action to evaluate the potential risk to human health and the environment of the constituents detected will be proposed in writing to the EPD within 30 days. The risk assessment methods proposed will be in accordance with current EPD and USEPA methods. The results of this Risk Assessment will be submitted to the EPD within 45 days of EPD's approval to proceed with the risk evaluation.
5. Should the human health and environmental risk assessment indicate a level of risk requiring action, a corrective action plan to mitigate this risk will be presented to the EPD for review within 60 days. The corrective action plan will include an initial design /scope of work and schedule for implementation.

Upon EPD's approval of the corrective action plan described in Step 5 above, actions to mitigate the release to surface water will be implemented according to the EPD approved schedule.

2.2 TERMINATION OF PLAN

This SWCAP will be implemented in conjunction with the implementation of a VRP Groundwater and Surface Water Monitoring Plan for this Site. Of the point in time at which EPD concurs that no further groundwater and surface water monitoring is required associated with the Fashion Care Site, this SWCAP would be terminated, and the notification and reporting requirements described herein would no longer be in effect.

Table 1: Surface Water Data through April 2014

Table 1
Surface Water through April 2014
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3
	Date Sampled		9/8/08	9/8/08	9/8/08	1/5/10	1/5/10	1/5/10	10/6/11	10/6/11	10/6/11
Volatile Organic Compounds (mg/L)											
Fashion Care HSRA Site Constituents of Interest											
1,1-Dichloroethene		75-35-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
cis-1, 2-Dichloroethene		156-59-2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Tetrachloroethene (PCE)		127-18-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
trans-1, 2-Dichloroethene		156-60-5	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Trichloroethene (TCE)		79-01-6	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Vinyl Chloride		75-01-4	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring, Laboratory Artifacts or Attributed to Other Sources											
1,2-Dichlorobenzene		95-50-1	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Acetone		67-64-1	<0.002	<0.002	<0.002	<0.05	<0.05	<0.05	0.022	<0.02	<0.02
Chlorobenzene		108-90-7	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Chloromethane		74-87-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE											
1,2-Dibromoethane (EDB)		106-93-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
1, 2-Dichloroethane		107-06-2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
2-Butanone (MEK)		78-93-3	<0.002	<0.002	<0.002	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01
4-Methyl-2-pentanone (MIBK)		108-10-1	<0.002	<0.002	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Cyclohexane		110-82-7	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.002	<0.002	<0.002
Ethylbenzene		100-41-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Isopropylbenzene		98-82-8	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Methyl tert-butyl ether (MTBE)		1634-04-4	<0.002	<0.002	<0.002	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Styrene		100-42-5	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Toluene		108-88-3	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Xylenes, Total		1330-20-7	<0.002	<0.002	<0.002	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001

Table 1
Surface Water through April 2014
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3
	Date Sampled		10/7/11	10/7/11	10/7/11	10/8/11	10/8/11	10/8/11	10/9/11	10/9/11	10/9/11
Volatile Organic Compounds (mg/L)											
Fashion Care HSRA Site Constituents of Interest											
1,1-Dichloroethene		75-35-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1, 2-Dichloroethene		156-59-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene (PCE)		127-18-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1, 2-Dichloroethene		156-60-5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene (TCE)		79-01-6	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride		75-01-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Properly Applied Chemicals, Non-HSRA Regulated Chemica											
1,2-Dichlorobenzene		95-50-1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone		67-64-1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chlorobenzene		108-90-7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane		74-87-3	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	0.002	0.001	<0.001
Petroleum Constituents/VOCs Related to the EZ-Serve UST											
1,2-Dibromoethane (EDB)		106-93-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1, 2-Dichloroethane		107-06-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Butanone (MEK)		78-93-3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Methyl-2-pentanone (MIBK)		108-10-1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cyclohexane		110-82-7	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene		100-41-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene		98-82-8	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-butyl ether (MTBE)		1634-04-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene		100-42-5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene		108-88-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes, Total		1330-20-7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Table 1
Surface Water through April 2014
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3
	Date Sampled		10/21/11	10/21/11	10/21/11	10/22/11	10/22/11	10/22/11	10/23/11	10/23/11	10/23/11
Volatile Organic Compounds (mg/L)											
Fashion Care HSRA Site Constituents of Interest											
1,1-Dichloroethene		75-35-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1, 2-Dichloroethene		156-59-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene (PCE)		127-18-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
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Trichloroethene (TCE)		79-01-6	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride		75-01-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Properly Applied Chemicals, Non-HSRA Regulated Chemica											
1,2-Dichlorobenzene		95-50-1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone		67-64-1	0.021	0.022	0.023	0.034	0.037	0.031	0.046	0.040	0.051
Chlorobenzene		108-90-7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane		74-87-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Petroleum Constituents/VOCs Related to the EZ-Serve UST											
1,2-Dibromoethane (EDB)		106-93-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1, 2-Dichloroethane		107-06-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
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4-Methyl-2-pentanone (MIBK)		108-10-1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cyclohexane		110-82-7	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene		100-41-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene		98-82-8	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-butyl ether (MTBE)		1634-04-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene		100-42-5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene		108-88-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes, Total		1330-20-7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Table 1
Surface Water through April 2014
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3
	Date Sampled		10/24/11	10/24/11	10/24/11	7/11/12	7/11/12	7/11/12	4/28/14	4/28/14	4/28/14
Volatile Organic Compounds (mg/L)											
Fashion Care HSRA Site Constituents of Interest											
1,1-Dichloroethene		75-35-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1, 2-Dichloroethene		156-59-2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Tetrachloroethene (PCE)		127-18-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1, 2-Dichloroethene		156-60-5	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene (TCE)		79-01-6	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl Chloride		75-01-4	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Properly Applied Chemicals, Non-HSRA Regulated Chemica											
1,2-Dichlorobenzene		95-50-1	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone		67-64-1	0.190	0.180	0.200	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorobenzene		108-90-7	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane		74-87-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Petroleum Constituents/VOCs Related to the EZ-Serve UST											
1,2-Dibromoethane (EDB)		106-93-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1, 2-Dichloroethane		107-06-2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone (MEK)		78-93-3	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cyclohexane		110-82-7	<0.002	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene		100-41-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene		98-82-8	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Styrene		100-42-5	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene		108-88-3	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylenes, Total		1330-20-7	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Figure 1: Site Location Map

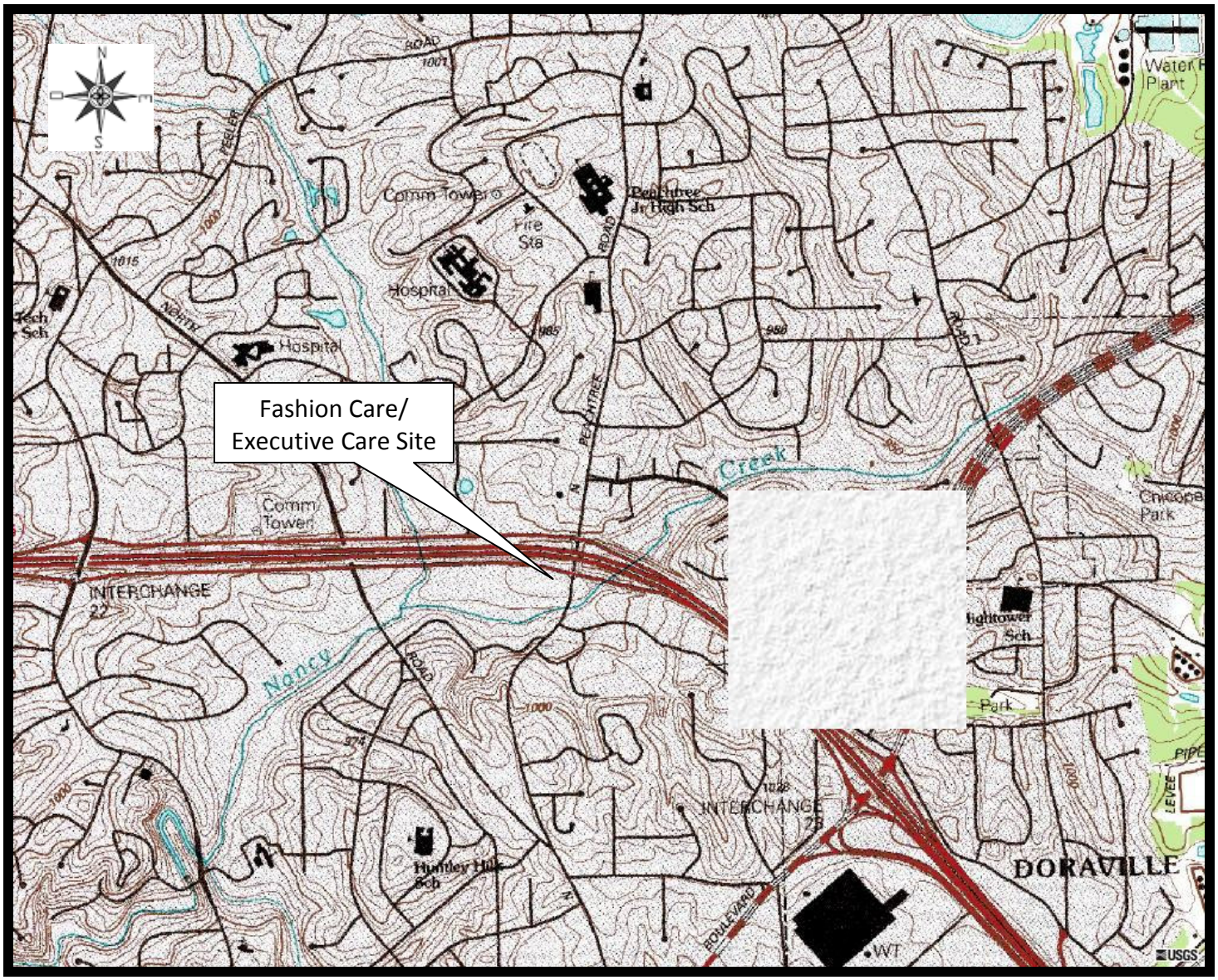
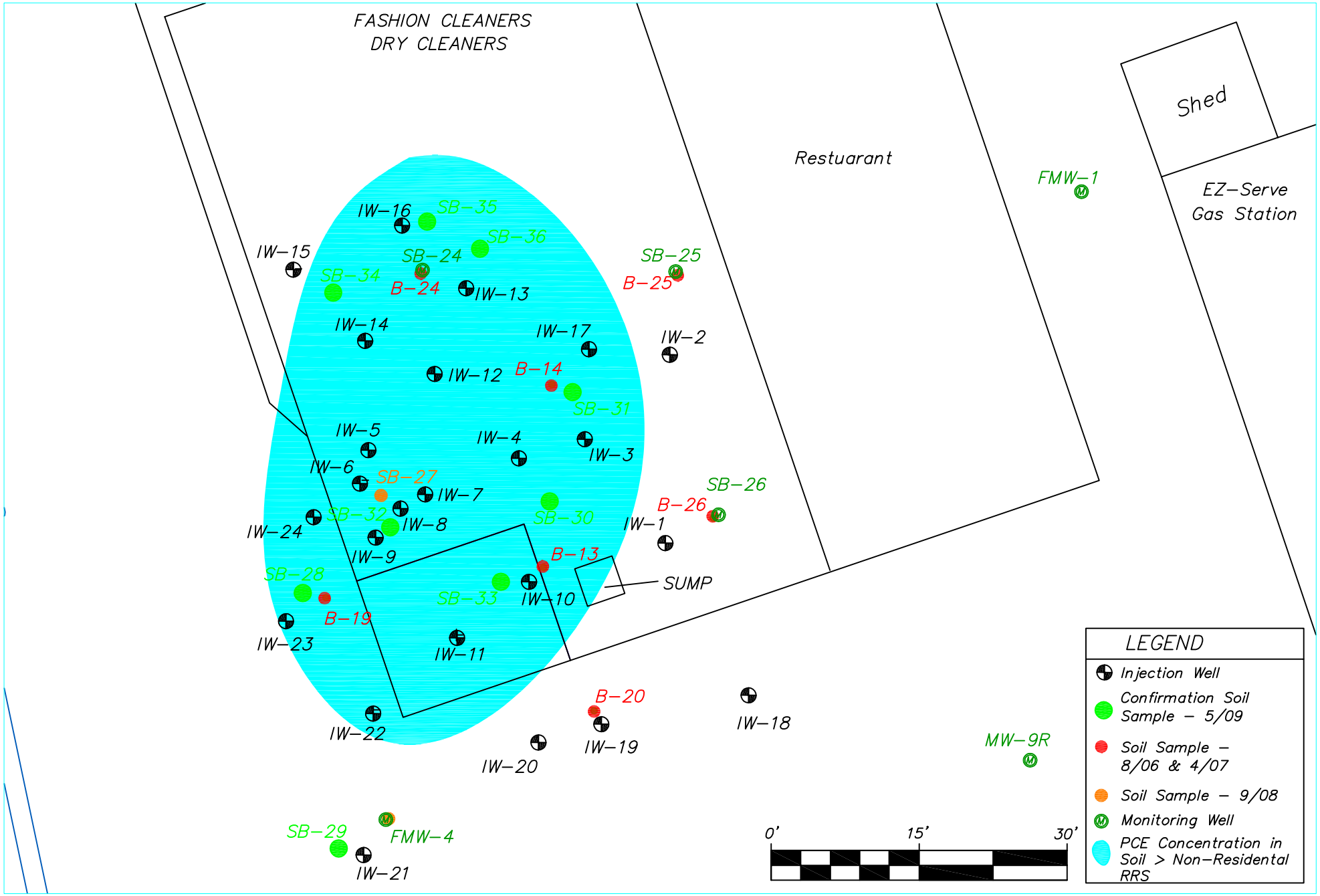


Image courtesy of the U.S. Geological Survey

Figure 1
Site Location Map
Fashion Care/Executive Care HSRA Site
2211 Savoy Drive, Chamblee, Georgia

Figure 2: Extent of Soil Impacts



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WOODARD & CURRAN

FIGURE 2

Extent of Soil Impacts

May 2009

Fashion Care

Figure 3: April 2014 Groundwater Data Map

2055 Sugarloaf Circle, Suite 175
Duluth, Georgia 30097
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REV	DESCRIPTION	DATE

DESIGNED BY:
DRAWN BY:
CHECKED BY:
04-2014 GW CONTOURS.DWG

FIGURE 3
APRIL, 2014 GROUNDWATER DATA MAP

FASHION CARE EXECUTIVE CARE SITE

2211 SAVOY DRIVE
CHAMBLEE, GA 30341

JOB NO.:
DATE:
SCALE:
SHEET: OF

VOLUNTARY REMEDIATION PROGRAM
VOLUNTARY INVESTIGATION AND REMEDIATION PLAN SEMIANNUAL STATUS REPORT

Date: July 2, 2014

Site Name: Fashion Care/Executive Care Site, HSI No. 10786

Site Address: 2211 Savoy Drive, Chamblee, Georgia

County: DeKalb

This electronic copy of the Voluntary Investigation and Remediation Plan Semiannual Status Report dated July 2, 2014 for the above referenced Fashion Care/Executive Care Site, HSI No. 10786, 2211 Savoy Drive, Chamblee, Georgia, DeKalb County is complete, identical to the paper copy, and virus free.

COMMITMENT & INTEGRITY
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July 1, 2014

Robin S. Futch, PG, PMP
Compliance Officer
Georgia Environmental Protection Division
Hazardous Sites Response Program/ Voluntary Remediation Program
Suite 1054 East Floyd Tower
2 Martin Luther King, Jr. Drive, SE
Atlanta, GA 30334

Subject: Voluntary Investigation and Remediation Plan Semiannual Status Report Fashion Care/Executive Care Site, Hazardous Site Inventory (HSI) No. 10786, 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, July 2, 2014 Woodard & Curran Project No. 226203.00

Dear Ms. Futch:

Enclosed for your review is the Voluntary Investigation and Remediation Plan Semiannual Status Report for the Fashion Care/Executive Care Site (Site), Hazardous Site Inventory No. 10786, located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia. There is one hard copy and two CD's of the report enclosed.

Please contact me with any questions or comments you may have.

Sincerely,

WOODARD & CURRAN INC.

Leonard J. Diprima, Jr., P.G.
Senior Project Manager

LJD/ljd

Enclosure(s)

cc: Project File

Semiannual Status Report

Voluntary Remediation Program

Fashion Care/Executive Care Site
HSI No. 10786
2211 Savoy Drive, Chamblee, DeKalb County, Georgia

226203.00

John F. Rowan, Sr., Item IV Trust
Carmel Valley, CA

July 2, 2014

770.622.6766
Leonard Diprima, PG

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

Voluntary Investigation and Remediation Plan
Semiannual Status Report
Voluntary Remediation Program

(December 2, 2013 through July 2, 2014)

Fashion Care/Executive Care Site
HSI No. 10786
2211 Savoy Drive, Chamblee, DeKalb County, Georgia

Prepared For

John F. Rowan, Sr. Item IV Trust
PO Box 197, Carmel Valley, CA 93924

Prepared by

WOODARD &CURRAN

2055 Sugarloaf Parkway, Suite 175
Duluth, Georgia 30097

Project No. 226203

July 2, 2014

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Appendix C Surface Water Corrective Action Plan
Appendix D Uniform Environmental Convenant Notifications

Section 1
PE/PG Certification

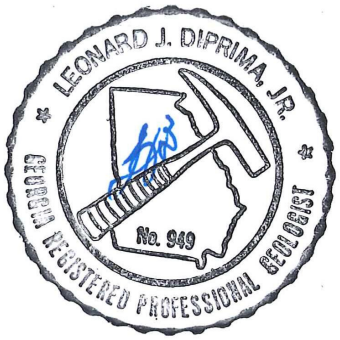
I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional geologist who is registered with the Georgia State Board of Registration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

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

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

Leonard J. Diprima, Jr. / Georgia PG #949	July 2, 2014
Printed Name and GA PE/PG Number	Date

Signature and Stamp



Section 2
Introduction

Woodard & Curran (W&C) has prepared this Voluntary Investigation and Remediation Plan Semiannual Status Report (Status Report) in accordance with the Voluntary Remediation Program (VRP) for the Fashion Care/Executive Care Site (Site), Hazardous Site Inventory (HSI) No. 10786, located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, on behalf of the John F. Rowan, Sr. Item IV Trust (Trust). On July 9, 2010, a Voluntary Investigation and Remediation Plan Application (VIRP) was submitted to the Georgia Environmental Protection Division (EPD) Hazardous Sites Response (HSRA) Program for the Site. On December 2, 2010, the EPD approved the VIRP with comments and entered the Site into the VRP. This Status Report has been prepared to present the activities conducted from December 2, 2013 through July 2, 2014 for the Site in accordance with the VRP.

Section 3
Work Performed – December 2, 2013 through July 2, 2014

The activities currently identified to be performed at the Site under the VRP are outlined in the following documents:

- VIRP dated July 9, 2010;
- EPD VIRP approval letter dated December 2, 2010;
- EPD VIRP comment letter dated December 2, 2010;
- VRP Action Plan Technical Memorandum dated February 3, 2011 included as an attachment to the Financial Assurance submittal to the EPD dated March 2, 2011; and the
- EPD VIRP Status Report comment letter dated November 13, 2013.

The primary activities that have been completed or initiated from December 2, 2013 through July 2, 2014 are listed below and detail is provided in Sections 3.1 through 3.7.

- Attempted installation of a deep, Type III monitoring well;
- Completion of a conceptual site model;
- Collection of a round of groundwater and surface water samples;
- Vapor mitigation design test, final design, system installation and operation;
- Groundwater modeling of the groundwater impacts for preparation of a VRP Groundwater Monitoring Plan has been initiated;
- Preparation of a Surface Water Corrective Action Plan (CAP); and
- Completion and implementation of Uniform Environmental Covenants (UECs) for the Fashion Care and Southern Automatic Company properties.

3.1 Deep Type III Monitoring Well

The lithology and suspected hydrogeology presented in the early conceptual site model for the Site was based upon the theory that the saturated soil zone was divided into an upper and lower water bearing zone, separated by a dense, dry silt. This was based upon evidence that the upper water-bearing zone is thinner adjacent to Nancy Creek where saturated conditions are encountered in borings as shallow as 5 feet below grade and a dense dry silt is encountered at depths of 8 to 16 feet below grade, which generally corresponds to the streambed of Nancy Creek adjacent to the Site. The vertical walls and wide streambed of Nancy Creek also supported this hypothesis. The thickness of the potential upper water bearing zone appeared to be greater to the north near Savoy Drive and thinned as Nancy Creek is approached. To confirm the lithology presented in the conceptual site model, ten (10) additional soil borings were advanced across the Site in November 2013. These borings were advanced to confirm the consistent presence of the dry silt across the Site and to determine the thickness of this layer. The presence of the dry silt was confirmed across the Site through these borings. As anticipated, the dry silt was encountered at deeper

depths at the higher elevations around the Fashion Care building, at approximately 23 feet below ground surface (bgs). Toward the creek, the dry silt was encountered as shallower depths ranging from 8 feet bgs (FMW-15) to 19 feet bgs (SB-46). The dry silt is very dense and in the majority of borings drilling was terminated with DPT refusal due to the hard nature of the material. When slight pressure was applied to a core of the silt it would crumble into loose material, indicative of the lack of moisture in the silt. To determine the general thickness of the layer to aid in planning the construction of a Type III monitoring well to be screened below the silt, one boring, SB-37, successfully penetrated the silt. The silt was found to be approximately 10 feet thick (23 feet bgs to 33 feet bgs) at that location.

On April 22, 2014, Woodard and Curran mobilized to the site to install a Type III double cased monitoring well (MW-18D) adjacent to FMW-5. This location was previously agreed to by EPD for installing a deep well to establish groundwater quality conditions beneath the dry silt. A pilot hole was first drilled to identify the top of and base of the dry silt to determine the placement of the outer casing for the deep monitoring well. As anticipated, the dry silt was encountered at approximately 14 feet bgs, and water table aquifer conditions were encountered above the silt. However, bedrock was encountered immediately at the base of the dry silt at a depth of 33.5 feet bgs. A boring log is provided in Appendix A. As a result, the installation of the Type III well was aborted and EPD was notified of the conditions that were found. Based upon these findings, the following determinations were made:

- A Type III well could not be installed downgradient, and
- The water bearing zone present beneath the dry silt topographically upgradient near the fashion care building appears to pinch out moving toward Nancy Creek, with the dry silt resting upon bedrock.

Based upon discussions with EPD regarding the conditions found during the attempt to install the deep well, it was determined by Woodard & Curran and EPD that the lithology did not support the installation of a deep well. The information obtained from this attempted installation of the Type III monitoring well was used to finalize the conceptual site model for the site. The conceptual site model is discussed in Section 3.2.

3.2 Conceptual Site Model

Using a variety of data, including historical and recent boring logs, monitoring well construction logs, groundwater flow data and laboratory analytical data, the final conceptual site model for the Fashion Care/Executive Care is complete and shown as Figure 1. This conceptual site model will be used to determine the current status, and to predict the movement of impacts from the drycleaner release at the Site. The conceptual site model shows that the historical release(s) of PCE from drycleaner operations in the rear of the building migrated vertically through the unsaturated soil zone, impacting groundwater. PCE and it's degradation constituents been migrated horizontally to the south then west in the thin water table aquifer traveling above the dry silt. The groundwater plume intersects Nancy Creek, however, no drycleaner constituents have been identified in the creek in any of the surface water sampling events conducted to date, even those conducted during extreme low flow conditions in Nancy Creek. Based upon the most recent groundwater and surface water sampling event conducted in April 2014, and compared to the July 2012 sampling event and other historical water and surface water sampling events, the overall groundwater plume appears to be shrinking in size in concentration. This conclusion is based upon the comparison of groundwater data in Table 1, and the comparison of Figure 3 (July 2012 groundwater data) and Figure 4 (April 2014 groundwater

data). Groundwater modeling and statistical analysis of the current groundwater data set, and if necessary, additional rounds of groundwater and surface water sampling will be used to confirm this conclusion.

3.3 April 2014 Groundwater and Surface Water Sampling

On April 28-29, 2014, a current round of water samples were collected per the December 2, 2013 VRP Semiannual Status Report. Ten monitoring wells and three surface water locations were sampled for Target Compound List (TCL) VOCs. The monitoring wells sampled were FMW-1, FMW-4, FMW-5, FMW-6, FMW-9, FMW-13, FMW-14, FMW-15, FMW-16 and FMW-17. Surface water samples were collected at locations. SW-1 through SW-3. Sample locations are shown on Figure 2. The field sampling activities were conducted in general accordance with the protocols specified in the US EPA Field Branches Quality Systems and Technical Procedures. Monitoring well sampling logs are in Appendix A.

Prior to collecting groundwater samples, a full round of groundwater elevation measurements were collected from all monitoring wells on the Site. These measurements were collected using an electronic water level probe, with measurements collected to the nearest hundredth of a foot. The water table elevation measurements are presented in Table 2. This data was used to construct a potentiometric surface map as shown in Figure 4. Based upon this potentiometric surface map groundwater flows to the south and west, consistent with historical data.

Detected constituents are presented in Table 3, compared to HSRA Types 1/3 risk reduction standards (RRS) and Type 5 RRS established for the site. The April 2014 data is also presented on Figure 4. The results from this round of groundwater samples is compared to historical rounds of groundwater data collected on the Site in Table 1. The current round of groundwater data was compared to the last round of sample data in 2012, and to historical data back to the initial sampling at each location. The results of these comparisons are as follows, starting with the most downgradient wells and working back toward the source of groundwater contamination at the Fashion Care building:

- Downgradient wells (furthest from source); FMW-10, FMW-13, FMW-14, FMW-15, FMW-16 and FMW-17: All constituents detected in these wells in 2012 have decreased in concentration in 2014 (FMW-10 was not sampled in April 2014). Constituents are all below standard detection limits in FMW-10, FMW-15, FMW-16 and FMW-17. All constituents in FMW-13 are below detection limits with the exception of tetrachloroethene (PCE), which has reduced in concentration since 2012, and remains above a Type 1/3 RRS but below a Type 5 RRS. All constituents in FMW-14 are below standard detection limits with the exception of cis-1,2-dichloroethene, which has reduced in concentration since 2012, and remains below all RRS. Graphs showing the concentrations versus time in monitoring wells FMW-13, FMW-14, FMW-15 and FMW-16 are shown as Figures 5 through 8.

- Downgradient wells (nearer to source); FMW-4, FMW-5, FMW-6 and FMW-9: All constituents detected in these wells are relatively stable or are decreasing in concentration. Expected fluctuations in concentrations are observed in constituents undergoing the degradation process. Detected constituents in monitoring wells FMW-4 and FMW-6 are fluctuating slightly but are within the same order of magnitude in concentration. Constituents in monitoring well FMW-5 are all below detection limits, and are showing an overall decrease in concentration since sampling began at this location. Detected constituents in monitoring well FMW-9 are

generally fluctuating within the same order of magnitude, with degradation constituents slightly rising in concentration. One new constituent was detected in FMW-4; 1,1,2-trichloroethane. This constituent was not seen in any other monitoring wells. Graphs showing the concentrations versus time in these monitoring wells are shown as Figures 9 through 12.

- Peripheral and upgradient wells; FMW-1, FMW-2, FMW-3, FMW-7, FMW-8, FMW-11 and FMW-12: All of these peripheral and upgradient wells are below detection limits for all constituents or are decreasing in concentration since their initial sampling. Only FMW-1 was sampled in April 2014. A graph showing the concentrations versus time in monitoring well FMW-1 is shown as Figure 13.

In summary, an evaluation of the overall current data set for groundwater indicates at this time the plume is shrinking at the downgradient edge, and remaining generally consistent in concentrations nearest the source as the parent constituent, PCE, progresses through the reductive dechlorination degradation process. This is likely the result of the removal of the original source of constituents; the PCE drycleaning machine; the sealing of the lint sump at the rear of the building; the chemical oxidation treatment of soil in the source area conducted in March 2009 and maintaining an impervious cap over the remaining soil impacts.

This round of groundwater data and the historical data was used to begin the source to groundwater to surface water modeling discussed in Section 3.5.

The results of the surface water sampling are consistent with historical results. All constituents were below detection limits. April 2014 and historical surface water sampling results are shown in Table 4. Laboratory data reports for the April 2014 groundwater and surface water sampling event are in Appendix B.

3.4 Vapor Mitigation System Testing, Design and Installation

On June 4, 2014, Woodard and Curran performed testing to evaluate the potential radius of influence for a sub-slab depressurization system (SSDS). Testing was conducted by drawing a vacuum at previously installed shallow soil injection point IW-7, located near the center of the contaminant source area. The vacuum was induced by connecting a Shop-Vac to the IW-7 PVC riser, with the discharge hose running to the outside of the building. Three monitoring points were installed at distances of 7.5, 15, and 30 feet from IW-7 (Figure 14). The monitoring points were installed by drilling a small diameter hole in the floor, inserting a piece of polyethylene tubing, and sealing around the tubing with modeling clay. A pressure gauge (maximum pressure of 0.2 inches water) was then attached to the end of the tubing.

Once the monitoring points were installed, the pressure test was started by powering on the vacuum. Within five seconds, the pressure readings at both the 7.5 and 15-foot monitoring points reached the maximum value on the gauge. The pressure reading at the 30-foot monitoring point reached the maximum value within one minute. Based on these findings, it was determined that a single vapor extraction point would be sufficient for depressurizing the sub-slab beyond the limits of VOC impacts.

Accordingly, Woodard and Curran installed an SSDS on June 21 and 22, 2014. An extraction point was installed in the vicinity of IW-7 by coring an eight-inch hole through the floor, and removing soil to a total depth of 18 inches below the top of the floor slab. The hole was then backfilled with gravel to the bottom of the floor slab. A two-inch PVC riser protected by sections of steel rebar was placed inside the hole, and the hole was then sealed to the surface with cement. A rubber seal was placed on top of the gravel at the base of the slab to prevent the cement from entering into the gravel vapor sump. The two-inch riser was run to the roof support beams and then horizontally approximately 15 feet to and through a boarded-up window on the western wall of the building. The entire piping system was slightly sloped back towards the vapor sump to allow for condensate to drain back to the subsurface as necessary.

A radon removal fan (RadonAway model RP140) was mounted on the outside of the building, with the final discharge above the roof line. To power the fan, electric conduit was run from a nearby junction box, and the corresponding breaker in the electric panel was tagged to indicate the breaker should not be turned off. A U-tube manometer was mounted on the two-inch riser to provide a visual indication of system operation.

On June 22, 2014, the fan was turned on, and the manometer immediately registered a pressure reading of 0.2 inches water. This pressure reading was confirmed during a site visit 24 hours later to ensure the system was operating properly.

3.5 Groundwater Modeling

Groundwater modeling will be conducted to evaluate the current state of the groundwater plume emanating from the drycleaner release. It will also be used as a predictive tool to evaluate the future movement of contaminants from the soil source area, to groundwater, to surface water. This information will be used to prepare a VRP Groundwater Monitoring Plan. The April 2014 groundwater and surface water data, as well as all historical groundwater, surface water and soil data collected from the site, will be used to calibrate the model. The flow of groundwater is being modeled using MODFLOW, the industry standard for three dimensional groundwater flow modeling. The MT3DMS package is being used to model the contaminant migration at the Fashion Care Site. Model calibration was begun in June 2014.

3.6 Surface Water Corrective Action Plan

EPD required the development of a Surface Water Corrective Action Plan (SWCAP) for the Site for implementation in the event that constituents of concern associated with the Fashion Care release should be identified in Nancy Creek during a future surface water sampling event. In accordance with this requirement, Woodard and Curran has developed for EPD review and approval a SWCAP. The SWCAP is located in Appendix C. In summary, the surface SWCAP includes the following actions:

- In the event constituents associated with the drycleaner release are identified in Nancy Creek, the EPD will be notified in writing within 14 days to include a copy of the laboratory data report.

- Following a detection in surface water, two additional surface water sampling events will be scheduled to be completed within 45 days of the above notification to the EPD to confirm the presence of drycleaner constituents in Nancy Creek associated with the Fashion Care release. These sampling events will include the collection of upgradient and downgradient samples.

- The EPD will be sent the results of the confirmation sampling events in the form of a letter report within 14 days of receiving the laboratory data reports. Letter report will include a copy of the laboratory data reports from the two sampling events.

- Should the confirmation sampling events indicate the surface water detections were an anomaly, and upon EPD's concurrence with this conclusion, no further action will be conducted.

- Should the confirmation sampling events confirm the surface water detections identified in the original sampling event, and upon EPD's concurrence with this conclusion, a course of action to evaluate the potential risk to human health and the environment of the constituents detected will be proposed in writing to the EPD within 30 days.

- Should the human health and environmental risk assessment indicate a level of risk requiring action, a corrective action to mitigate this risk would be presented to the EPD for review within 60 days.

3.7 Uniform Environmental Covenants

During this six-month period the Uniform Environmental Covenant (UEC) for the Fashion Care (Trust) parcel, Parcel No. #18-343-13-002 was finalized though working with the EPD, and was executed by the Trust on April 1, 2014. Subsequent to executing the Trust UEC the following actions for the Southern Automatic Company property (parcel # 18-343-13-005) and the Trust property UEC's were initiated:

- At least 30 days prior to obtaining the EPD Director's signature, a copy of the UEC's were sent to the following:
  - Anyone identified as a "Grantee/Holder";
  - Each person holding a recorded interest in the property; "Parties with interest in the Property";
  - "Fee Owner of Property/Grantor";
  - Each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located; and

  Each owner in fee simple whose property abuts the property subject to the Environmental Covenant.
- Within thirty (30) days <u>after</u> the date of the EPD Director's signature, the UEC's were:
  - Filed with the Recorders of Deeds for DeKalb County;
  - A file stamped copy of the UEC's were sent to EPD within thirty (30) days of recording;
  - A file-stamped copy of the UEC's were sent to each of the following:
    - Each person holding a recorded interest in the property; "Parties with interest in the Property";
    - Anyone identified as a "Grantee/Holder";

- "Fee Owner of Property/Grantor";
- Each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located; and
- Each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

Table 5 presents the parties notified in accordance with the above requirements. On April 9-10, 2014 copies of the Southern Automatic Company and Trust property UEC's were sent by overnight mail to the listed parties. Confirmation signatures were obtained from all parties documenting the receipt of the UEC's. Documentation of these actions are in Appendix D.

On May 27, 2014, the UEC's were signed by the Director of the EPD. The UEC's were recorded by the Clerk of the Superior Court of DeKalb County on June 5, 2014.

In June 2014 fully executed and recorded copies of the Southern Automatic Company and Trust property UEC's were sent by overnight mail to the parties listed in Table 5. Confirmation signatures were obtained from all parties documenting the receipt of the UEC's. Documentation of these actions are in Appendix D. The fully executed and recorded UECs are in Appendix D.

Section 4
Work to be Performed

The additional activities anticipated to be performed for the Site through completion of the VIRP are outlined in the VIRP dated July 9, 2010, the EPD VIRP approval letter dated December 2, 2010, the EPD VIRP comment letter dated December 2, 2010, and the VRP Action Plan Technical Memorandum dated February 3, 2011 included as an attachment to the Financial Assurance submittal to the EPD dated March 2, 2011. Additional comments provided by the EPD regarding the June 2, 2012, December 2, 2012 and June 2, 2013 Status Reports in correspondence dated November 13, 2013 will also be addressed during the execution of the VIRP.

These tasks are presented on Figure 15. The primary tasks anticipated to be completed during the next six months for the period ending December 3, 2014 are presented below:

- Completion of the modeling of the contaminant transport environment at the Site; and
- Completion of the VRP Monitoring Plan for the Site.

The tasks currently identified to complete the VIRP are presented on Figure 16, a revised estimated schedule. This schedule will be revised with the submittal of each Semiannual Status Report, as required.

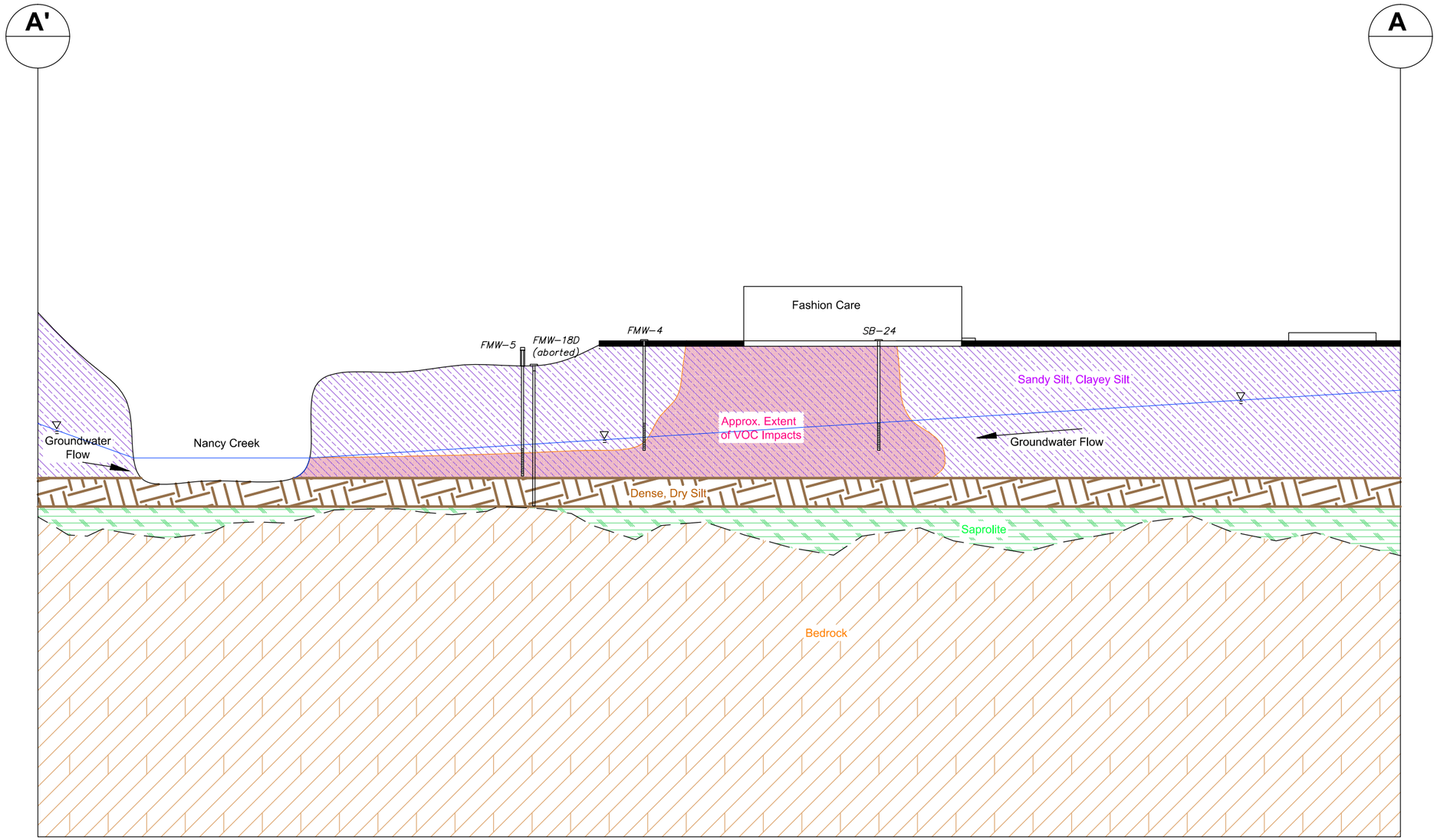
Section 5
Professional Services Hours This Period

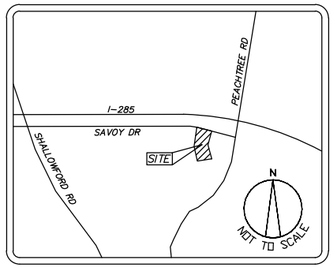
A total of approximately 215.75 professional service hours have been completed by Woodard & Curran from December 3, 2013 through July 2, 2014. Of these total hours, 92 hours were utilized by the professional geologist overseeing the VRP project. The approximate distribution of hours utilized for implementation of the VRP during this period is presented below.

Company	Month/Year	Project Manager / P.G. hours	Total Hours Worked
Woodard & Curran	December 2013	10.75	13.50
Woodard & Curran	January 2014	1.50	1.75
Woodard & Curran	February 2014	10.75	10.75
Woodard & Curran	March 2014	11.00	15.50
Woodard & Curran	April 2014	7.50	60.00
Woodard & Curran	May 2014	15.25	33.00
Woodard & Curran	June 2014	35.25	81.25
	Total Hours	**92.00**	**215.75**

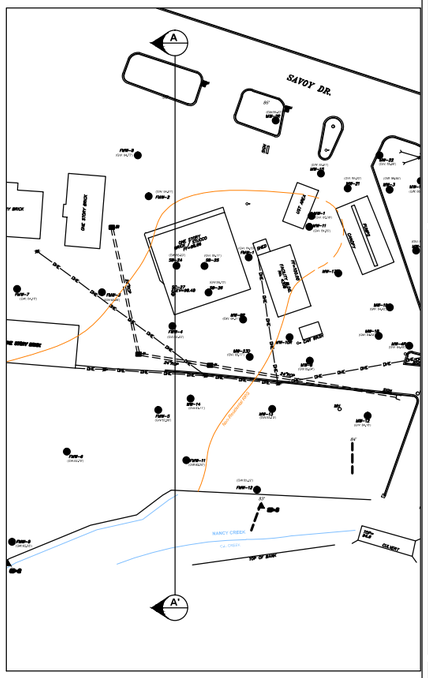
Note: The above hours do not include subcontractor hours worked for Woodard & Curran.

Figures





VICINITY MAP



0' 30' 60' 90'

Approximate
SCALE

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COMMITMENT & INTEGRITY DRIVE RESULTS

WOODARD & CURRAN

FIGURE 1
CONCEPTUAL SITE MODEL

DESIGNED BY:
DRAWN BY: BRM
CHECKED BY:
CSM – june 2014.dwg

Fashion Care
Executive Care Site

2211 Savoy Drive
Chamblee, GA 30341

JOB NO: 226203
DATE: July 1, 2014
SCALE:

2055 Sugarloaf Circle, Suite 175
Duluth, Georgia 30097
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REV	DESCRIPTION	DATE

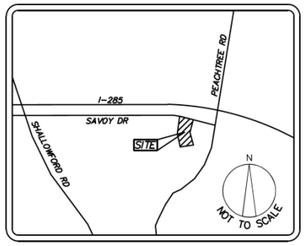
DESIGNED BY:
DRAWN BY:
CHECKED BY:
04-2014 SAMPLE MAP.DWG

FIGURE 2
SAMPLE LOCATION MAP

FASHION CARE
EXECUTIVE CARE SITE

2211 SAVOY DRIVE
CHAMBLEE, GA 30341

JOB NO.:
DATE:
SCALE:
SHEET: OF



VICINITY MAP

LEGEND

- APPROXIMATE PROPERTY LINE
- SD-1 SEDIMENT SAMPLE LOCATION
- MW-17 ABANDONED MONITORING WELL
- FMW-15 [80.95] GROUNDWATER SAMPLE LOCATION
- SW-1 SURFACE WATER SAMPLE LOCATION
- TYPE 1 & 3 RRS
- TYPE 5 CONSTRUCTION WORKER RRS
- TYPE 5 UTILITY WORKER RRS

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

0 30 60
SCALE IN FEET

N

SAVOY DR.

2201 SAVOY DRIVE
18-343-13-003

FASHION CAR/EXECUTIVE CARE
2211 SAVOY DRIVE
18-343-13-002

RESTAURANT

RESTAURANT

EDGE OF ASPHALT

4306 NORTH PEACHTREE ROAD
18-343-13-005

RETAIL / DENTIST

FASHION CLEANERS
DRYCLEANERS

RESTAURANT

EZ-Serve Gas Station Bldg. No. 4308

FF=100.00

UST Area

Canopy

Fuel Pumps

Car Wash

4308 NORTH PEACHTREE ROAD
18-343-13-001

Bus Stop

D.O.T. MH

SIG BOX

Sidewalk

NORTH PEACHTREE RD.

NORTH SHALLOWFORD ROAD
18-333-02-023

EDGE OF ASPHALT

24"RCP

TOP OF BANK

EDGE OF WATER

NANCY CREEK

C.L. CREEK

CULVERT

TOP= 94.6

SEDIMENT SAMPLE COLLECTED DOWN STREAM IN FROM OF CULVERT UNDER SHALLOWFORD ROAD

FMW-1
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.18
TETRACHLOROETHENE (PCE) – 0.0097
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – 0.012
VINYL CHLORIDE – 0.055

FMW-2
ALL ND

FMW-3
ALL ND

FMW-4
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 75
TETRACHLOROETHENE (PCE) – 1.5
TRANS-1,2-DICHLOROETHENE – 0.54
TRICHLOROETHENE (TCE) – 1.1
VINYL CHLORIDE – 2.4

FMW-5
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.059
TETRACHLOROETHENE (PCE) – 0.0073
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – 0.0068
VINYL CHLORIDE – 0.0071

FMW-6
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.87
TETRACHLOROETHENE (PCE) – 2.6
TRANS-1,2-DICHLOROETHENE – 0.016
TRICHLOROETHENE (TCE) – 0.17
VINYL CHLORIDE – 0.0078

FMW-7
ALL ND

FMW-8
ALL ND

FMW-9
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.72
TETRACHLOROETHENE (PCE) – 1.8
TRANS-1,2-DICHLOROETHENE – 0.01
TRICHLOROETHENE (TCE) – 0.13
VINYL CHLORIDE – ND

FMW-10
ALL ND

FMW-11
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – ND
TETRACHLOROETHENE (PCE) – 0.03
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – ND
VINYL CHLORIDE – ND

FMW-12
ALL ND

FMW-13
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.078
TETRACHLOROETHENE (PCE) – 0.23
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – 0.054
VINYL CHLORIDE – 0.002

FMW-14
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.027
TETRACHLOROETHENE (PCE) – 0.027
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – 0.023
VINYL CHLORIDE – ND

FMW-15
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – ND
TETRACHLOROETHENE (PCE) – ND
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – ND
VINYL CHLORIDE – 0.0032

FMW-16
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.0094
TETRACHLOROETHENE (PCE) – ND
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – ND
VINYL CHLORIDE – ND

SB-24
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 2.7
TETRACHLOROETHENE (PCE) – ND
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – ND
VINYL CHLORIDE – ND

SB-25

SB-26
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 13
TETRACHLOROETHENE (PCE) – 12
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – 11
VINYL CHLORIDE – 0.46

SD-1

SD-3

SW-1

SW-2

SW-3

SG-2

MW-1 MW-2R MW-3 MW-4R MW-8 MW-9R MW-10R MW-11 MW-12 MW-13 MW-14 MW-15 MW-16 MW-17 MW-18 MW-19 MW-20 MW-21 MW-22 MW-23D

Drawn By: GHA	Date: 12-11-12
Checked by: J.D.	Project No.

Woodard & Curran
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Duluth, GA 30097
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FIGURE 3
JULY 2012 GROUNDWATER DATA MAP

FASHION CARE/EXECUTIVE CARE VRP SITE (HSI #10786)
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

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REV	DESCRIPTION	DATE

DESIGNED BY:
DRAWN BY:
CHECKED BY:
04-2014 GW CONTOURS.DWG

FIGURE 4
APRIL, 2014 GROUNDWATER DATA MAP

FASHION CARE EXECUTIVE CARE SITE

2211 SAVOY DRIVE
CHAMBLEE, GA 30341

JOB NO.:
DATE:
SCALE:
SHEET: OF

Figure 5
FMW-13 Constituent Concentrations vs. Time

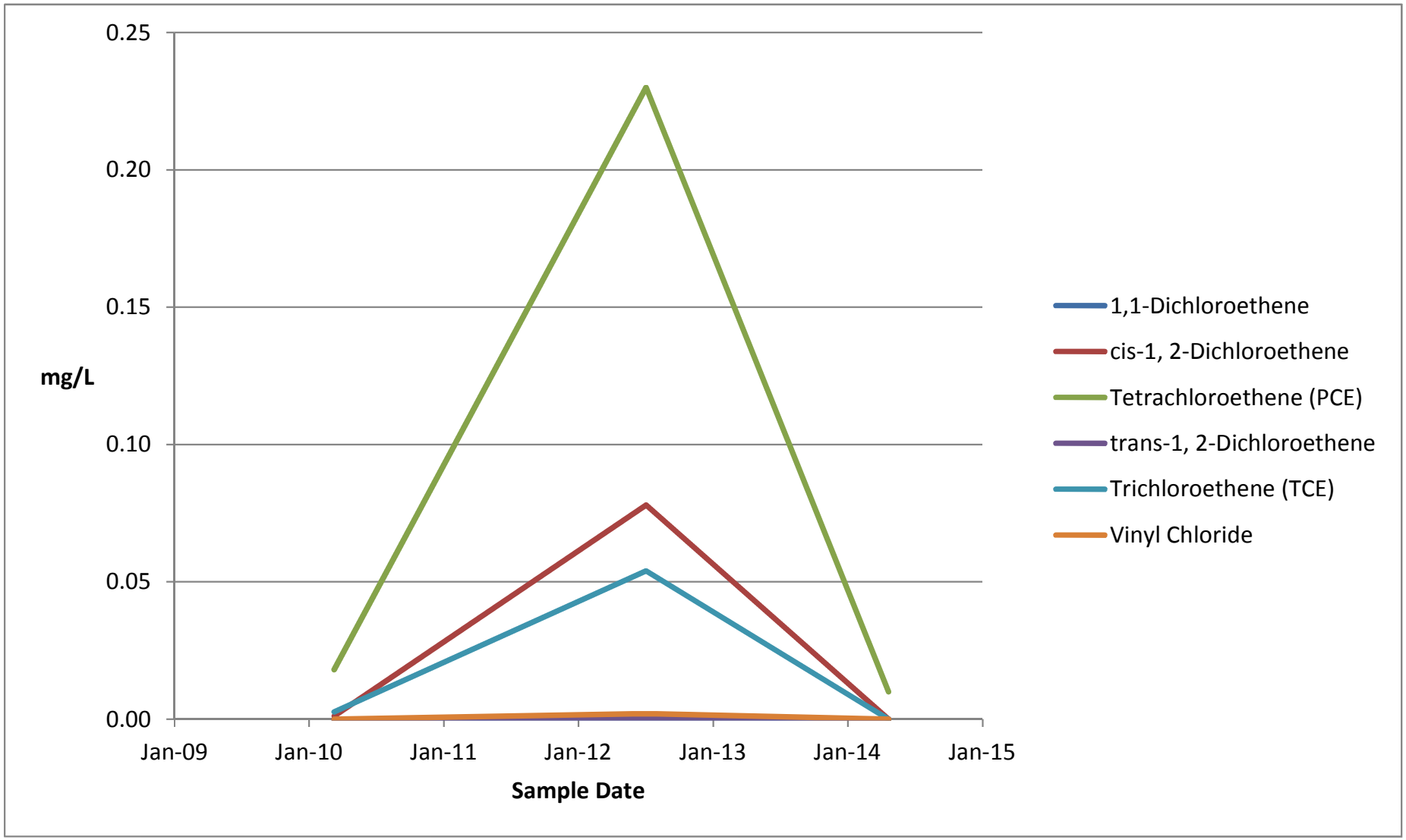

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Figure 6
FMW-14 Constituent Concentrations vs. Time

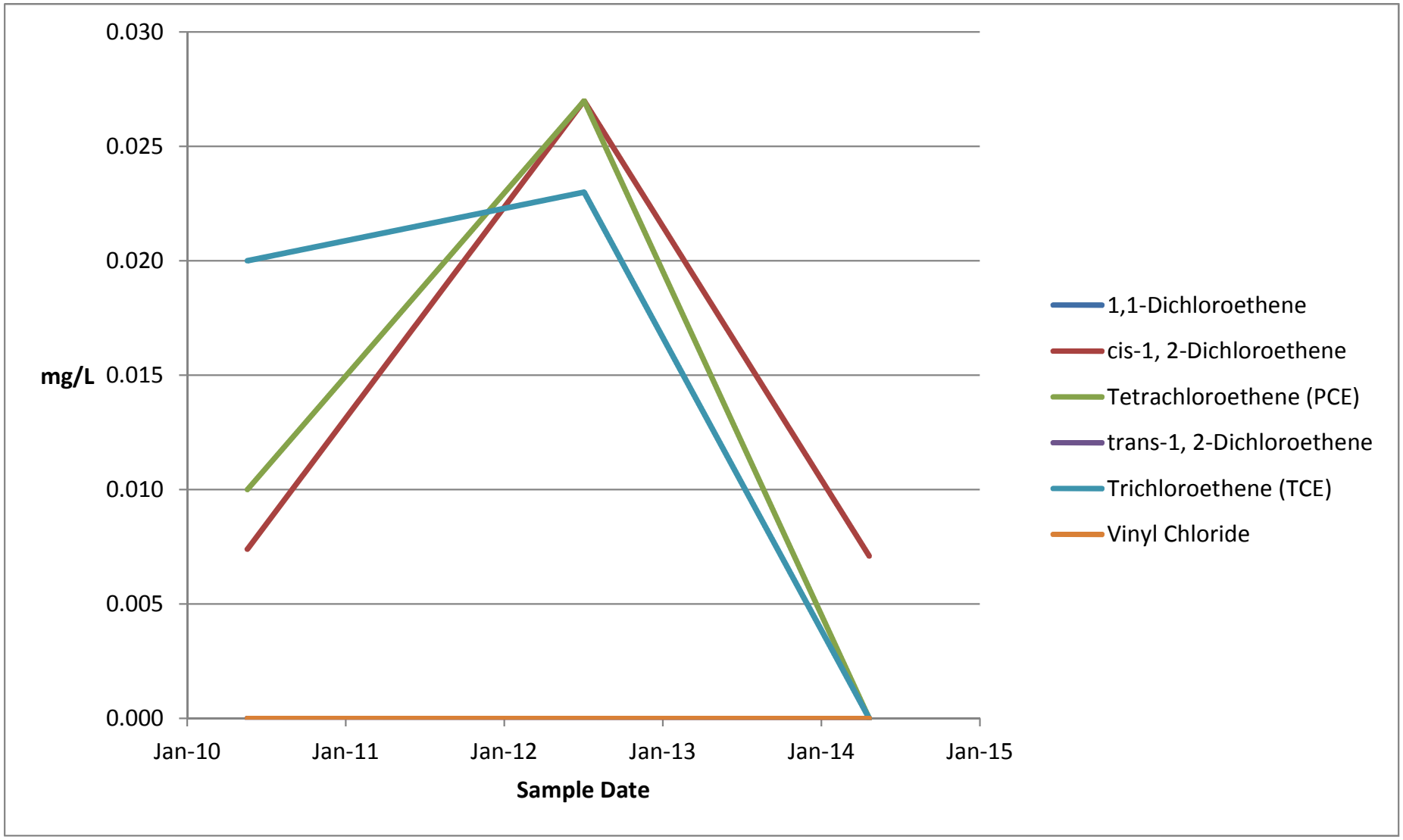

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Figure 7
FMW-15 Constituent Concentrations vs. Time

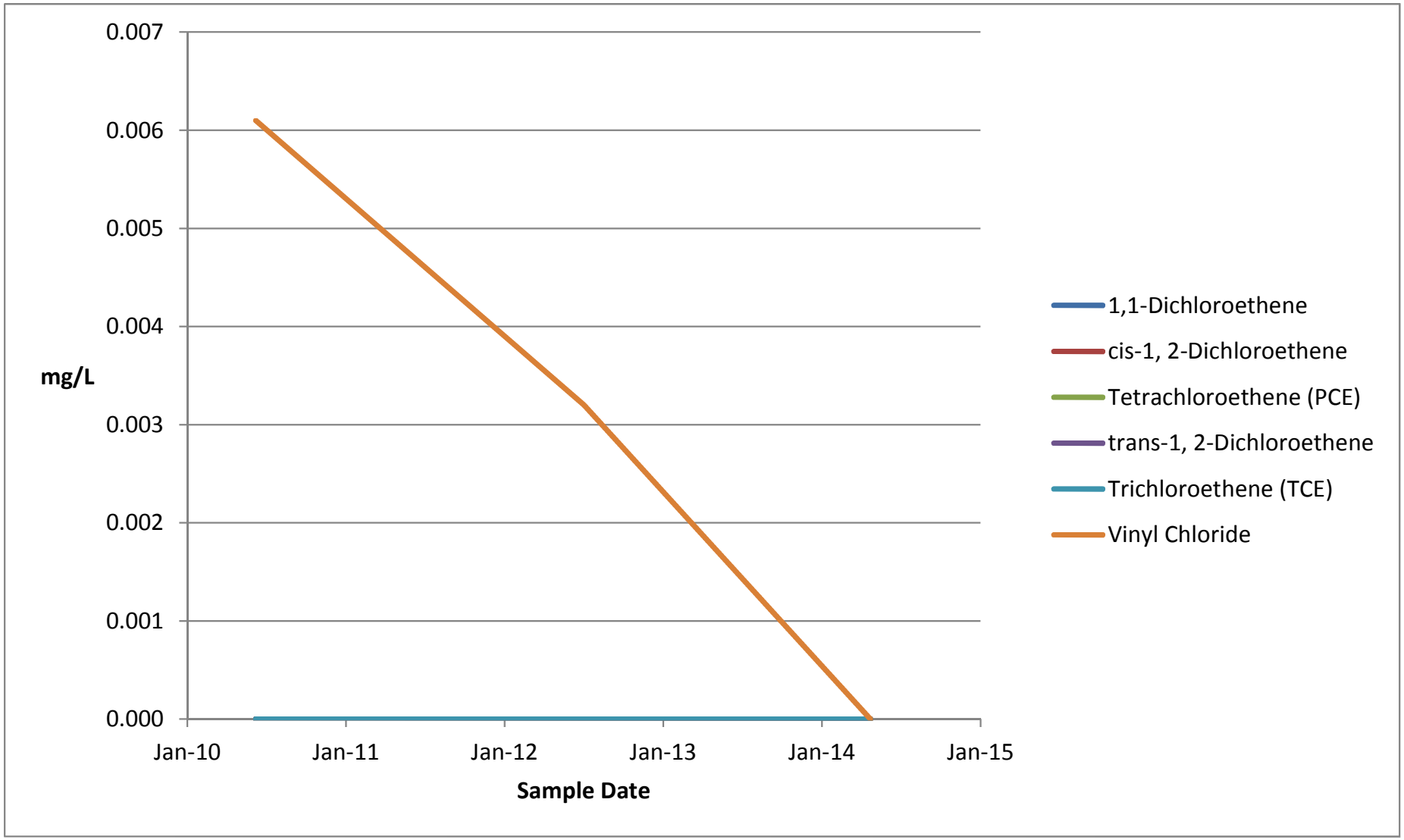

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Figure 8
FMW-16 Constituent Concentrations vs. Time

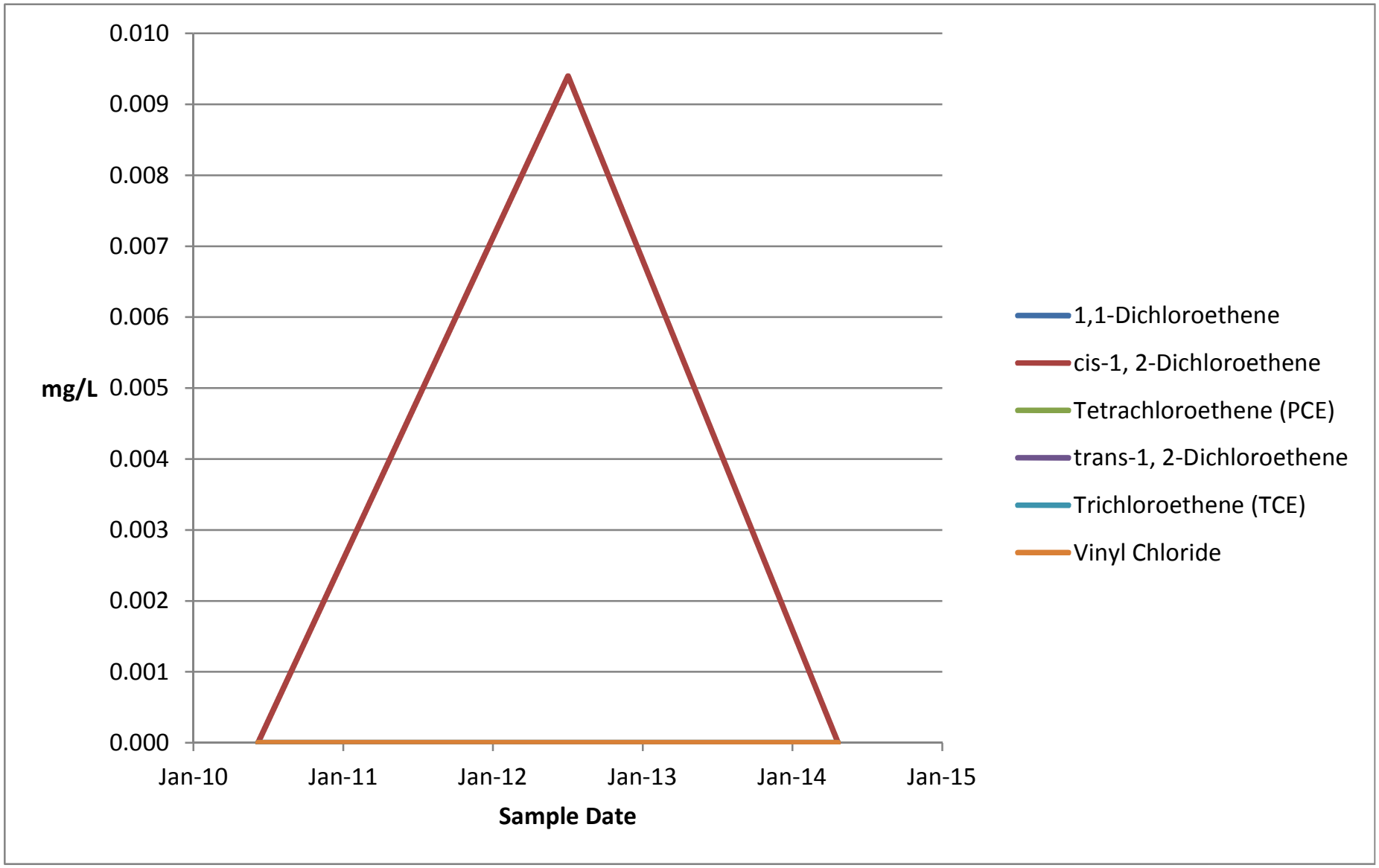

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Figure 9
FMW-4 Constituent Concentrations vs. Time

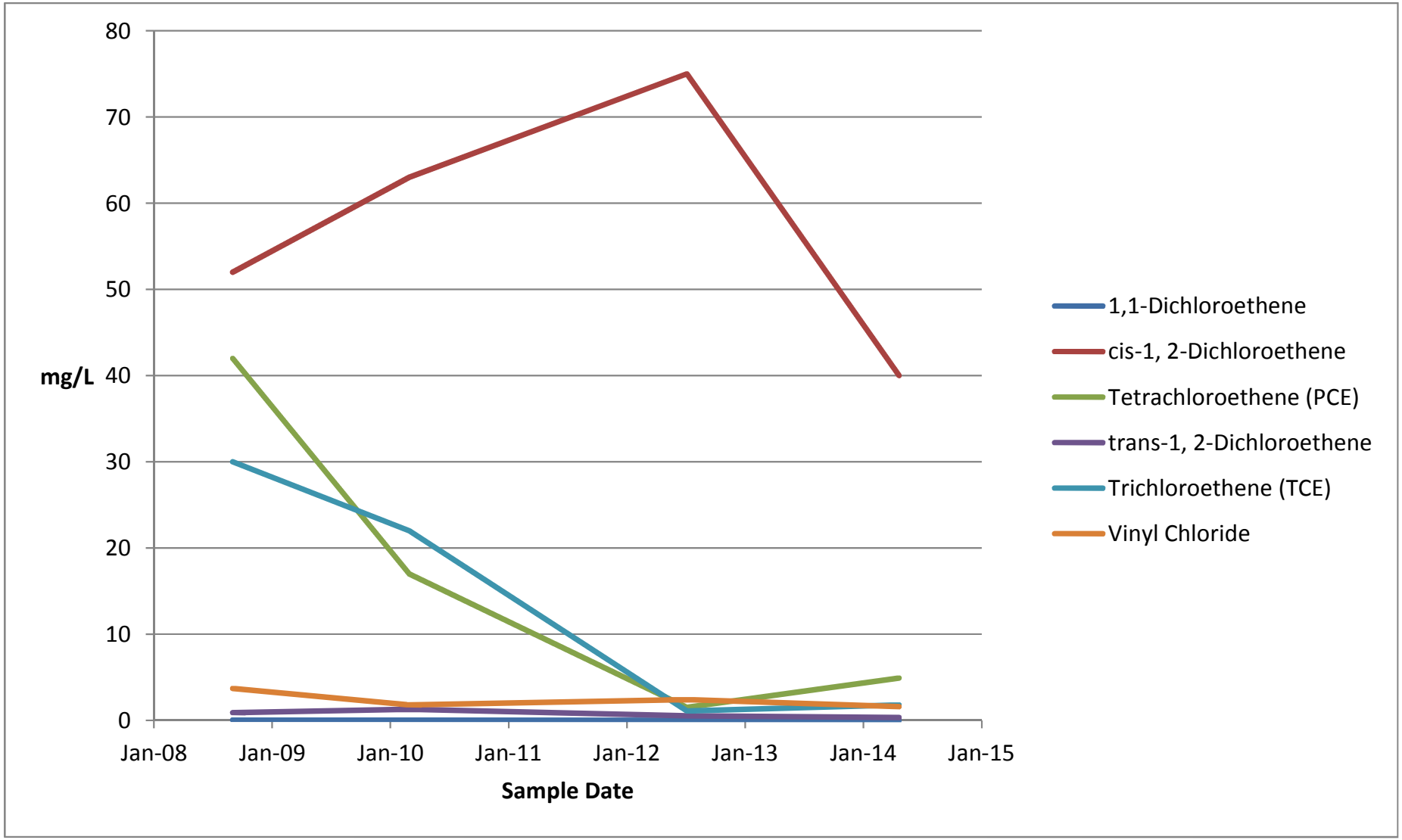

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Figure 10
FMW-5 Constituent Concentrations vs. Time

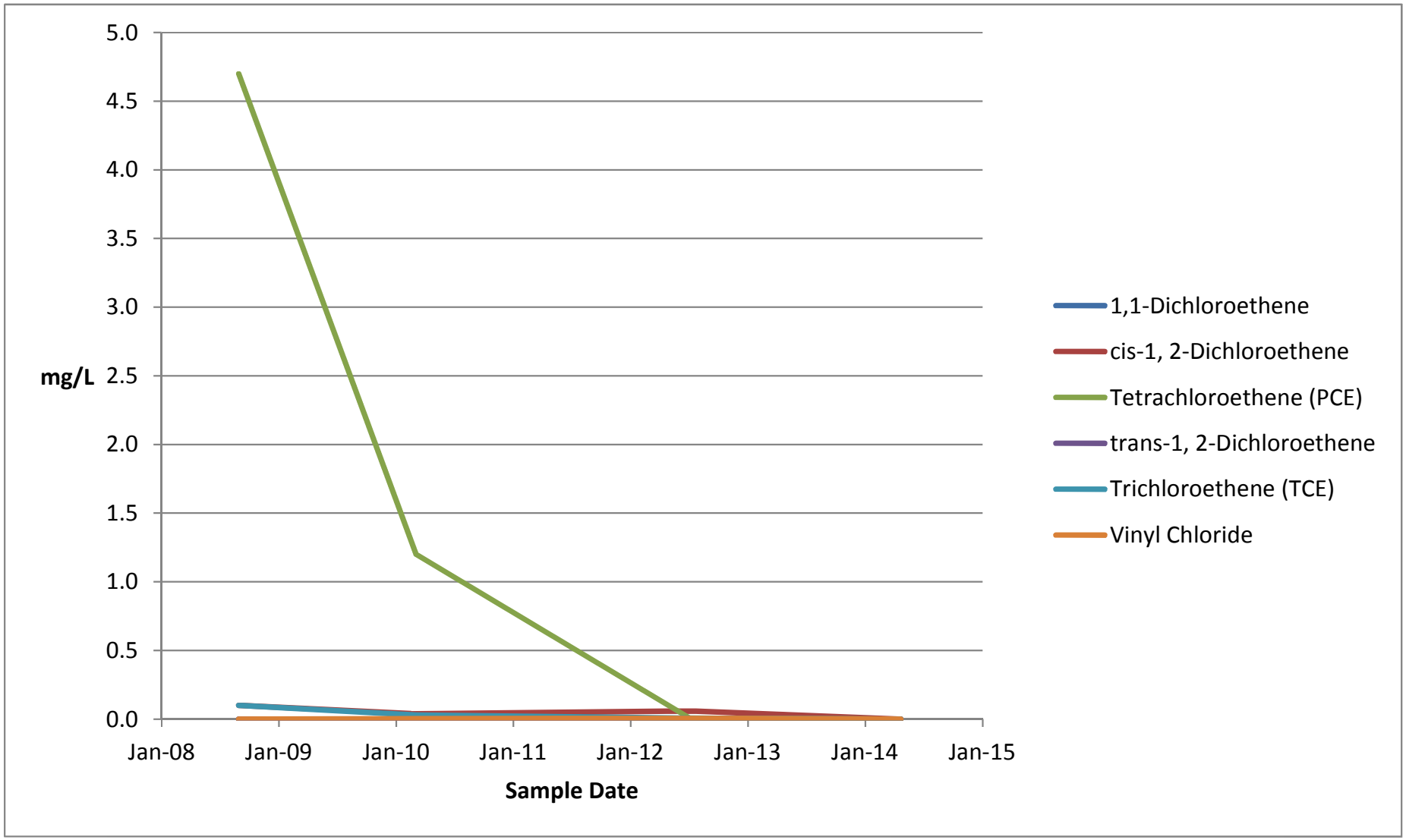

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Figure 11
FMW-6 Constituent Concentrations vs. Time

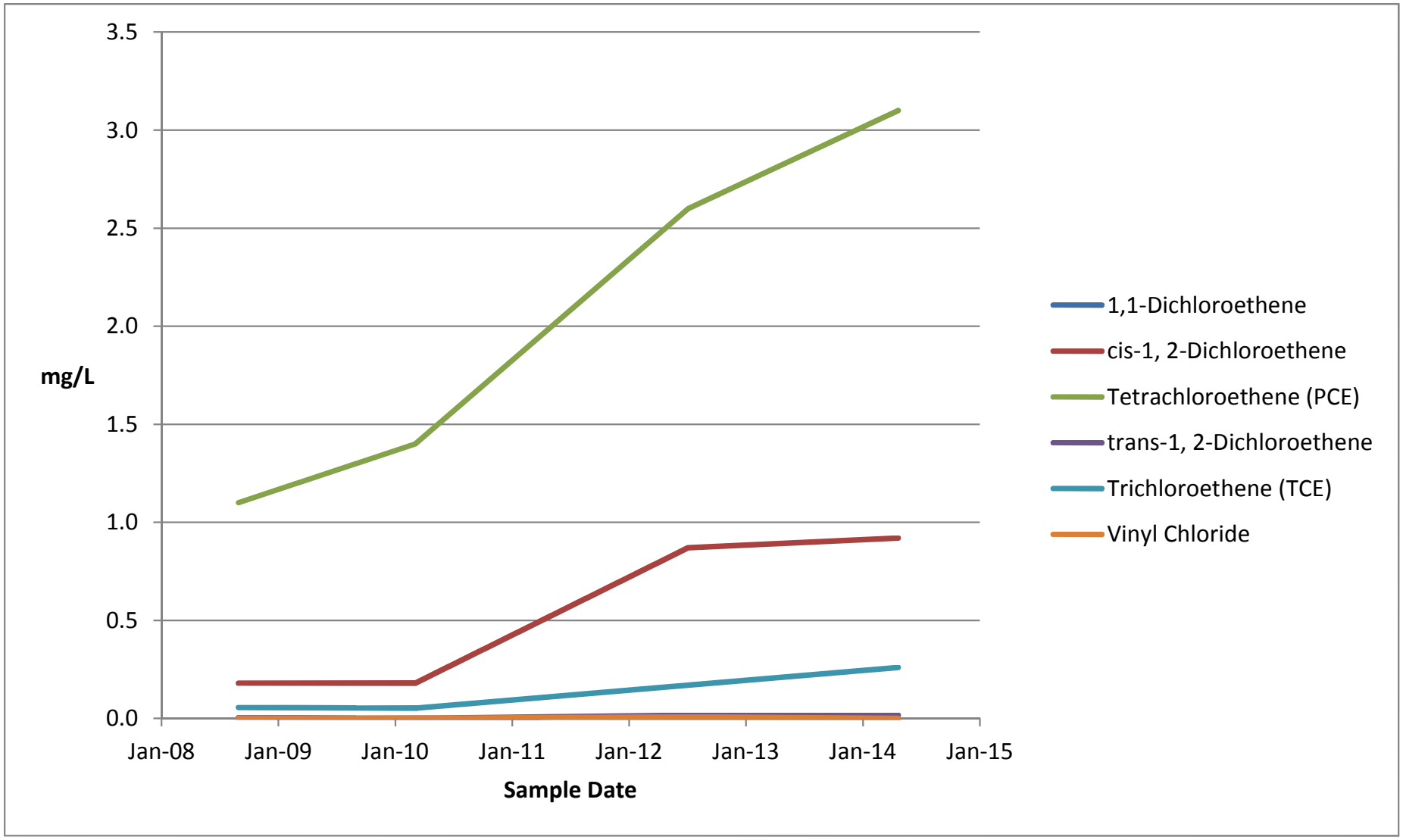

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Figure 12
FMW-9 Constituent Concentrations vs. Time

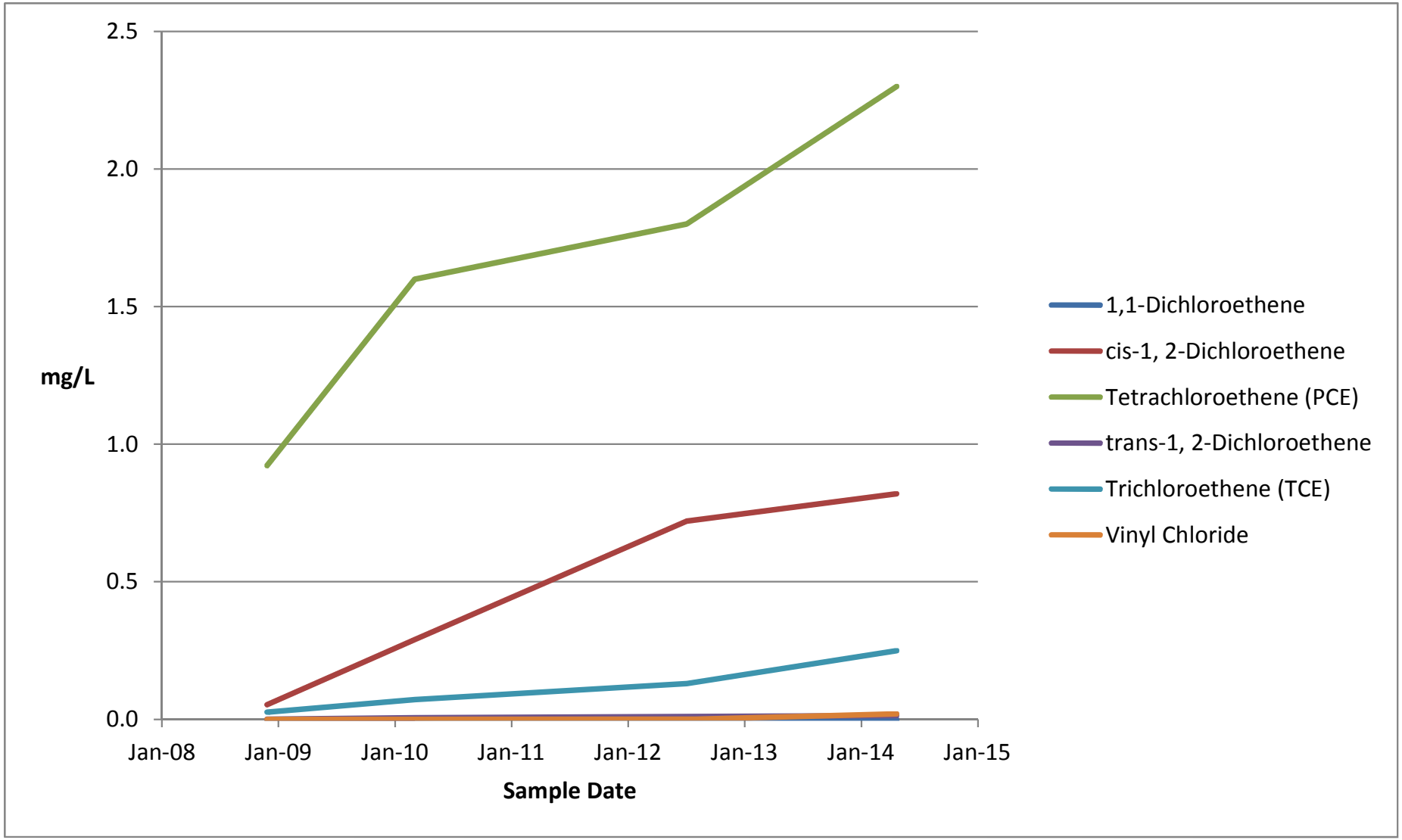

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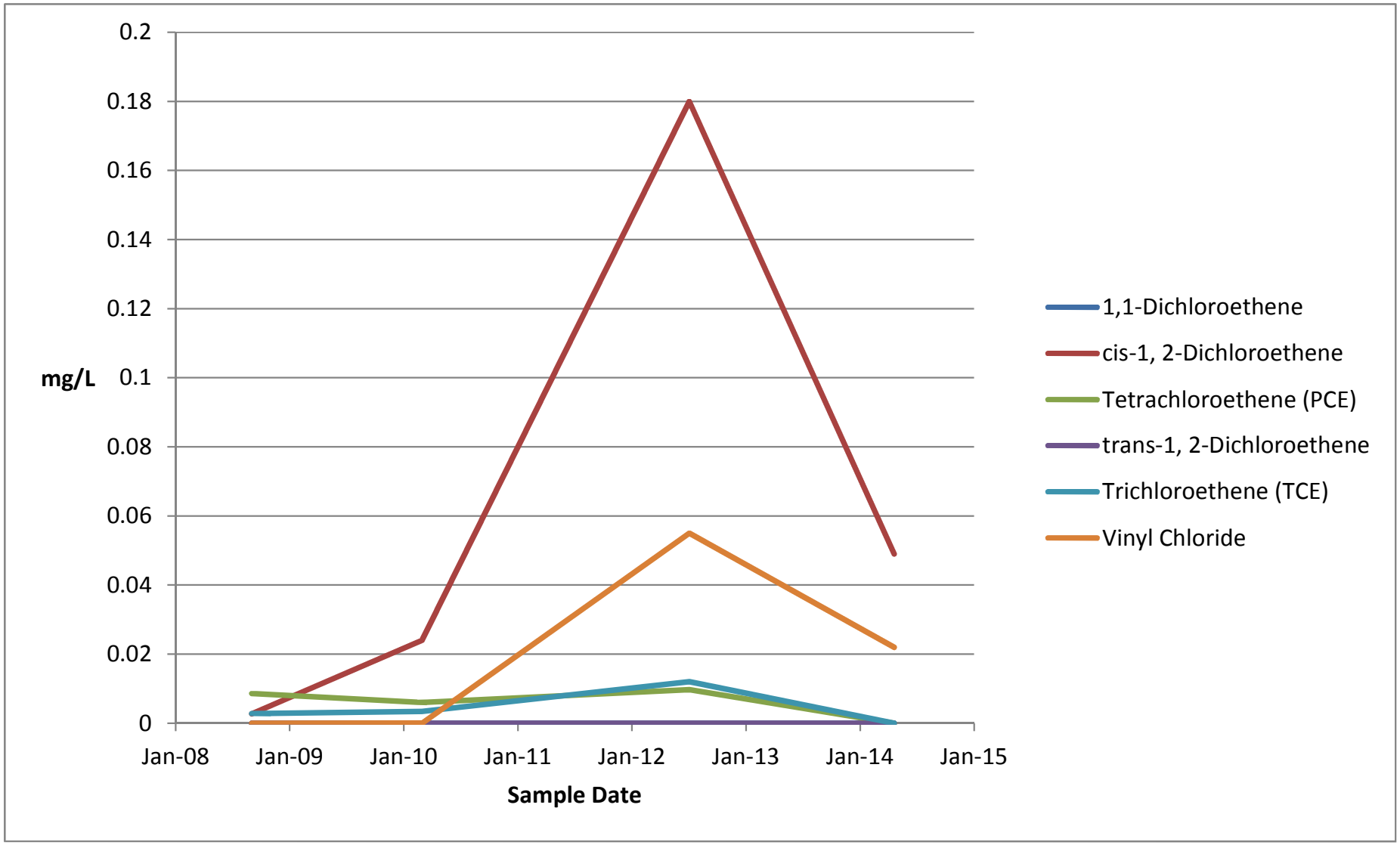
Figure 13
FMW-1 Constituent Concentrations vs. Time



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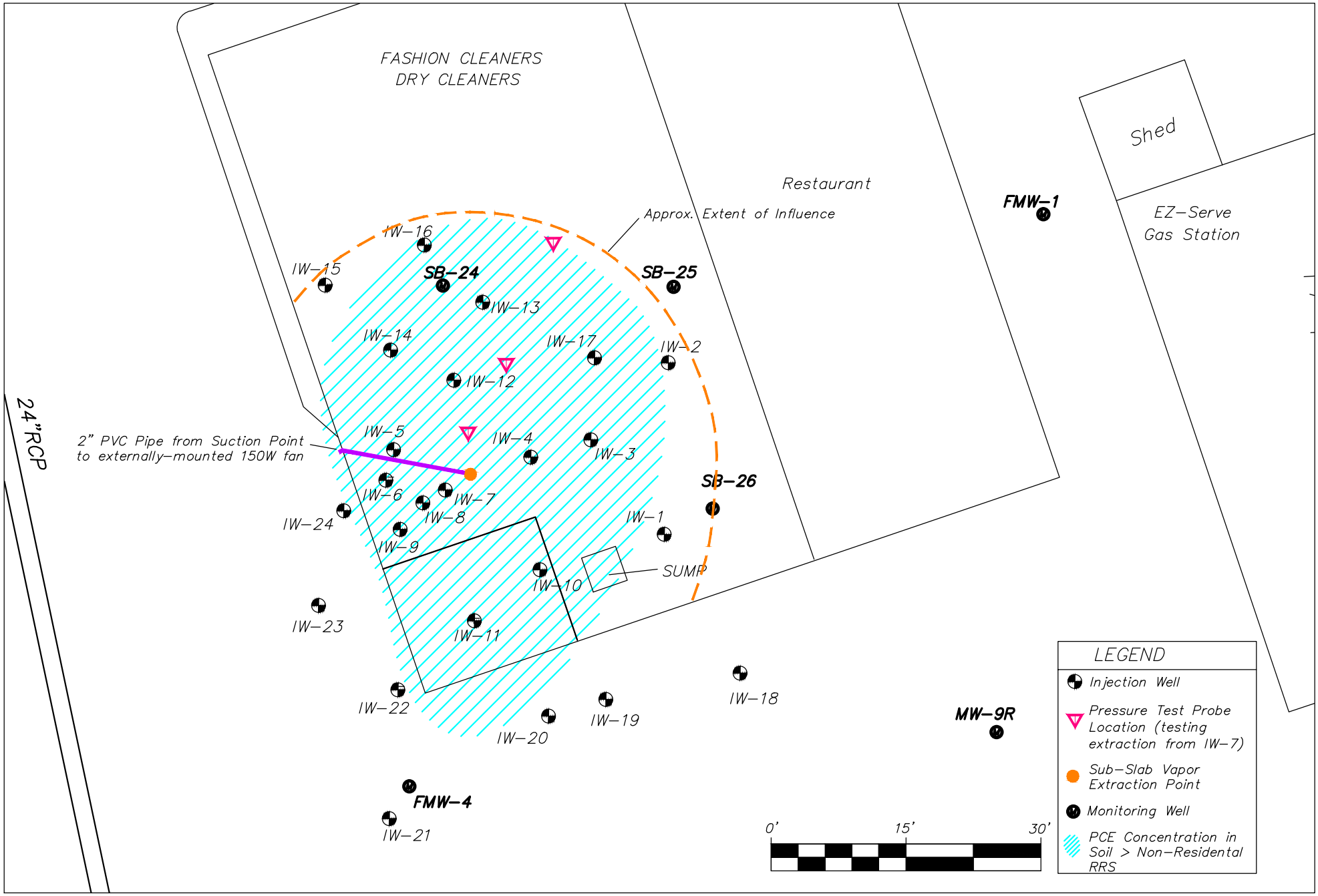

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FIGURE 14
VAPOR INTRUSION
MITIGATION SYSTEM

DESIGNED BY: brm/6-27-14 | CHECKED BY:
DRAWN BY: | VI system.dwg

FASHION CARE
EXECUTIVE CARE SITE

211 SAVOY DRIVE
CHAMBLEE, GA 30341

JOB NO: 206203
DATE: 6/27/2014
SCALE: as shown

Figure 15
Flow Chart – Voluntary Investigation & Remediation Plan Tasks
(Completed tasks are noted.)

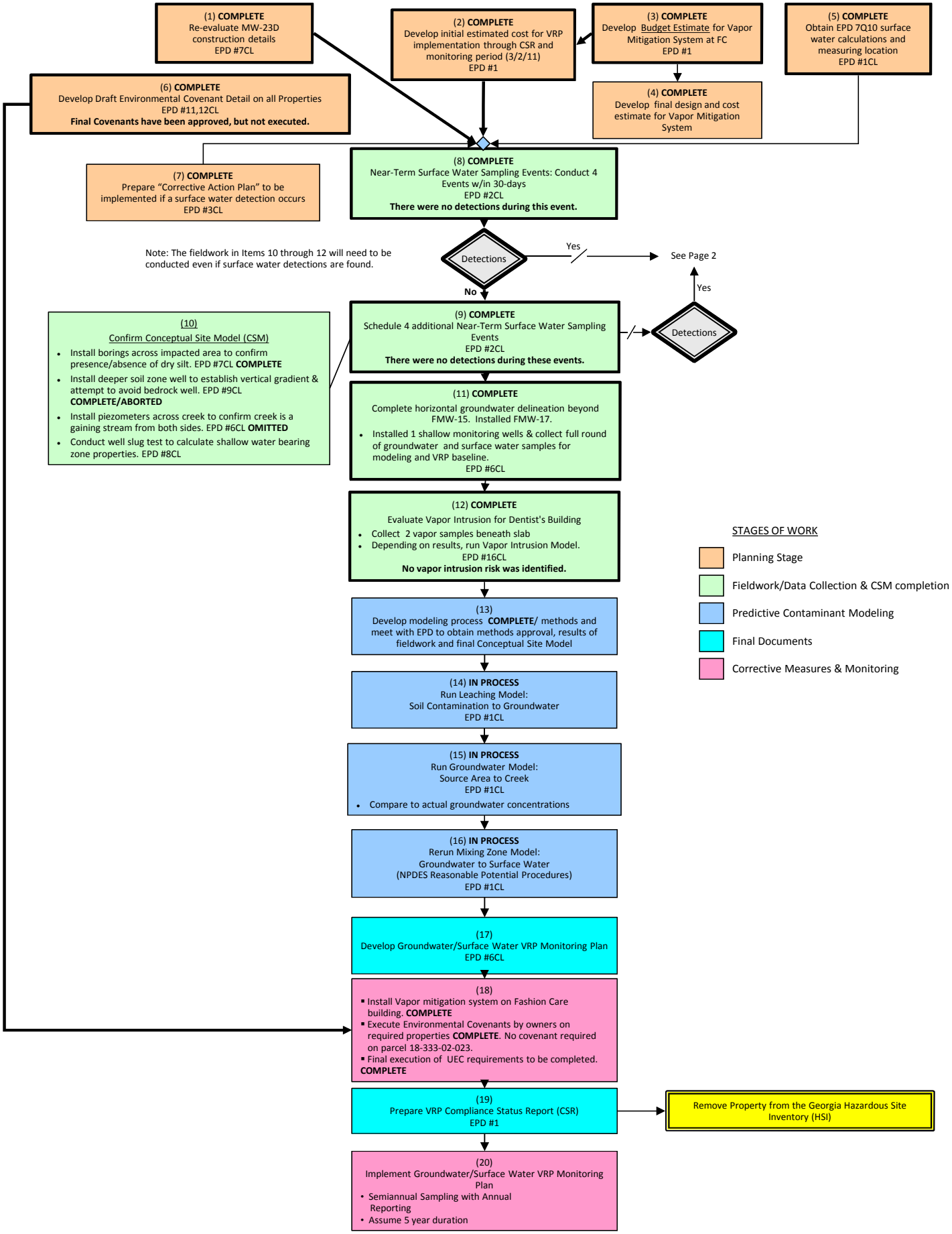
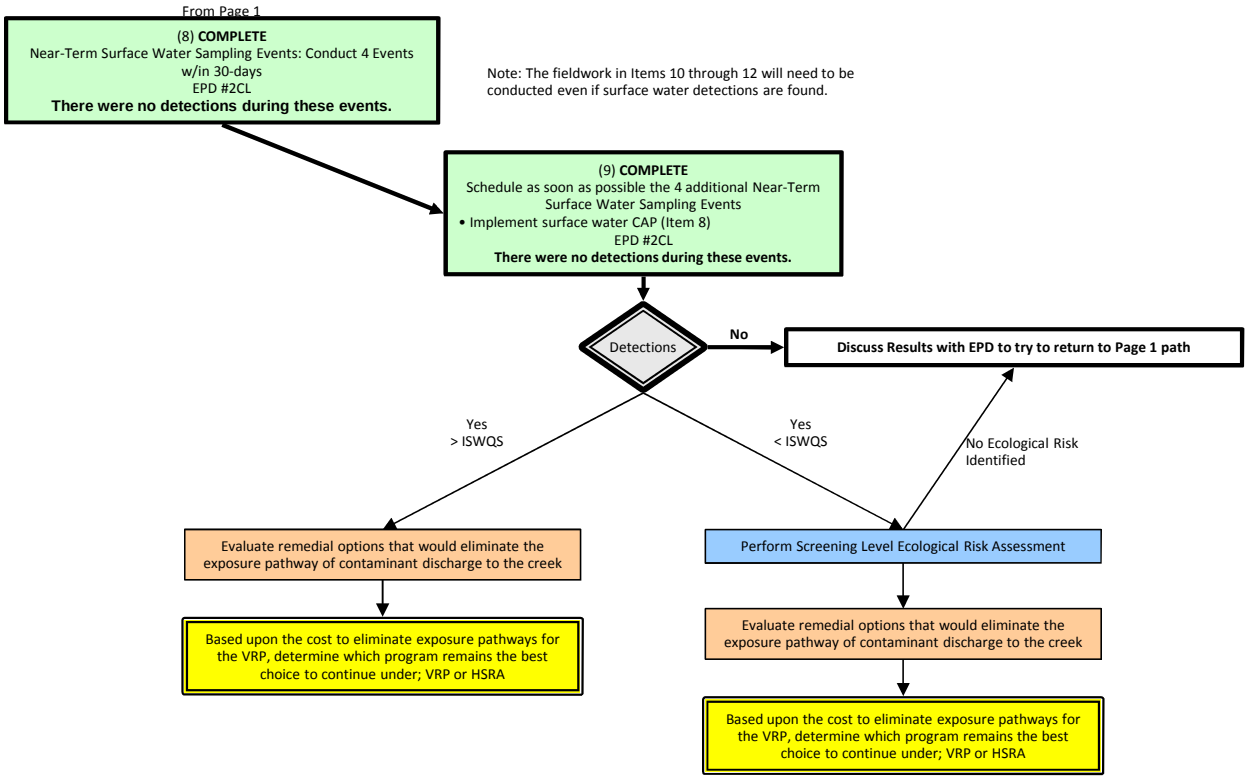


Figure 15 Contd.

Flow Chart – Voluntary Investigation & Remediation Plan Tasks



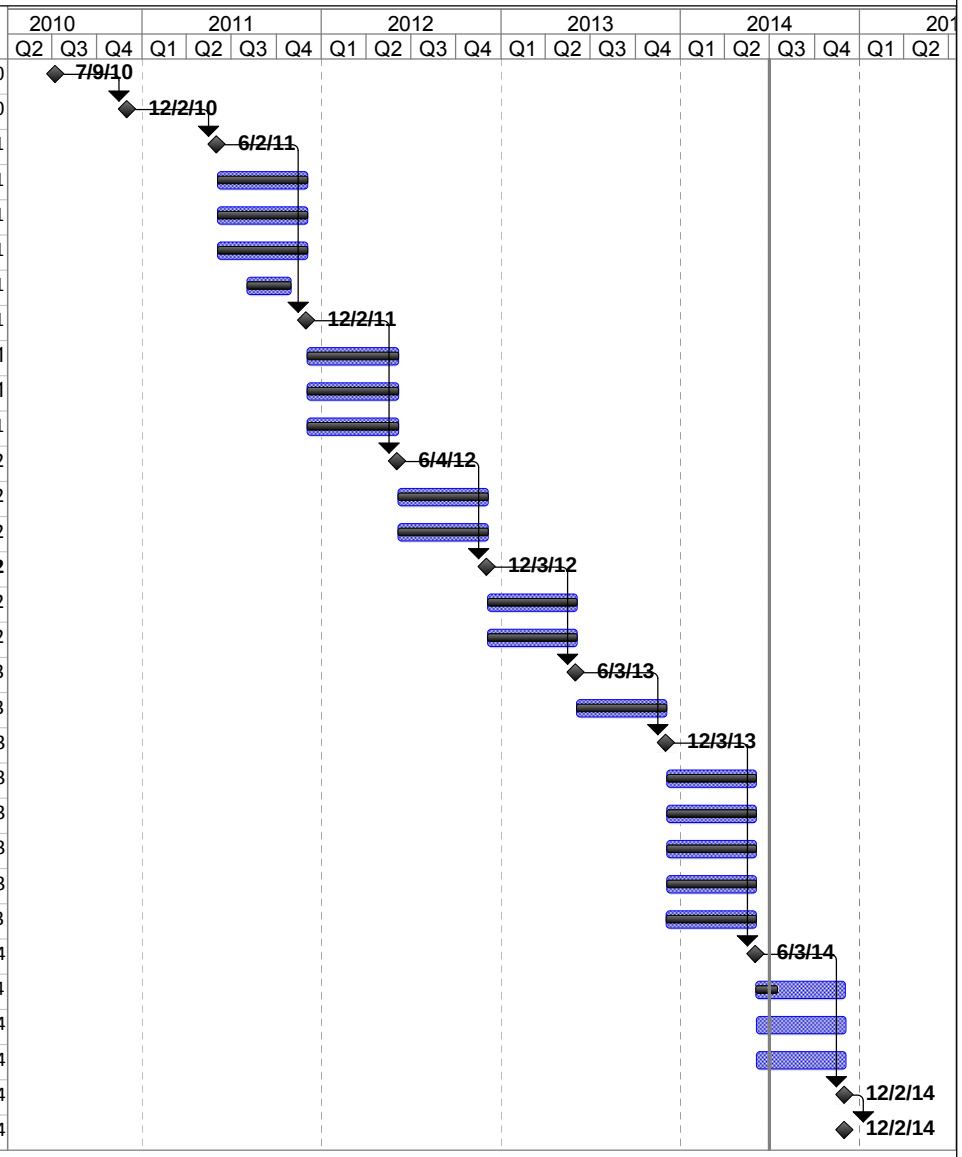
ISWQS = Georgia In-Stream Water Quality Standards

Figure 16

Estimated Voluntary Remediation Plan Schedule

Fashion Care/Executive Care Site, 2211 Savoy Drive, Chamblee, Georgia

ID	Task Name	Duration	Start
1	**VIRP Application Submittal**	0 days	Fri 7/9/10
2	**EPD Approval of VIRP**	0 days	Thu 12/2/10
3	**1st VIRP Status Report**	0 days	Thu 6/2/11
4	Vapor Sampling Evaluation/J&E Modeling	132 days	Thu 6/2/11
5	Revise Draft Ecs	132 days	Thu 6/2/11
6	Final Design for Vapor Mitigation System	132 days	Thu 6/2/11
7	Conduct 8 Surface Water Sampling Events	65 days	Mon 8/1/11
8	**2nd VIRP Status Report**	0 days	Fri 12/2/11
9	Finalize J&E Vapor Models	132 days	Fri 12/2/11
10	Finalize Utility & Construction Worker Standards	132 days	Fri 12/2/11
11	Finalize Environmental Covenants	132 days	Fri 12/2/11
12	**3rd VIRP Status Report**	0 days	Mon 6/4/12
13	Full Round of Groundwater & Surface Water Samples	131 days	Mon 6/4/12
14	Execute Environmental Covenants (2 of 3)	131 days	Mon 6/4/12
15	**4th VIRP Status Report**	**0 days**	**Mon 12/3/12**
16	Attempt to Execute ASL Environmental Covenant	131 days	Mon 12/3/12
17	Complete Horizontal Groundwater Delineation	131 days	Mon 12/3/12
18	**5th VIRP Status Report**	0 days	Mon 6/3/13
19	Fieldwork to Confirm CSM	131 days	Mon 6/3/13
20	**6th VIRP Status Report**	0 days	Tue 12/3/13
21	Collect Additional Round of GW and SW Samples	131 days	Tue 12/3/13
22	Prepare Surface Water CAP	131 days	Tue 12/3/13
23	Complete Filing of Environmental Covenants	131 days	Tue 12/3/13
24	Complete Vertical Groundwater Delineation	131 days	Tue 12/3/13
25	Install Vapor Mitigation System - Fashion Care Building	131 days	Mon 12/2/13
26	**7th VIRP Status Report**	0 days	Tue 6/3/14
27	Site Fate & Transport Modeling	131 days	Mon 6/2/14
28	Prepare VRP Groundwater & Surface Water Monitoring Plan	131 days	Tue 6/3/14
29	Prepare VRP CSR	131 days	Tue 6/3/14
30	**Submit VRP CSR**	0 days	Tue 12/2/14
31	**Implement Groundwater & Surface Water Monitoring Plan**	0 days	Tue 12/2/14



Tables

Table 1
Groundwater Data through April 2014 - Detected Constituents
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		FMW-1	FMW-1[3]	FMW-1	DUP 1 (FMW-1)	FMW-1	DUP 1 (FMW-1)	FMW-2	FMW-2[3]	FMW-2	FMW-3	FMW-3[3]	FMW-3	FMW-4	FMW-4[3]	FMW-4	FMW-4
	Date Sampled			Construction Worker	Utility Worker	9/8/08	3/8/10	7/11/12	7/11/12	4/28/14	4/28/14	9/8/08	3/8/10	7/11/12	9/8/08	3/9/10	7/12/12	9/8/08	3/8/10	7/12/12	4/29/14
Volatile Organic Compounds																					
Fashion Care HSRA Site Constituents of Interest																					
1,1-Dichloroethene		75-35-4	0.007	0.577	4.12	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.5	<0.5	<0.001	<0.005	<0.005	**0.061**	**0.038**	<0.5	**0.027**
1,1,2-Trichloroethane		79-00-5	0.005							<0.005	<0.005										**0.014**
cis-1, 2-Dichloroethene		156-59-2	0.53	12.8	91.3	0.0027	0.024	0.18	0.16	0.049	0.046	0.11	0.16J	<0.5	0.0048	<0.005	<0.005	**52.0**	**63.0**	**75**	**40**
Tetrachloroethene (PCE)		127-18-4	0.005**	0.286	0.082	**0.0086**	**0.006**	**0.0097**	**0.0087**	<0.005	<0.005	**0.06**	<0.5	<0.5	**0.016**	<0.005	<0.005	**42.0**	**17.0**	**1.5**	**4.9**
trans-1, 2-Dichloroethene		156-60-5	0.1	0.174	1.24	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	0.0057	<0.5	<0.5	<0.001	<0.005	<0.005	**0.90**	**1.3**	**0.54**	**0.32**
Trichloroethene (TCE)		79-01-6	0.005**	1.02	0.290	0.0028	0.0034J	**0.012**	0.01	<0.005	<0.005	**0.027**	<0.5	<0.5	**0.0057**	<0.005	<0.005	**30.0**	**22.0**	**1.1**	**1.8**
Vinyl Chloride		75-01-4	0.002**	0.27	0.097	<0.001	<0.002	**0.055**	**0.05**	**0.022**	**0.021**	<0.001	<0.2	<0.2	<0.001	<0.002	<0.002	**3.7**	**1.8**	**2.4**	**1.6**
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laboratory Artifacts																					
1,2-Dichlorobenzene		95-50-1	NA(1)			<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.5	<0.5	<0.001	<0.005	<0.005	0.019	0.01	<0.5	0.0052
Acetone		67-64-1	4			<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.002	<0.5	<5	<0.002	<0.05	<0.05	<0.002	0.094	<5	<0.05
Chlorobenzene		108-90-7	NA(1)			<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.5	<0.5	<0.001	<0.005	<0.005	0.0036	0.002J	<0.5	<0.005
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																					
1,2-Dibromoethane (EDB)		106-93-4	PRC			<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	0.013	<0.5	<0.5	<0.001	<0.005	<0.005	<0.001	<0.005	<0.5	<0.005
1, 2-Dichloroethane		107-06-2	PRC			<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	0.4	<0.5	<0.5	<0.001	<0.005	<0.005	<0.001	<0.005	<0.5	<0.005
2-Butanone (MEK)		78-93-3	PRC			<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	0.19	<5.0	<5.0	<0.002	<0.05	<0.05	<0.002	<0.05	<5.0	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC			<0.002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<1.0	<1.0	<0.002	<0.01	<0.01	<0.002	0.076	<1.0	0.012
Benzene		71-43-2	PRC			0.83	1.2	1.2	0.74	0.24	0.28	13.0	14.0	13	0.16	0.19	0.07	2.0	3.7	5	3.1
Cyclohexane		110-82-7	PRC			0.045	0.1	0.19	0.23	0.061	0.07	0.14	<0.5	<0.5	0.035	0.053	0.042	<0.001	0.069	<0.5	0.064
Ethylbenzene		100-41-4	PRC			0.33	0.6	0.63	0.4	0.25	0.27	2.6	3.0	2.7	0.19	0.0075	<0.005	0.465	0.89	1.3	0.53
Isopropylbenzene		98-82-8	PRC			0.013	0.027	0.044	0.043	0.014	0.016	0.082	0.095J	0.5	0.017	0.034	0.019	0.019	0.038	0.5	0.041
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC			2.4	3.2	1.1	18	1.4	1.6	0.93	1.1	1.4	<0.002	0.0012J	<0.005	0.945	1.3	1.6	0.7
Styrene		100-42-5	PRC			<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.5	<0.5	<0.001	<0.005	<0.005	<0.001	<0.005	<0.5	<0.005
Toluene		108-88-3	PRC			0.054	3.4	3.3	2.1	0.77	0.87	6.0	15.0	7.9	0.0075	0.0065	<0.005	4.1	7.1	1.8	0.6
Xylenes, Total		1330-20-7	PRC			0.445	2.34	2.67	16.6	0.90	0.95	14.7	16.9	16.4	0.8884	0.019	0.0078	1.6	3.7	0.71	0.45

NOTES:

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker
NA(1)	Not Applicable - fumigant-insecticide properly applied
NA(2)	Not Applicable - Petroleum related constituent which has no In-Stream Water Quality Standard
NR	Not regulated
*	Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Type 1 RRS has a higher value.
**	RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS in Condition 8.
FPP	Free-phase petroleum present in the monitoring well

Table 1
Groundwater Data through April 2014 - Detected Constituents
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		FWM-5	FWM-5	FMW-5	FMW-5	FMW-6	FMW-6	FMW-6	FMW-6	FMW-7	FMW-7	FMW-7	FMW-8	FMW-8[3]	FMW-8	FMW-9	FMW-9	FMW-9	FMW-9
	Date Sampled			Construction Worker	Utility Worker	9/5/08	3/11/10	7/11/12	4/29/14	9/5/08	3/11/10	7/11/12	4/29/14	12/3/08	3/9/10	7/12/12	12/2/08	3/8/10	7/11/12	12/3/08	3/11/10	7/10/12	4/29/14
Volatile Organic Compounds																							
Fashion Care HSRA Site Constituents of Interest																							
1,1-Dichloroethene		75-35-4	0.007	0.577	4.12	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005
1,1,2-Trichloroethane		79-00-5	0.005						<0.005				<0.005										<0.005
cis-1, 2-Dichloroethene		156-59-2	0.53	12.8	91.3	0.1	0.039	0.059	<0.005	0.18	0.18	**0.87**	**0.92**	<0.001	<0.005	<0.005	0.00236	0.0022J	<0.005	0.0534	0.29	**0.72**	**0.82**
Tetrachloroethene (PCE)		127-18-4	0.005**	0.286	0.082	**4.7**	**1.2**	**0.0073**	<0.005	**1.1**	**1.4**	**2.6**	**3.1**	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	**0.922**	**1.6**	**1.8**	**2.3**
trans-1, 2-Dichloroethene		156-60-5	0.1	0.174	1.24	<0.001	<0.005	<0.005	<0.005	0.0036	<0.005	0.016	0.016	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	0.00086	0.0062	0.01	0.014
Trichloroethene (TCE)		79-01-6	0.005**	1.02	0.290	**0.1**	**0.029**	**0.0068**	<0.005	**0.056**	**0.052**	**0.17**	**0.26**	<0.001	<0.005	<0.005	<0.001	0.001J	<0.005	**0.0262**	**0.072**	**0.13**	**0.25**
Vinyl Chloride		75-01-4	0.002**	0.27	0.097	<0.001	**0.0028**	**0.0071**	<0.002	<0.001	<0.002	**0.0078**	<0.002	<0.001	<0.002	<0.002	<0.001	<0.002	<0.002	<0.001	<0.002	<0.002	**0.02**
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laborat																							
1,2-Dichlorobenzene		95-50-1	NA(1)			<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005
Acetone		67-64-1	4			<0.002	<0.05	<0.05	<0.05	<0.002	<0.05	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	<0.05
Chlorobenzene		108-90-7	NA(1)			<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																							
1,2-Dibromoethane (EDB)		106-93-4	PRC			<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005
1, 2-Dichloroethane		107-06-2	PRC			<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	0.0013J	<0.005	0.00215	<0.005	<0.005	<0.005
2-Butanone (MEK)		78-93-3	PRC			<0.002	<0.05	<0.05	<0.05	<0.002	<0.05	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC			<0.002	<0.01	<0.01	<0.01	<0.002	<0.01	<0.01	<0.01	<0.002	<0.01	<0.01	0.0102	<0.01	<0.01	<0.002	<0.01	<0.01	<0.01
Benzene		71-43-2	PRC			0.0018	<0.005	<0.005	<0.005	0.0018	<0.005	0.013	<0.005	<0.001	<0.005	<0.005	3.07	2.4	2.5	0.00065	<0.005	<0.005	0.035
Cyclohexane		110-82-7	PRC			<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	0.18	0.37	<0.25	<0.001	<0.005	<0.005	<0.005
Ethylbenzene		100-41-4	PRC			<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	2.72	2.2	2.3	0.00052	<0.005	<0.005	<0.005
Isopropylbenzene		98-82-8	PRC			<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	0.0823	0.086	0.091	<0.001	<0.005	<0.005	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC			0.022	<0.005	<0.005	<0.005	0.26	0.064	0.31	0.052	<0.002	<0.005	<0.005	<0.002	<0.005	<0.005	0.615	0.19	0.4	0.26
Styrene		100-42-5	PRC			<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	0.0213	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005
Toluene		108-88-3	PRC			<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	7.71	5.5	2.5	0.00196	<0.005	<0.005	<0.005
Xylenes, Total		1330-20-7	PRC			<0.002	<0.01	<0.005	<0.005	<0.002	<0.01	<0.005	<0.005	<0.002	<0.01	<0.005	14.97	12.1	13.3	0.00285	<0.01	<0.005	<0.005

NOTES:

BOLD Exceeds HSRA Type 1&3 RRS
BOLD Exceeds HSRA Type 5 RRS-Construction Worker
BOLD Exceeds HSRA Type 5 RRS-Utility Worker
NA(1) Not Applicable - fumigant-insecticide properly applied
NA(2) Not Applicable - Petroleum related constituent which has no In-Stream Wat
NR Not regulated
* Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Typ
** RRS is taken from EPD CAP approval letter dated December 28, 2007, table
FPP Free-phase petroleum present in the monitoring well

Table 1
Groundwater Data through April 2014 - Detected Constituents
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		FMW-10	FMW-10	FMW-10	FMW-11	FMW-11	FMW-11	FMW-12[3]	FMW-12	FMW-13(3)	FMW-13	FMW-13	FMW-14	FMW-14	FMW-14	FMW-15	FMW-15	FMW-15
	Date Sampled			Construction Worker	Utility Worker	12/2/08	3/11/10	7/11/12	12/2/08	3/11/10	7/11/12	3/17/10	7/12/12	3/17/10	7/10/12	4/29/14	5/27/10	7/11/12	4/29/14	6/15/10	7/10/12	4/30/14
Volatile Organic Compounds																						
Fashion Care HSRA Site Constituents of Interest																						
1,1-Dichloroethene		75-35-4	0.007	0.577	4.12	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane		79-00-5	0.005													<0.005			<0.005			<0.005
cis-1, 2-Dichloroethene		156-59-2	0.53	12.8	91.3	0.0445	0.11	<0.005	0.00288	0.01	<0.005	0.0014J	<0.005	0.0011J	0.078	<0.005	**0.0074**	0.027	0.0071	<0.005	<0.005	<0.005
Tetrachloroethene (PCE)		127-18-4	0.005**	0.286	0.082	<0.001	<0.005	<0.005	**0.0394**	**0.044**	**0.03**	0.0046J	<0.005	**0.018**	**0.23**	**0.01**	**0.01**	**0.027**	<0.005	<0.005	<0.005	<0.005
trans-1, 2-Dichloroethene		156-60-5	0.1	0.174	1.24	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene (TCE)		79-01-6	0.005**	1.02	0.290	<0.001	**0.028**	<0.005	**0.00573**	**0.011**	<0.005	<0.005	<0.005	0.0026J	**0.054**	<0.005	**0.02**	**0.023**	<0.005	<0.005	<0.005	<0.005
Vinyl Chloride		75-01-4	0.002**	0.27	0.097	**0.0106**	**0.011**	<0.002	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	**0.0061**	**0.0032**	<0.002
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laborat																						
1,2-Dichlorobenzene		95-50-1	NA(1)			<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone		67-64-1	4			<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorobenzene		108-90-7	NA(1)			<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																						
1,2-Dibromoethane (EDB)		106-93-4	PRC			<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1, 2-Dichloroethane		107-06-2	PRC			<0.001	<0.005	<0.005	0.00152	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005
2-Butanone (MEK)		78-93-3	PRC			<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC			<0.002	<0.01	<0.01	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	PRC			0.00097	<0.005	<0.005	0.00134	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005
Cyclohexane		110-82-7	PRC			<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene		100-41-4	PRC			0.00073	<0.005	<0.005	0.00321	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005
Isopropylbenzene		98-82-8	PRC			<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC			0.0235	0.017	<0.005	0.575	0.14	0.24	0.047	0.046	<0.005	0.027	<0.005	**0.0033**	0.012	<0.005	**0.0021**	<0.005	<0.005
Styrene		100-42-5	PRC			<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene		108-88-3	PRC			0.0014	<0.005	<0.005	0.00559	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005
Xylenes, Total		1330-20-7	PRC			0.00412	<0.01	<0.005	0.021	<0.01	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005

NOTES:

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker
NA(1)	Not Applicable - fumigant-insecticide properly applied
NA(2)	Not Applicable - Petroleum related constituent which has no In-Stream Wat
NR	Not regulated
*	Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Typ
**	RRS is taken from EPD CAP approval letter dated December 28, 2007, table (
FPP	Free-phase petroleum present in the monitoring well

Table 1
Groundwater Data through April 2014 - Detected Constituents
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		FMW-16	FMW-16	FMW-16	FMW-17	FMW-17	SB-24[3]	SB-24	SB-25[3]	SB-26[3]	SB-26	Stantec UST Data MW-1	Stantec UST Data MW-2R	MW-2R	MW-2R	Stantec UST Data MW-3	Stantec UST Data MW-4R	Stantec UST Data MW-8	MW-8
	Date Sampled			Construction Worker	Utility Worker	6/15/10	7/10/12	4/30/14	3/29/13	4/30/14	3/16/10	7/13/12	3/16/10	3/16/10	7/13/12	6/7/08	6/7/08	9/9/08	3/8/10	6/7/08	6/7/08	6/7/08	3/9/10
Volatile Organic Compounds																							
Fashion Care HSRA Site Constituents of Interest																							
1,1-Dichloroethene		75-35-4	0.007	0.577	4.12	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.5	<0.1	<0.25	<0.5	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane		79-00-5	0.005					<0.005	<0.005	<0.005													
cis-1, 2-Dichloroethene		156-59-2	0.53	12.8	91.3	<0.005	0.0094	<0.005	<0.005	<0.005	**2.2**	**2.7**	**0.78**	**9.7**	**13**	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Tetrachloroethene (PCE)		127-18-4	0.005**	0.286	0.082	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.5	<0.1	**9.0**	**12**	FPP	<0.005	<0.001	<0.005	<0.005	<0.013	<0.005	<0.005
trans-1, 2-Dichloroethene		156-60-5	0.1	0.174	1.24	<0.005	<0.005	<0.005	<0.005	<0.005	0.046J	<0.5	<0.1	0.057J	<0.5	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene (TCE)		79-01-6	0.005**	1.02	0.290	<0.005	<0.005	<0.005	<0.005	<0.005	**0.02J**	<0.5	<0.1	**6.7**	**11**	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl Chloride		75-01-4	0.002**	0.27	0.097	<0.002	<0.002	<0.002	<0.002	<0.002	**0.035J**	<0.2	<0.04	**0.81**	**0.46**	FPP	<0.002	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laborat																							
1,2-Dichlorobenzene		95-50-1	NA(1)			<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.5	<0.1	<0.25	<0.5	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone		67-64-1	4			<0.05	<0.05	<0.05	<0.05	<0.05	2.6	<5	<1.0	<2.5	<5	FPP	<0.05	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorobenzene		108-90-7	NA(1)			<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.5	<0.1	<0.25	<0.5	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																							
1,2-Dibromoethane (EDB)		106-93-4	PRC			<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.5	<0.1	<0.25	<0.5	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
1, 2-Dichloroethane		107-06-2	PRC			<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.5	<0.1	<0.25	<0.5	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone (MEK)		78-93-3	PRC			<0.05	<0.05	<0.05	<0.05	<0.05	0.81J	<5.0	<1.0	<2.5	<5.0	FPP	<0.05	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC			<0.01	<0.01	<0.01	<0.01	<0.01	<0.2	<1.0	<0.2	<0.5	<1.0	FPP	<0.01	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	PRC			<0.005	<0.005	<0.005	<0.005	<0.005	3.5	5.3	1.5	0.33	<0.5	FPP	<0.005	<0.001	<0.005	0.068	<0.005	1.8	1.0
Cyclohexane		110-82-7	PRC			<0.005	<0.005	<0.005	<0.005	<0.005	0.12	<0.5	0.12	0.17J	<0.5	FPP	<0.005	<0.001	<0.005	0.13	<0.005	0.085	0.075
Ethylbenzene		100-41-4	PRC			<0.005	<0.005	<0.005	<0.005	<0.005	0.55	1.2	1.4	0.065J	<0.5	FPP	<0.005	<0.001	<0.005	0.86	<0.005	0.90	1.1
Isopropylbenzene		98-82-8	PRC			<0.005	<0.005	<0.005	<0.005	<0.005	0.027J	<0.5	0.044J	<0.25	<0.5	FPP	<0.005	<0.001	<0.01	0.095	<0.005	0.071	0.081
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC			<0.005	<0.005	<0.005	<0.005	<0.005	8.1	10	0.62	<0.25	<0.5	FPP	<0.005	<0.002	<0.005	0.038	<0.005	0.022	0.013
Styrene		100-42-5	PRC			<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.5	<0.1	<0.25	<0.5	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene		108-88-3	PRC			<0.005	<0.005	<0.005	<0.005	<0.005	4.6	9.8	4.7	0.086J	<0.5	FPP	<0.005	<0.001	<0.005	0.220	<0.005	3.5	2.3
Xylenes, Total		1330-20-7	PRC			<0.005	<0.005	<0.005	<0.005	<0.005	3.15	7.7	6.3	0.081J	<0.5	FPP	<0.005	<0.002	<0.01	4.10	<0.005	6.2	5.6

NOTES:

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker

NA(1) Not Applicable - fumigant-insecticide properly applied
NA(2) Not Applicable - Petroleum related constituent which has no In-Stream Wat
NR Not regulated
* Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Typ
** RRS is taken from EPD CAP approval letter dated December 28, 2007, table
FPP Free-phase petroleum present in the monitoring well

Table 1
Groundwater Data through April 2014 - Detected Constituents
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		Stantec UST Data MW-9R	MW-9R	MW-9R	Stantec UST Data RW-13 (MW-10R)	Stantec UST Data MW-11	MW-11	MW-11[3]	Stantec UST Data MW-12	Stantec UST Data MW-13	MW-13	MW-13	Stantec UST Data MW-14	MW-14	Stantec UST Data MW-15	Stantec UST Data MW-16	Stantec UST Data RW-7 (MW-17)	Stantec UST Data MW-18	Stantec UST Data MW-19	Stantec UST Data MW-20	Stantec UST Data MW-21
	Date Sampled			Construction Worker	Utility Worker	6/7/08	9/9/08	3/9/10	6/7/08	6/7/08	9/9/08	3/9/10	6/7/08	6/7/08	9/8/08	3/11/10	6/7/08	9/8/08	6/7/08	6/7/08	6/7/08	6/7/08	6/7/08	6/7/08	6/7/08
Volatile Organic Compounds																									
Fashion Care HSRA Site Constituents of Interest																									
1,1-Dichloroethene		75-35-4	0.007	0.577	4.12	<0.005	<0.01	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	0.0027	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane		79-00-5	0.005																						
cis-1, 2-Dichloroethene		156-59-2	0.53	12.8	91.3	0.110	0.220	**1.7**	<0.005	<0.005	<0.001	0.021	<0.005	<0.005	<0.001	<0.005	**2.4**	**2.6**	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005
Tetrachloroethene (PCE)		127-18-4	0.005**	0.286	0.082	**0.12**	**0.1**	**1.7**	<0.005	<0.005	0.0028	**0.026**	<0.005	<0.005	<0.001	<0.005	**0.22**	**0.26**	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.006
trans-1, 2-Dichloroethene		156-60-5	0.1	0.174	1.24	<0.005	<0.01	0.021	<0.005	<0.005	<0.001	0.0011J	<0.005	<0.005	<0.001	<0.005	<0.005	0.018	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005
Trichloroethene (TCE)		79-01-6	0.005**	1.02	0.290	**0.021**	**0.022**	**0.62**	<0.005	<0.005	<0.001	**0.016**	<0.005	<0.005	<0.001	<0.005	**0.23**	**0.26**	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005
Vinyl Chloride		75-01-4	0.002**	0.27	0.097	<0.002	**0.1**	**0.087**	<0.002	<0.002	<0.001	0.001J	<0.002	<0.002	<0.001	<0.002	**0.34**	**0.83**	<0.002	<0.002	FPP	<0.002	<0.002	<0.002	<0.002
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laborat																									
1,2-Dichlorobenzene		95-50-1	NA(1)			<0.005	<0.01	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	0.0026	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005
Acetone		67-64-1	4			<0.05	<0.02	<0.05	<0.05	<0.05	<0.002	<0.05	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	FPP	<0.05	<0.05	<0.05	<0.05
Chlorobenzene		108-90-7	NA(1)			<0.005	<0.01	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																									
1,2-Dibromoethane (EDB)		106-93-4	PRC			<0.005	<0.01	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005
1, 2-Dichloroethane		107-06-2	PRC			<0.005	<0.01	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	0.024	0.012	<0.005	<0.005	<0.001	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005
2-Butanone (MEK)		78-93-3	PRC			<0.05	<0.02	<0.05	<0.05	<0.05	<0.002	<0.05	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	FPP	<0.05	<0.05	<0.05	0.051
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC			<0.01	<0.02	<0.01	<0.01	<0.01	<0.002	<0.01	<0.01	<0.01	<0.002	<0.01	<0.01	<0.002	<0.01	<0.01	FPP	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	PRC			1.8	1.6	0.83	14.0	<0.005	0.0052	0.047	<0.005	<0.005	<0.001	<0.005	0.14	0.13	1.3	<0.005	FPP	<0.005	<0.005	<0.005	10.0
Cyclohexane		110-82-7	PRC			0.11	0.14	0.12	0.17	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	0.018	0.026	0.034	<0.005	FPP	<0.005	<0.005	<0.005	0.170
Ethylbenzene		100-41-4	PRC			1.8	2.0	1.5	3.9	<0.005	0.0014	0.017	<0.005	<0.005	<0.001	<0.005	<0.005	0.0014	0.013	<0.005	FPP	<0.005	0.0083	<0.005	4.4
Isopropylbenzene		98-82-8	PRC			0.16	0.19	0.14	0.16	<0.005	<0.001	0.001J	<0.005	<0.005	<0.001	<0.01	0.0078	0.01	0.027	<0.005	FPP	<0.005	<0.005	<0.005	0.160
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC			0.089	<0.02	0.15	6.2	0.012	0.013	0.0041J	<0.005	0.038	0.19	0.012	0.370	0.13	0.320	<0.005	FPP	0.018	<0.005	<0.005	9.2
Styrene		100-42-5	PRC			<0.005	<0.01	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005
Toluene		108-88-3	PRC			0.180	0.26	0.15	41.0	<0.005	<0.001	0.0058	<0.005	<0.005	<0.001	<0.005	0.0086	0.015	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	6.6
Xylenes, Total		1330-20-7	PRC			3.5	4.05	3.06	22.1	<0.005	<0.002	0.0084J	<0.005	<0.005	<0.002	<0.01	<0.005	0.0059	0.0078	<0.005	FPP	<0.005	<0.005	<0.005	23.8

NOTES:

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker

NA(1) Not Applicable - fumigant-insecticide properly applied
NA(2) Not Applicable - Petroleum related constituent which has no In-Stream Wat
NR Not regulated
* Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Typ
** RRS is taken from EPD CAP approval letter dated December 28, 2007, table
FPP Free-phase petroleum present in the monitoring well

Table 1
Groundwater Data through April 2014 - Detected Constituents
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		Stantec UST Data MW-22	Stantec UST Data MW-23D	MW-23D	MW-23D[3]
	Date Sampled			Construction Worker	Utility Worker	6/7/08	6/7/08	9/9/08	3/9/10
Volatile Organic Compounds									
Fashion Care HSRA Site Constituents of Interest									
1,1-Dichloroethene		75-35-4	0.007	0.577	4.12	<0.005	<0.005	<0.001	<0.005
1,1,2-Trichloroethane		79-00-5	0.005						
cis-1, 2-Dichloroethene		156-59-2	0.53	12.8	91.3	<0.005	0.068	0.0034	0.095
Tetrachloroethene (PCE)		127-18-4	0.005**	0.286	0.082	<0.005	**26.0**	**1.70**	**18.0**
trans-1, 2-Dichloroethene		156-60-5	0.1	0.174	1.24	<0.005	<0.005	<0.001	0.0015J
Trichloroethene (TCE)		79-01-6	0.005**	1.02	0.290	<0.005	**0.7**	**0.028**	**0.061**
Vinyl Chloride		75-01-4	0.002**	0.27	0.097	<0.002	<0.002	<0.001	<0.002
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laborat									
1,2-Dichlorobenzene		95-50-1	NA(1)			<0.005	0.0058	<0.001	0.0021J
Acetone		67-64-1	4			<0.05	<0.05	0.033	<0.05
Chlorobenzene		108-90-7	NA(1)			<0.005	<0.005	<0.001	<0.005
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE									
1,2-Dibromoethane (EDB)		106-93-4	PRC			<0.005	<0.005	<0.001	<0.005
1, 2-Dichloroethane		107-06-2	PRC			<0.005	<0.005	<0.001	0.00093J
2-Butanone (MEK)		78-93-3	PRC			<0.05	<0.05	<0.002	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC			<0.01	<0.01	<0.002	<0.01
Benzene		71-43-2	PRC			<0.005	<0.005	<0.001	0.00028J
Cyclohexane		110-82-7	PRC			0.053	0.005	<0.001	<0.005
Ethylbenzene		100-41-4	PRC			0.057	<0.005	<0.001	0.0009J
Isopropylbenzene		98-82-8	PRC			0.027	<0.005	<0.001	0.00036J
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC			<0.005	0.049	0.0018	0.015
Styrene		100-42-5	PRC			<0.005	<0.005	<0.001	<0.005
Toluene		108-88-3	PRC			0.021	<0.005	<0.001	<0.005
Xylenes, Total		1330-20-7	PRC			0.220	0.011	0.0011	0.0041J

NOTES:

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker
NA(1)	Not Applicable - fumigant-insecticide properly applied
NA(2)	Not Applicable - Petroleum related constituent which has no In-Stream Wat
NR	Not regulated
*	Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Typ
**	RRS is taken from EPD CAP approval letter dated December 28, 2007, table (
FPP	Free-phase petroleum present in the monitoring well

Table 2
Groundwater Elevation Measurements - April 1, 2014

WOODARD &CURRAN	2055 Sugarloaf Circle | Suite 175	Job Number	226203.00	Date	4/1/2013	
	Duluth, Georgia 30097	Client	Rowen Trust	Sampler	JDK	
	T 770.622.6766	Project	Fashion Care	Time In/Out	700	839
	F 770.396.0095	Weather	Clear cool			

WATER LEVEL DATA

Well I.D.	Time	Top of Casing Elevation (feet)	Depth to Free Product (feet)	Depth to Water (feet)	Depth to Well Bottom (feet)	Product Thickness (feet)	Water Colum Height (feet)	Water Table Elevation (feet)	Notes/Other Remarks
FMW-1	7:37	98.92	none	13.05	25.00	0.00	11.95	85.87	
FMW-2	7:35	97.07	none	11.08	22.20	0.00	11.12	85.99	
FMW-3	7:27	96.96	none	11.36	19.90	0.00	8.54	85.60	
FMW-4	7:21	97.11	none	11.75	20.30	0.00	8.55	85.36	
FMW-5	8:16	95.4	none	11.30	18.72	0.00	7.42	84.10	
FMW-6	8:18	93.12	none	9.85	18.66	0.00	8.81	83.27	
FMW-7	7:23	96.81	none	11.75	18.48	0.00	6.73	85.06	
FMW-8	7:31	97.4	none	11.55	20.18	0.00	8.63	85.85	
FMW-9	8:20	94.07	none	11.02	19.26	0.00	8.24	83.05	
FMW-10	8:25	92.85	none	9.45	19.15	0.00	9.70	83.40	
FMW-11	8:14	94.4	none	11.10	19.13	0.00	8.03	83.30	
FMW-12	8:11	95.9	none	12.58	19.35	0.00	6.77	83.32	
FMW-13	8:23	92.05	none	8.45	19.65	0.00	11.20	83.60	
FMW-14	8:28	92.03	none	9.46	18.88	0.00	9.42	82.57	
FMW-15	8:33	92.1	none	8.92	14.34	0.00	5.42	83.18	
FMW-16	8:36	91.32	none	9.38	15.36	0.00	5.98	81.94	
FMW-17	8:39	91.90	none	9.00	17.32	0.00	8.32	82.90	
SB-24	7:43	98.56	none	8.32	16.25	0.00	7.93	90.24	
SB-25	7:45	98.5	none	12.44	16.58	0.00	4.14	86.06	
SB-26	7:48	98.36	none	10.43	16.30	0.00	5.87	87.93	
SW9		NA	NA	NA	NA	NA	NA	82.37	
SW11		NA	NA	NA	NA	NA	NA	82.64	
SW14		NA	NA	NA	NA	NA	NA	81.87	

Table 3
Groundwater Data April 2014 - Detected Constituents
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		FMW-1	DUP 1 (FMW-1)	FMW-4	FMW-5	FMW-6	FMW-9	FMW-13	FMW-14	FMW-15	FMW-16	FMW-17
	Date Sampled			Construction Worker	Utility Worker	4/28/14	4/28/14	4/29/14	4/29/14	4/29/14	4/29/14	4/29/14	4/29/14	4/30/14	4/30/14	4/30/14
Volatile Organic Compounds																
Fashion Care HSRA Site Constituents of Interest																
1,1-Dichloroethene		75-35-4	0.007	0.577	4.12	<0.005	<0.005	**0.027**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane		79-00-5	0.005			<0.005	<0.005	**0.014**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1, 2-Dichloroethene		156-59-2	0.53	12.8	91.3	0.049	0.046	**40**	<0.005	**0.92**	**0.82**	<0.005	0.0071	<0.005	<0.005	<0.005
Tetrachloroethene (PCE)		127-18-4	0.005**	0.286	0.082	<0.005	<0.005	**4.9**	<0.005	**3.1**	**2.3**	**0.01**	<0.005	<0.005	<0.005	<0.005
trans-1, 2-Dichloroethene		156-60-5	0.1	0.174	1.24	<0.005	<0.005	**0.32**	<0.005	0.016	0.014	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene (TCE)		79-01-6	0.005**	1.02	0.290	<0.005	<0.005	**1.8**	<0.005	**0.26**	**0.25**	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl Chloride		75-01-4	0.002**	0.27	0.097	**0.022**	**0.021**	**1.6**	<0.002	<0.002	**0.02**	<0.002	<0.002	<0.002	<0.002	<0.002
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laboratory Artifacts																
1,2-Dichlorobenzene		95-50-1	NA(1)			<0.005	<0.005	0.0052	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone		67-64-1	4			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorobenzene		108-90-7	NA(1)			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																
1,2-Dibromoethane (EDB)		106-93-4	PRC			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1, 2-Dichloroethane		107-06-2	PRC			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone (MEK)		78-93-3	PRC			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC			<0.01	<0.01	0.012	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	PRC			0.24	0.28	3.1	<0.005	<0.005	0.035	<0.005	<0.005	<0.005	<0.005	<0.005
Cyclohexane		110-82-7	PRC			0.061	0.07	0.064	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene		100-41-4	PRC			0.25	0.27	0.53	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene		98-82-8	PRC			0.014	0.016	0.041	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC			1.4	1.6	0.7	<0.005	0.052	0.26	<0.005	<0.005	<0.005	<0.005	<0.005
Styrene		100-42-5	PRC			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene		108-88-3	PRC			0.77	0.87	0.6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylenes, Total		1330-20-7	PRC			0.90	0.95	0.45	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005

NOTES:

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker
PRC	Pertroleum related constituent
NA(1)	Not Applicable - fumigant-insecticide properly applied
NA(2)	Not Applicable - Petroleum related constituent which has no In-Stream Water Quality Standard
NR	Not regulated
*	Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Type 1 RRS has a higher value.
**	RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS in Condition 8.
FPP	Free-phase petroleum present in the monitoring well

Table 4
Surface Water through April 2014
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3
	Date Sampled		9/8/08	9/8/08	9/8/08	1/5/10	1/5/10	1/5/10	10/6/11	10/6/11	10/6/11
Volatile Organic Compounds (mg/L)											
Fashion Care HSRA Site Constituents of Interest											
1,1-Dichloroethene		75-35-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
cis-1, 2-Dichloroethene		156-59-2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Tetrachloroethene (PCE)		127-18-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
trans-1, 2-Dichloroethene		156-60-5	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Trichloroethene (TCE)		79-01-6	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Vinyl Chloride		75-01-4	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring, Laboratory Artifacts or Attributed to Other Sources											
1,2-Dichlorobenzene		95-50-1	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Acetone		67-64-1	<0.002	<0.002	<0.002	<0.05	<0.05	<0.05	0.022	<0.02	<0.02
Chlorobenzene		108-90-7	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Chloromethane		74-87-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE											
1,2-Dibromoethane (EDB)		106-93-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
1, 2-Dichloroethane		107-06-2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
2-Butanone (MEK)		78-93-3	<0.002	<0.002	<0.002	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01
4-Methyl-2-pentanone (MIBK)		108-10-1	<0.002	<0.002	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Cyclohexane		110-82-7	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.002	<0.002	<0.002
Ethylbenzene		100-41-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Isopropylbenzene		98-82-8	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Methyl tert-butyl ether (MTBE)		1634-04-4	<0.002	<0.002	<0.002	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Styrene		100-42-5	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Toluene		108-88-3	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Xylenes, Total		1330-20-7	<0.002	<0.002	<0.002	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001

Table 4
Surface Water through April 2014
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3
	Date Sampled		10/7/11	10/7/11	10/7/11	10/8/11	10/8/11	10/8/11	10/9/11	10/9/11	10/9/11
Volatile Organic Compounds (mg/L)											
Fashion Care HSRA Site Constituents of Interest											
1,1-Dichloroethene		75-35-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1, 2-Dichloroethene		156-59-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene (PCE)		127-18-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1, 2-Dichloroethene		156-60-5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene (TCE)		79-01-6	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride		75-01-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Properly Applied Chemicals, Non-HSRA Regulated Chemica											
1,2-Dichlorobenzene		95-50-1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone		67-64-1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chlorobenzene		108-90-7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane		74-87-3	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	0.002	0.001	<0.001
Petroleum Constituents/VOCs Related to the EZ-Serve UST											
1,2-Dibromoethane (EDB)		106-93-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1, 2-Dichloroethane		107-06-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Butanone (MEK)		78-93-3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Methyl-2-pentanone (MIBK)		108-10-1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cyclohexane		110-82-7	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene		100-41-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene		98-82-8	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-butyl ether (MTBE)		1634-04-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene		100-42-5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene		108-88-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes, Total		1330-20-7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Table 4
Surface Water through April 2014
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3
	Date Sampled		10/21/11	10/21/11	10/21/11	10/22/11	10/22/11	10/22/11	10/23/11	10/23/11	10/23/11
Volatile Organic Compounds (mg/L)											
Fashion Care HSRA Site Constituents of Interest											
1,1-Dichloroethene		75-35-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1, 2-Dichloroethene		156-59-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene (PCE)		127-18-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1, 2-Dichloroethene		156-60-5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene (TCE)		79-01-6	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride		75-01-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Properly Applied Chemicals, Non-HSRA Regulated Chemica											
1,2-Dichlorobenzene		95-50-1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone		67-64-1	0.021	0.022	0.023	0.034	0.037	0.031	0.046	0.040	0.051
Chlorobenzene		108-90-7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane		74-87-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Petroleum Constituents/VOCs Related to the EZ-Serve UST S											
1,2-Dibromoethane (EDB)		106-93-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1, 2-Dichloroethane		107-06-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Butanone (MEK)		78-93-3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Methyl-2-pentanone (MIBK)		108-10-1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cyclohexane		110-82-7	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene		100-41-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene		98-82-8	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-butyl ether (MTBE)		1634-04-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene		100-42-5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene		108-88-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes, Total		1330-20-7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Table 4
Surface Water through April 2014
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3
	Date Sampled		10/24/11	10/24/11	10/24/11	7/11/12	7/11/12	7/11/12	4/28/14	4/28/14	4/28/14
Volatile Organic Compounds (mg/L)											
Fashion Care HSRA Site Constituents of Interest											
1,1-Dichloroethene		75-35-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1, 2-Dichloroethene		156-59-2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Tetrachloroethene (PCE)		127-18-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1, 2-Dichloroethene		156-60-5	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene (TCE)		79-01-6	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl Chloride		75-01-4	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Properly Applied Chemicals, Non-HSRA Regulated Chemica											
1,2-Dichlorobenzene		95-50-1	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone		67-64-1	0.190	0.180	0.200	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorobenzene		108-90-7	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane		74-87-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Petroleum Constituents/VOCs Related to the EZ-Serve UST S											
1,2-Dibromoethane (EDB)		106-93-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1, 2-Dichloroethane		107-06-2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone (MEK)		78-93-3	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cyclohexane		110-82-7	<0.002	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene		100-41-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene		98-82-8	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Styrene		100-42-5	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene		108-88-3	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylenes, Total		1330-20-7	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Table 5
Uniform Environmental Covenant Notifications
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

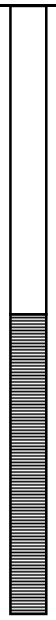
Parties to be Sent UEC	Mailing Address	Property Address	Parcel #	Comments
FASHION CARE UEC				
Southern Automatic Company	3747 Peachtree Rd. NE, Apt. 1623, Atlanta, Ga. 30319	4306 North Peachtree Road, Chamblee, GA	18-343-13-003, 18-343-13-005	2 properties to west
Georgia-Alabama Commercial Investments, LLC	PO Box 1565 Lawrenceville GA 30046, OR C/o R. Bradley Carr, Registered Agent, Anderson Tate Carr PC, One Sugarloaf Centre, 1960 Satellite Blvd., Suite 4000, Duluth, GA 30097	4308 North Peachtree Road, Chamblee, GA	18-343-13-001	property to east
ASL Limited Partnership	1515 S. Federal Hwy. 300, Boca Raton, FL 33432-7451	North Shallowford Road, Chamblee, DeKalb Co., GA	18-333-02-023	property to south
Moon Ho Kwark (tenant)	2211 Savoy Dr., Chamblee, Ga. 30341			Tenant
City of Chamblee	C/o Emmie Niethammer, City Clerk, 5468 Peachtree Road, Chamblee, GA 30341	N/A	N/A	municipality
DeKalb County Government	C/o Lee May, Interim Chief Executive Officer, DeKalb County Government, Manuel J. Maloof Center, 1300 Commerce Drive, 6th Floor, Decatur, GA 30030	N/A	N/A	county
SOUTHERN AUTOMATIC CO. UEC				
The Trust of John F. Rowan, Sr.	C/o Mrs. Catherine Norris,224 Vista Verde, Carmel Valley, Ca 93924	2211 Savoy Drive, Chamblee, GA	18-343-13-002	Property to east
Southern Automatic Company	3747 Peachtree Rd. NE, Apt. 1623, Atlanta, Ga. 30319	2201 and 2197 Savoy Drive, Chamblee GA	18-343-13-003, 18-343-13-004	2 properties to north
ASL Limited Partnership	1515 S. Federal Hwy. 300, Boca Raton, FL 33432-7451	North Shallowford Road, Chamblee, DeKalb Co., GA	18-333-02-023	property to south
Fair Lanes North Atl Prop, Inc.	7313 Bell Creek Road, Mechanicsville, VA 23111-3551	2175 Savoy Drive, Chamblee, GA	18-344-05-003	property to west
The Mad Italian (tenant)	2197 Savoy Dr., Atlanta, Ga. 30341	N/A	N/A	Tenant
Wild Ginger Thai Cuisine (tenant)	2201 Savoy Dr., Atlanta, Ga. 30341	N/A	N/A	Tenant
Randal Rowan, D.D.S. (tenant)	4306-B N. Peachtree Rd.,Chamblee, Ga. 30341			Tenant
Gardner Chiropractic & Rehabilitation Center (tenant)	4306-A N Peachtree Rd., Chamblee, Ga. 30341			Tenant
Hair Cut Zoo (tenant)	4306-C N Peachtree Rd., Chamblee, Ga. 30341	N/A	N/A	Tenant
City of Chamblee	C/o Emmie Niethammer, City Clerk, 5468 Peachtree Road, Chamblee, GA 30341	N/A	N/A	municipality
DeKalb County	C/o Lee May, Interim Chief Executive Officer, DeKalb County Government, Manuel J. Maloof Center, 1300 Commerce Drive, 6th Floor, Decatur, GA 30030	N/A	N/A	county

Appendix A
Boring Log and Groundwater Sampling Logs - April 2014

Soil Boring Log

Boring ID: **MW-18D (well aborted)**

Project:	Fashion Care Cleaners	Elevation:	
Project No:	226203	Date started:	4/22/2014
Location:	2211 Savoy Drive, Chamblee, GA	Date Completed:	4/22/2014
Driller:	GeoLab	Field Oversight:	LJD
DTW:	7 ft. bgs	Final Depth:	33.5 ft. bgs

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	PID (ppm)	Well Completion	Remarks
0	Reddish-brown Silt, moist	20%	No samples collected	No readings collected	 Type III well installation aborted	On 4/22/14 suspected bedrock on refusal at 33.5ft. bgs using solid-stem augers. Borehole temporarily abandoned using bentonite on 4/22/14. 4/24/14 returned with hollow-stem augers. Re-drilled borehole to refusal at 33.5 ft. bgs, used split-spoon to collect small sample of bedrock to confirm type of refusal, tremie-grouted boring with Portland-bentonite slurry to ensure good borehole seal.
5		100%				
	Reddish-brown silty, fine to coarse SAND Wet					
10	13 ft. color change to medium gray	100%				
15	Reddish-brown SILT, dense, moist	80%				
20	19.5 ft. Silt becoming dry, very dense	Solid stem augers required beginning at 20 ft. bgs due to DPT refusal. Down-pressure and cuttings used to identify lithology/lithologic changes.				
25						
30	Bedrock at 33.5 ft. immediately below SILT Mica-Garnet Greenschist					
35	Boring Terminated at 33.5 ft. bgs - Refusal					

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-1		Date:	4/28/2014
Well Diameter:	2"	(inches)	Measuring Pt:	Yes
Total Depth (TD):	25.00	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	13.10	(ft)	Weather:	Cloudy Hot
Water Column Height (CH):	11.90	(ft) = TD - GW	Additional Notes:	
Well Volume:	1.94	(gals)		
Total Liters Purged:	4.38	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
13:13	125	13.63	20.53	.375	2.30	6.14	60	N/A	AC
13:18	125	13.70	20.17	.362	3.10	6.18	71	N/A	AC
13:23	125	13.70	20.65	.368	2.24	6.20	73	N/A	C
13:28	125	13.68	20.55	.371	1.72	6.21	78	N/A	C
13:33	125	13.68	20.63	.376	1.51	6.19	72	N/A	C
13:38	125	13.69	20.73	.377	1.39	6.19	70	N/A	C
13:43	125	13.69	20.99	.380	1.38	6.22	70	N/A	C
13:48	125	13.69	20.76	.382	1.37	6.23	69	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low Flow sampling using a Geo pump, YSI 556 water meter, and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 13:45

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40mL VOA's	HCL	VOC's	N/A	N/A	N/A	Dup-1

Note sample time, parameters, duplicates, field blanks, etc.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-4		Date:	4/29/2014
Well Diameter:	2"	(inches)	Measuring Pt:	Yes
Total Depth (TD):	20.30	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	11.84	(ft)	Weather:	Cloudy Rain
Water Column Height (CH):	8.46	(ft) = TD - GW	Additional Notes:	
Well Volume:	1.39	(gals)		
Total Liters Purged:	8.00	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
8:22	125	11.90	20.71	1.65	7.15	5.69	13.6	N/A	C
8:27	100	12.04	20.61	1.64	7.05	5.71	15.6	N/A	C
8:32	100	12.06	20.57	1.64	6.91	5.71	174	N/A	C
8:37	100	12.10	20.63	1.64	6.75	5.71	8.5	N/A	C
8:42	100	12.11	20.65	1.64	6.67	5.71	2.7	N/A	C
8:47	100	12.10	20.70	1.64	6.70	5.71	21.1	N/A	C
8:52	100	12.10	20.74	1.62	6.86	5.70	29.7	N/A	C
8:57	100	12.11	20.76	1.55	6.38	5.70	28.3	N/A	C
9:02	100	12.11	20.80	1.52	6.23	5.69	30.7	N/A	C
9:07	100	12.11	20.77	1.47	6.17	5.68	32.9	N/A	C
9:12	100	12.10	20.79	1.47	6.02	5.69	35.7	N/A	C
9:17	100	12.10	20.82	1.48	5.88	5.69	37.1	N/A	C
9:22	100	12.11	20.83	1.50	5.78	5.69	37	N/A	C
9:27	100	12.11	20.83	1.50	5.68	5.69	36.3	N/A	C
9:32	100	12.10	20.90	1.51	5.51	5.69	39.9	N/A	C
9:37	100	12.10	20.92	1.51	5.50	5.69	39.1	N/A	C
9:42	100	12.10	20.87	1.51	5.49	5.69	40.1	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low Flow sampling using a Geo pump, YSI 556 water meter, and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 9:44

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40mL VOA's	HCL	VOC's	N/A	N/A	N/A	N/A

Note sample time, parameters, duplicates, field blanks, etc.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-5		Date:	4/29/2014
Well Diameter:	2"	(inches)	Measuring Pt:	Yes
Total Depth (TD):	18.72	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	12.22	(ft)	Weather:	Cloudy Warm
Water Column Height (CH):	6.50	(ft) = TD - GW	Additional Notes:	
Well Volume:	1.06	(gals)		
Total Liters Purged:	3.13	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
10:10	125	12.43	15.58	.193	3.17	5.54	36.5	N/A	C
10:15	125	12.48	15.64	.175	2.05	5.56	25.9	N/A	C
10:20	125	12.49	15.57	.176	1.53	5.58	18.2	N/A	C
10:25	125	12.50	15.66	.178	1.75	5.58	12.1	N/A	C
10:30	125	12.51	15.48	.180	1.75	5.58	7.4	N/A	C
10:35	125	12.51	15.52	.180	1.80	5.60	4.7	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low Flow sampling using a Geo pump, YSI 556 water meter, and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 10:38

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40mL VOA's	HCL	VOC's	N/A	N/A	N/A	N/A

Note sample time, parameters, duplicates, field blanks, etc.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-6		Date:	4/29/2014
Well Diameter:	2"	(inches)	Measuring Pt:	Yes
Total Depth (TD):	18.66	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	10.34	(ft)	Weather:	Cloudy Warm
Water Column Height (CH):	8.32	(ft) = TD - GW	Additional Notes:	
Well Volume:	1.36	(gals)		
Total Liters Purged:	2.50	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
10:55	125	10.15	15.52	.099	9.79	5.80	39.6	N/A	C
11:00	125	10.16	15.41	.099	9.62	5.71	35	N/A	C
11:05	125	10.17	15.15	.097	9.70	5.78	13.9	N/A	C
11:10	125	10.17	15.10	.097	9.74	5.80	5.8	N/A	C
11:15	125	10.17	15.04	.095	9.75	5.81	1.8	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low Flow sampling using a Geo pump, YSI 556 water meter, and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 11:18

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40mL VOA's	HCL	VOC's	N/A	N/A	N/A	N/A

Note sample time, parameters, duplicates, field blanks, etc.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-9		Date:	4/29/2014
Well Diameter:	2"	(inches)	Measuring Pt:	Yes
Total Depth (TD):	19.26	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	11.32	(ft)	Weather:	Cloudy Warm
Water Column Height (CH):	7.94	(ft) = TD - GW	Additional Notes:	
Well Volume:	1.29	(gals)		
Total Liters Purged:	3.75	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
11:42	125	11.31	15.98	.131	3.18	5.78	0	N/A	C
11:47	125	11.32	15.98	.130	3.16	5.76	0	N/A	C
11:52	125	11.32	15.88	.131	2.31	5.87	0	N/A	C
11:57	125	11.32	15.88	.131	1.11	5.94	0	N/A	C
12:02	125	11.31	15.89	.130	.75	5.93	0	N/A	C
12:07	125	11.32	15.91	.130	.71	5.94	0	N/A	C
12:12	125	11.31	15.90	.130	.70	5.92	0	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low Flow sampling using a Geo pump, YSI 556 water meter, and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 12:15

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40mL VOA's	HCL	VOC's	N/A	N/A	N/A	N/A

Note sample time, parameters, duplicates, field blanks, etc.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-13		Date:	4/29/2014
Well Diameter:	2"	(inches)	Measuring Pt:	Yes
Total Depth (TD):	19.65	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	9.18	(ft)	Weather:	Cloudy Warm
Water Column Height (CH):	10.47	(ft) = TD - GW	Additional Notes:	
Well Volume:	1.71	(gals)		
Total Liters Purged:	4.20	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
12:46	120	9.43	15.27	.073	10.90	4.98	26.4	N/A	C
12:51	120	9.48	14.86	.070	4.73	4.65	5.2	N/A	C
12:56	120	9.49	14.94	.070	3.52	4.76	0	N/A	C
13:01	120	9.49	14.99	.070	4.25	4.81	0	N/A	C
13:06	120	9.48	14.88	.070	3.73	4.82	0	N/A	C
13:11	120	9.48	14.81	.070	3.17	4.82	0	N/A	C
13:16	120	9.49	14.80	.069	3.19	4.84	0	N/A	C
13:21	120	9.49	14.81	.069	3.20	4.83	0	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low Flow sampling using a Geo pump, YSI 556 water meter, and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 13:24

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40mL VOA's	HCL	VOC's	N/A	N/A	N/A	N/A

Note sample time, parameters, duplicates, field blanks, etc.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-14		Date:	4/29/2014
Well Diameter:	2"	(inches)	Measuring Pt:	Yes
Total Depth (TD):	18.88	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	10.09	(ft)	Weather:	Cloudy Warm
Water Column Height (CH):	8.79	(ft) = TD - GW	Additional Notes:	
Well Volume:	1.43	(gals)		
Total Liters Purged:	3.75	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
14:01	125	10.04	16.43	.101	4.12	5.40	0	N/A	CL
14:06	125	10.06	14.87	.101	3.76	5.28	0	N/A	CL
14:11	125	10.08	14.82	.101	3.71	5.33	0	N/A	CL
14:16	125	10.10	14.82	.102	3.30	5.37	0	N/A	C
14:21	125	10.10	14.72	.101	2.72	5.39	0	N/A	C
14:26	125	10.10	14.72	.100	2.75	5.40	0	N/A	C
14:31	125	10.09	14.73	.099	2.72	5.39	0	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low Flow sampling using a Geo pump, YSI 556 water meter, and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 14:35

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40mL VOA's	HCL	VOC's	N/A	N/A	N/A	N/A

Note sample time, parameters, duplicates, field blanks, etc.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-15		Date:	4/30/2014
Well Diameter:	2"	(inches)	Measuring Pt:	Yes
Total Depth (TD):	14.34	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	9.66	(ft)	Weather:	Cloudy Warm
Water Column Height (CH):	4.68	(ft) = TD - GW	Additional Notes:	
Well Volume:	0.76	(gals)		
Total Liters Purged:	3.75	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
9:43	125	9.93	15.00	.690	1.91	6.34	91	N/A	CL
9:48	125	9.94	14.98	.692	1.81	6.33	121	N/A	CL
9:53	125	9.94	14.84	.699	1.29	6.36	117	N/A	CL
9:58	125	9.94	15.10	.694	1.18	6.37	113	N/A	C
10:03	125	9.94	14.85	.703	1.41	6.37	106	N/A	C
10:08	125	9.94	14.91	.696	1.89	6.38	106	N/A	C
10:13	125	9.95	14.86	.694	2.05	6.38	103	N/A	C
10:18	125	9.95	14.84	.692	1.93	6.38	97	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low Flow sampling using a Geo pump, YSI 556 water meter, and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 10:22

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40mL VOA's	HCL	VOC's	N/A	N/A	N/A	N/A

Note sample time, parameters, duplicates, field blanks, etc.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-16		Date:	4/30/2014
Well Diameter:	2"	(inches)	Measuring Pt:	Yes
Total Depth (TD):	15.36	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	9.83	(ft)	Weather:	Cloudy Warm
Water Column Height (CH):	5.53	(ft) = TD - GW	Additional Notes:	
Well Volume:	0.90	(gals)		
Total Liters Purged:	3.75	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
8:03	125	9.82	14.81	.117	1.69	5.91	122	N/A	CL
8:08	125	9.84	14.29	.116	1.71	5.99	133	N/A	CL
8:13	125	9.84	14.22	.117	1.78	5.93	136	N/A	CL
8:18	125	9.84	14.06	.118	1.70	5.65	139	N/A	C
8:23	125	9.84	14.10	.116	1.79	5.54	139	N/A	C
8:28	125	9.84	14.03	.116	1.77	5.40	121	N/A	C
8:33	125	9.85	14.02	.116	1.76	5.42	139	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low Flow sampling using a Geo pump, YSI 556 water meter, and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 8:35

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40mL VOA's	HCL	VOC's	N/A	N/A	N/A	N/A

Note sample time, parameters, duplicates, field blanks, etc.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-17		Date:	4/30/2014
Well Diameter:	2"	(inches)	Measuring Pt:	Yes
Total Depth (TD):	17.32	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	9.43	(ft)	Weather:	Cloudy Warm
Water Column Height (CH):	7.89	(ft) = TD - GW	Additional Notes:	
Well Volume:	1.29	(gals)		
Total Liters Purged:	3.13	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
8:58	125	9.43.	15.79	.175	1.83	6.09	64	N/A	CL
9:03	125	9.43	15.6+5	.174	.84	6.08	78	N/A	AC
9:08	125	9.44	15.57	.175	1.03	6.08	84	N/A	C
9:13	125	9.44	15.63	.176	1.07	6.08	89	N/A	C
9:18	125	9.45	15.58	.177	1.04	6.09	92	N/A	C
9:23	125	9.45	15.57	.176	1.02	6.09	89	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low Flow sampling using a Geo pump, YSI 556 water meter, and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 9:28

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40mL VOA's	HCL	VOC's	N/A	N/A	N/A	N/A

Note sample time, parameters, duplicates, field blanks, etc.

Appendix B
Laboratory Data Reports – April 2014

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

May 06, 2014

Len Diprima
Woodard & Curran
2055 Sugarloaf Circle
Duluth GA 30094

TEL: (770) 622-6766
FAX:

RE: Fashion Care

Dear Len Diprima: Order No: 1404S61

Analytical Environmental Services, Inc. received 14 samples on 4/30/2014 11:58:00 AM for the analyses presented in following report.

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

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

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

Chantelle Kanhai
Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3080 Presidential Drive, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

AES

CHAIN OF CUSTODY

1404561 Work Order: ~~1404561~~ ~~5095~~

Date: 4-30-14 Page 1 of 1 5/1/14

COMPANY: Woodard & Curran

ADDRESS: 2055 Sugarloaf Circle Suite 175 Duluth GA 30097

PHONE: 770-622-6766

FAX: 770-396-0095

SAMPLED BY: Joe King

SIGNATURE: Joe DK

ANALYSIS REQUESTED: VOC TCL

PRESERVATION (See codes): H+I

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOC TCL	REMARKS	No # of Containers
1	SW-1	4-28-14	1118	X		SW	X		2
2	SW-2	4-28-14	1138	X		SW	X		2
3	SW-3	4-28-14	1150	X		SW	X		2
4	FMW-1	4-28-14	1345	X		GW	X		2
5	FMW-4	4-29-14	0944	X		GW	X		2
6	FMW-5	4-29-14	1038	X		GW	X		2
7	FMW-6	4-29-14	1118	X		GW	X		2
8	FMW-9	4-29-14	1215	X		GW	X		2
9	FMW-13	4-29-14	1324	X		GW	X		2
10	FMW-14	4-29-14	1435	X		GW	X		2
11	FMW-16	4-30-14	0835	X		GW	X		2
12	FMW-17	4-30-14	0928	X		GW	X		2
13	FMW-15	4-30-14	1022	X		GW	X		2
14	Dup-1	4-28-14		X		GW	X		2

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Joe DK	4-30-14 / 1153	1: Latoya R	4/30/14 11:58a
2:		2:	
3:		3:	

PROJECT INFORMATION

PROJECT NAME: Fashion Care

PROJECT #: 226203.00

SITE ADDRESS:

SEND REPORT TO: Len Diprima

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 28

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

STATE PROGRAM (if any):

E-mail? Y / N; Fax? Y / N

DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER

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

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

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

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	SW-1
Project Name:	Fashion Care	**Collection Date:**	4/28/2014 11:18:00 AM
Lab ID:	1404S61-001	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 18:33	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 18:33	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/03/2014 18:33	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 18:33	GK
Benzene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 18:33	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 18:33	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 18:33	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 18:33	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	SW-1
Project Name:	Fashion Care	**Collection Date:**	4/28/2014 11:18:00 AM
Lab ID:	1404S61-001	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Tetrachloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Toluene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Vinyl chloride	BRL	2.0		ug/L	190517	1	05/03/2014 18:33	GK
Surr: 4-Bromofluorobenzene	90.2	66.2-120		%REC	190517	1	05/03/2014 18:33	GK
Surr: Dibromofluoromethane	95.4	79.5-121		%REC	190517	1	05/03/2014 18:33	GK
Surr: Toluene-d8	98.9	77-117		%REC	190517	1	05/03/2014 18:33	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	SW-2
Project Name:	Fashion Care	**Collection Date:**	4/28/2014 11:38:00 AM
Lab ID:	1404S61-002	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 19:00	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 19:00	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/03/2014 19:00	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 19:00	GK
Benzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 19:00	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 19:00	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 19:00	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 19:00	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	SW-2
Project Name:	Fashion Care	**Collection Date:**	4/28/2014 11:38:00 AM
Lab ID:	1404S61-002	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Tetrachloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Toluene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Vinyl chloride	BRL	2.0		ug/L	190517	1	05/03/2014 19:00	GK
Surr: 4-Bromofluorobenzene	91.2	66.2-120		%REC	190517	1	05/03/2014 19:00	GK
Surr: Dibromofluoromethane	95.2	79.5-121		%REC	190517	1	05/03/2014 19:00	GK
Surr: Toluene-d8	96.7	77-117		%REC	190517	1	05/03/2014 19:00	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	SW-3
Project Name:	Fashion Care	**Collection Date:**	4/28/2014 11:50:00 AM
Lab ID:	1404S61-003	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 19:26	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 19:26	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/03/2014 19:26	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 19:26	GK
Benzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 19:26	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 19:26	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 19:26	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 19:26	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	SW-3
Project Name:	Fashion Care	**Collection Date:**	4/28/2014 11:50:00 AM
Lab ID:	1404S61-003	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Tetrachloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Toluene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Vinyl chloride	BRL	2.0		ug/L	190517	1	05/03/2014 19:26	GK
Surr: 4-Bromofluorobenzene	90.5	66.2-120		%REC	190517	1	05/03/2014 19:26	GK
Surr: Dibromofluoromethane	92.7	79.5-121		%REC	190517	1	05/03/2014 19:26	GK
Surr: Toluene-d8	98.4	77-117		%REC	190517	1	05/03/2014 19:26	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-1
Project Name:	Fashion Care	**Collection Date:**	4/28/2014 1:45:00 PM
Lab ID:	1404S61-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 19:53	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 19:53	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/03/2014 19:53	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 19:53	GK
Benzene	240	100		ug/L	190517	20	05/05/2014 13:58	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 19:53	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 19:53	GK
cis-1,2-Dichloroethene	49	5.0		ug/L	190517	1	05/03/2014 19:53	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Cyclohexane	61	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 19:53	GK
Ethylbenzene	250	100		ug/L	190517	20	05/05/2014 13:58	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 19:53	GK
Isopropylbenzene	14	5.0		ug/L	190517	1	05/03/2014 19:53	GK
m,p-Xylene	660	100		ug/L	190517	20	05/05/2014 13:58	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Methyl tert-butyl ether	1400	100		ug/L	190517	20	05/05/2014 13:58	GK
Methylcyclohexane	49	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
o-Xylene	240	100		ug/L	190517	20	05/05/2014 13:58	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-1
Project Name:	Fashion Care	**Collection Date:**	4/28/2014 1:45:00 PM
Lab ID:	1404S61-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Tetrachloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Toluene	770	100		ug/L	190517	20	05/05/2014 13:58	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Vinyl chloride	22	2.0		ug/L	190517	1	05/03/2014 19:53	GK
Surr: 4-Bromofluorobenzene	96.2	66.2-120		%REC	190517	1	05/03/2014 19:53	GK
Surr: 4-Bromofluorobenzene	90.4	66.2-120		%REC	190517	20	05/05/2014 13:58	GK
Surr: Dibromofluoromethane	92.5	79.5-121		%REC	190517	1	05/03/2014 19:53	GK
Surr: Dibromofluoromethane	91	79.5-121		%REC	190517	20	05/05/2014 13:58	GK
Surr: Toluene-d8	98.8	77-117		%REC	190517	1	05/03/2014 19:53	GK
Surr: Toluene-d8	96.3	77-117		%REC	190517	20	05/05/2014 13:58	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-4
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 9:44:00 AM
Lab ID:	1404S61-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,1,2-Trichloroethane	14	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,1-Dichloroethene	27	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,2-Dichlorobenzene	5.2	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 20:20	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 20:20	GK
4-Methyl-2-pentanone	12	10		ug/L	190517	1	05/03/2014 20:20	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 20:20	GK
Benzene	3100	250		ug/L	190517	50	05/05/2014 12:37	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 20:20	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 20:20	GK
cis-1,2-Dichloroethene	40000	2500		ug/L	190517	500	05/05/2014 14:52	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Cyclohexane	64	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 20:20	GK
Ethylbenzene	530	250		ug/L	190517	50	05/05/2014 12:37	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 20:20	GK
Isopropylbenzene	41	5.0		ug/L	190517	1	05/03/2014 20:20	GK
m,p-Xylene	230	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Methyl tert-butyl ether	700	250		ug/L	190517	50	05/05/2014 12:37	GK
Methylcyclohexane	43	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
o-Xylene	220	100		ug/L	190517	50	05/05/2014 12:37	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-4
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 9:44:00 AM
Lab ID:	1404S61-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Tetrachloroethene	4900	250		ug/L	190517	50	05/05/2014 12:37	GK
Toluene	600	250		ug/L	190517	50	05/05/2014 12:37	GK
trans-1,2-Dichloroethene	320	250		ug/L	190517	50	05/05/2014 12:37	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Trichloroethene	1800	250		ug/L	190517	50	05/05/2014 12:37	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Vinyl chloride	1600	100		ug/L	190517	50	05/05/2014 12:37	GK
Surr: 4-Bromofluorobenzene	89.5	66.2-120		%REC	190517	500	05/05/2014 14:52	GK
Surr: 4-Bromofluorobenzene	91.9	66.2-120		%REC	190517	50	05/05/2014 12:37	GK
Surr: 4-Bromofluorobenzene	94.5	66.2-120		%REC	190517	1	05/03/2014 20:20	GK
Surr: Dibromofluoromethane	91	79.5-121		%REC	190517	500	05/05/2014 14:52	GK
Surr: Dibromofluoromethane	93.3	79.5-121		%REC	190517	50	05/05/2014 12:37	GK
Surr: Dibromofluoromethane	92.9	79.5-121		%REC	190517	1	05/03/2014 20:20	GK
Surr: Toluene-d8	95.4	77-117		%REC	190517	500	05/05/2014 14:52	GK
Surr: Toluene-d8	95.9	77-117		%REC	190517	50	05/05/2014 12:37	GK
Surr: Toluene-d8	98.2	77-117		%REC	190517	1	05/03/2014 20:20	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-5
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 10:38:00 AM
Lab ID:	1404S61-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
2-Butanone	BRL	50		ug/L	190517	1	05/05/2014 15:18	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/05/2014 15:18	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/05/2014 15:18	GK
Acetone	BRL	50		ug/L	190517	1	05/05/2014 15:18	GK
Benzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Chloroethane	BRL	10		ug/L	190517	1	05/05/2014 15:18	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Chloromethane	BRL	10		ug/L	190517	1	05/05/2014 15:18	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/05/2014 15:18	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Freon-113	BRL	10		ug/L	190517	1	05/05/2014 15:18	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-5
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 10:38:00 AM
Lab ID:	1404S61-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Tetrachloroethene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Toluene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Vinyl chloride	BRL	2.0		ug/L	190517	1	05/05/2014 15:18	GK
Surr: 4-Bromofluorobenzene	90.7	66.2-120		%REC	190517	1	05/05/2014 15:18	GK
Surr: Dibromofluoromethane	92.4	79.5-121		%REC	190517	1	05/05/2014 15:18	GK
Surr: Toluene-d8	96.6	77-117		%REC	190517	1	05/05/2014 15:18	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-6
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 11:18:00 AM
Lab ID:	1404S61-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 21:13	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 21:13	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/03/2014 21:13	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 21:13	GK
Benzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 21:13	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 21:13	GK
cis-1,2-Dichloroethene	920	250		ug/L	190517	50	05/05/2014 13:04	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 21:13	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 21:13	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Methyl tert-butyl ether	52	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-6
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 11:18:00 AM
Lab ID:	1404S61-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Tetrachloroethene	3100	250		ug/L	190517	50	05/05/2014 13:04	GK
Toluene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
trans-1,2-Dichloroethene	16	5.0		ug/L	190517	1	05/03/2014 21:13	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Trichloroethene	260	250		ug/L	190517	50	05/05/2014 13:04	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Vinyl chloride	BRL	2.0		ug/L	190517	1	05/03/2014 21:13	GK
Surr: 4-Bromofluorobenzene	90.9	66.2-120		%REC	190517	50	05/05/2014 13:04	GK
Surr: 4-Bromofluorobenzene	90.7	66.2-120		%REC	190517	1	05/03/2014 21:13	GK
Surr: Dibromofluoromethane	95.6	79.5-121		%REC	190517	50	05/05/2014 13:04	GK
Surr: Dibromofluoromethane	96	79.5-121		%REC	190517	1	05/03/2014 21:13	GK
Surr: Toluene-d8	96.5	77-117		%REC	190517	50	05/05/2014 13:04	GK
Surr: Toluene-d8	98.5	77-117		%REC	190517	1	05/03/2014 21:13	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-9
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 12:15:00 PM
Lab ID:	1404S61-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 21:40	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 21:40	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/03/2014 21:40	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 21:40	GK
Benzene	35	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 21:40	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 21:40	GK
cis-1,2-Dichloroethene	820	250		ug/L	190517	50	05/05/2014 13:31	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 21:40	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 21:40	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Methyl tert-butyl ether	260	250		ug/L	190517	50	05/05/2014 13:31	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-9
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 12:15:00 PM
Lab ID:	1404S61-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Tetrachloroethene	2300	250		ug/L	190517	50	05/05/2014 13:31	GK
Toluene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
trans-1,2-Dichloroethene	14	5.0		ug/L	190517	1	05/03/2014 21:40	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Trichloroethene	250	250		ug/L	190517	50	05/05/2014 13:31	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Vinyl chloride	20	2.0		ug/L	190517	1	05/03/2014 21:40	GK
Surr: 4-Bromofluorobenzene	90.5	66.2-120		%REC	190517	50	05/05/2014 13:31	GK
Surr: 4-Bromofluorobenzene	91.2	66.2-120		%REC	190517	1	05/03/2014 21:40	GK
Surr: Dibromofluoromethane	91.9	79.5-121		%REC	190517	50	05/05/2014 13:31	GK
Surr: Dibromofluoromethane	95.5	79.5-121		%REC	190517	1	05/03/2014 21:40	GK
Surr: Toluene-d8	96.7	77-117		%REC	190517	50	05/05/2014 13:31	GK
Surr: Toluene-d8	99.2	77-117		%REC	190517	1	05/03/2014 21:40	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-13
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 1:24:00 PM
Lab ID:	1404S61-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
2-Butanone	BRL	50		ug/L	190517	1	05/05/2014 15:45	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/05/2014 15:45	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/05/2014 15:45	GK
Acetone	BRL	50		ug/L	190517	1	05/05/2014 15:45	GK
Benzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Chloroethane	BRL	10		ug/L	190517	1	05/05/2014 15:45	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Chloromethane	BRL	10		ug/L	190517	1	05/05/2014 15:45	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/05/2014 15:45	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Freon-113	BRL	10		ug/L	190517	1	05/05/2014 15:45	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-13
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 1:24:00 PM
Lab ID:	1404S61-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Tetrachloroethene	10	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Toluene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Vinyl chloride	BRL	2.0		ug/L	190517	1	05/05/2014 15:45	GK
Surr: 4-Bromofluorobenzene	90.5	66.2-120		%REC	190517	1	05/05/2014 15:45	GK
Surr: Dibromofluoromethane	93.1	79.5-121		%REC	190517	1	05/05/2014 15:45	GK
Surr: Toluene-d8	95.5	77-117		%REC	190517	1	05/05/2014 15:45	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-14
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 2:35:00 PM
Lab ID:	1404S61-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 23:01	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 23:01	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/03/2014 23:01	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 23:01	GK
Benzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 23:01	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 23:01	GK
cis-1,2-Dichloroethene	7.1	5.0		ug/L	190517	1	05/03/2014 23:01	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 23:01	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 23:01	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-14
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 2:35:00 PM
Lab ID:	1404S61-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Tetrachloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Toluene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Vinyl chloride	BRL	2.0		ug/L	190517	1	05/03/2014 23:01	GK
Surr: 4-Bromofluorobenzene	90.3	66.2-120		%REC	190517	1	05/03/2014 23:01	GK
Surr: Dibromofluoromethane	94.2	79.5-121		%REC	190517	1	05/03/2014 23:01	GK
Surr: Toluene-d8	98.2	77-117		%REC	190517	1	05/03/2014 23:01	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-16
Project Name:	Fashion Care	**Collection Date:**	4/30/2014 8:35:00 AM
Lab ID:	1404S61-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 22:34	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 22:34	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/03/2014 22:34	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 22:34	GK
Benzene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 22:34	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 22:34	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 22:34	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 22:34	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-16
Project Name:	Fashion Care	**Collection Date:**	4/30/2014 8:35:00 AM
Lab ID:	1404S61-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Tetrachloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Toluene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Vinyl chloride	BRL	2.0		ug/L	190517	1	05/03/2014 22:34	GK
Surr: 4-Bromofluorobenzene	89.3	66.2-120		%REC	190517	1	05/03/2014 22:34	GK
Surr: Dibromofluoromethane	93	79.5-121		%REC	190517	1	05/03/2014 22:34	GK
Surr: Toluene-d8	99.8	77-117		%REC	190517	1	05/03/2014 22:34	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-17
Project Name:	Fashion Care	**Collection Date:**	4/30/2014 9:28:00 AM
Lab ID:	1404S61-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 23:28	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 23:28	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/03/2014 23:28	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 23:28	GK
Benzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 23:28	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 23:28	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 23:28	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 23:28	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-17
Project Name:	Fashion Care	**Collection Date:**	4/30/2014 9:28:00 AM
Lab ID:	1404S61-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Tetrachloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Toluene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Vinyl chloride	BRL	2.0		ug/L	190517	1	05/03/2014 23:28	GK
Surr: 4-Bromofluorobenzene	92.4	66.2-120		%REC	190517	1	05/03/2014 23:28	GK
Surr: Dibromofluoromethane	93.8	79.5-121		%REC	190517	1	05/03/2014 23:28	GK
Surr: Toluene-d8	98.7	77-117		%REC	190517	1	05/03/2014 23:28	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-15
Project Name:	Fashion Care	**Collection Date:**	4/30/2014 10:22:00 AM
Lab ID:	1404S61-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 23:54	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 23:54	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/03/2014 23:54	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 23:54	GK
Benzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 23:54	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 23:54	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 23:54	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 23:54	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-15
Project Name:	Fashion Care	**Collection Date:**	4/30/2014 10:22:00 AM
Lab ID:	1404S61-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Tetrachloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Toluene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Vinyl chloride	BRL	2.0		ug/L	190517	1	05/03/2014 23:54	GK
Surr: 4-Bromofluorobenzene	91.5	66.2-120		%REC	190517	1	05/03/2014 23:54	GK
Surr: Dibromofluoromethane	92.9	79.5-121		%REC	190517	1	05/03/2014 23:54	GK
Surr: Toluene-d8	97.4	77-117		%REC	190517	1	05/03/2014 23:54	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	DUP-1
Project Name:	Fashion Care	**Collection Date:**	4/28/2014
Lab ID:	1404S61-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
2-Butanone	BRL	50		ug/L	190517	1	05/04/2014 00:21	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/04/2014 00:21	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/04/2014 00:21	GK
Acetone	BRL	50		ug/L	190517	1	05/04/2014 00:21	GK
Benzene	280	100		ug/L	190517	20	05/05/2014 14:25	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Chloroethane	BRL	10		ug/L	190517	1	05/04/2014 00:21	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Chloromethane	BRL	10		ug/L	190517	1	05/04/2014 00:21	GK
cis-1,2-Dichloroethene	46	5.0		ug/L	190517	1	05/04/2014 00:21	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Cyclohexane	70	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/04/2014 00:21	GK
Ethylbenzene	270	100		ug/L	190517	20	05/05/2014 14:25	GK
Freon-113	BRL	10		ug/L	190517	1	05/04/2014 00:21	GK
Isopropylbenzene	16	5.0		ug/L	190517	1	05/04/2014 00:21	GK
m,p-Xylene	700	100		ug/L	190517	20	05/05/2014 14:25	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Methyl tert-butyl ether	1600	100		ug/L	190517	20	05/05/2014 14:25	GK
Methylcyclohexane	60	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
o-Xylene	250	100		ug/L	190517	20	05/05/2014 14:25	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	DUP-1
Project Name:	Fashion Care	**Collection Date:**	4/28/2014
Lab ID:	1404S61-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Tetrachloroethene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Toluene	870	100		ug/L	190517	20	05/05/2014 14:25	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Vinyl chloride	21	2.0		ug/L	190517	1	05/04/2014 00:21	GK
Surr: 4-Bromofluorobenzene	96.1	66.2-120		%REC	190517	1	05/04/2014 00:21	GK
Surr: 4-Bromofluorobenzene	92.5	66.2-120		%REC	190517	20	05/05/2014 14:25	GK
Surr: Dibromofluoromethane	92.1	79.5-121		%REC	190517	1	05/04/2014 00:21	GK
Surr: Dibromofluoromethane	91	79.5-121		%REC	190517	20	05/05/2014 14:25	GK
Surr: Toluene-d8	101	77-117		%REC	190517	1	05/04/2014 00:21	GK
Surr: Toluene-d8	97.5	77-117		%REC	190517	20	05/05/2014 14:25	GK

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Woodard + Curran Work Order Number 1405~~045~~ 4561 5/1/14

Checklist completed by [signature] 5/1/14
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

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

Cooler #1 3.2°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Client: Woodard & Curran
Project Name: Fashion Care
Workorder: 1404S61

ANALYTICAL QC SUMMARY REPORT

BatchID: **190517**

Sample ID: **MB-190517** Client ID: Units: **ug/L** Prep Date: **05/01/2014** Run No: **266685**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **190517** Analysis Date: **05/01/2014** Seq No: **5623899**

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

Qualifiers:

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

Client: Woodard & Curran
Project Name: Fashion Care
Workorder: 1404S61

ANALYTICAL QC SUMMARY REPORT

BatchID: **190517**

Sample ID: **MB-190517** Client ID: Units: **ug/L** Prep Date: **05/01/2014** Run No: **266685**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **190517** Analysis Date: **05/01/2014** Seq No: **5623899**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	45.82	0	50.00		91.6	66.2	120				
Surr: Dibromofluoromethane	45.97	0	50.00		91.9	79.5	121				
Surr: Toluene-d8	48.84	0	50.00		97.7	77	117				

Qualifiers:

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

Client: Woodard & Curran
Project Name: Fashion Care
Workorder: 1404S61

ANALYTICAL QC SUMMARY REPORT

BatchID: 190517

Sample ID: **LCS-190517** Client ID: Units: **ug/L** Prep Date: **05/01/2014** Run No: **266685**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **190517** Analysis Date: **05/01/2014** Seq No: **5624176**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	45.33	5.0	50.00		90.7	63.1	140				
Benzene	46.75	5.0	50.00		93.5	74.2	129				
Chlorobenzene	47.89	5.0	50.00		95.8	70	129				
Toluene	48.55	5.0	50.00		97.1	74.2	129				
Trichloroethene	49.72	5.0	50.00		99.4	71.2	135				
Surr: 4-Bromofluorobenzene	47.96	0	50.00		95.9	66.2	120				
Surr: Dibromofluoromethane	48.62	0	50.00		97.2	79.5	121				
Surr: Toluene-d8	50.10	0	50.00		100	77	117				

Sample ID: **1405115-006AMS** Client ID: Units: **ug/L** Prep Date: **05/01/2014** Run No: **266782**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **190517** Analysis Date: **05/02/2014** Seq No: **5624435**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	39.16	5.0	50.00		78.3	60.2	159				
Benzene	47.65	5.0	50.00		95.3	70.2	138				
Chlorobenzene	48.50	5.0	50.00		97.0	70.1	133				
Toluene	49.88	5.0	50.00		99.8	70	139				
Trichloroethene	51.16	5.0	50.00		102	70.1	144				
Surr: 4-Bromofluorobenzene	47.03	0	50.00		94.1	66.2	120				
Surr: Dibromofluoromethane	48.65	0	50.00		97.3	79.5	121				
Surr: Toluene-d8	49.53	0	50.00		99.1	77	117				

Sample ID: **1405115-006AMSD** Client ID: Units: **ug/L** Prep Date: **05/01/2014** Run No: **266782**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **190517** Analysis Date: **05/02/2014** Seq No: **5624547**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	39.86	5.0	50.00		79.7	60.2	159	39.16	1.77	19.2	
Benzene	48.59	5.0	50.00		97.2	70.2	138	47.65	1.95	20	

Qualifiers:

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

Client: Woodard & Curran
Project Name: Fashion Care
Workorder: 1404S61

ANALYTICAL QC SUMMARY REPORT

BatchID: **190517**

Sample ID: **1405115-006AMSD** Client ID: Units: **ug/L** Prep Date: **05/01/2014** Run No: **266782**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **190517** Analysis Date: **05/02/2014** Seq No: **5624547**

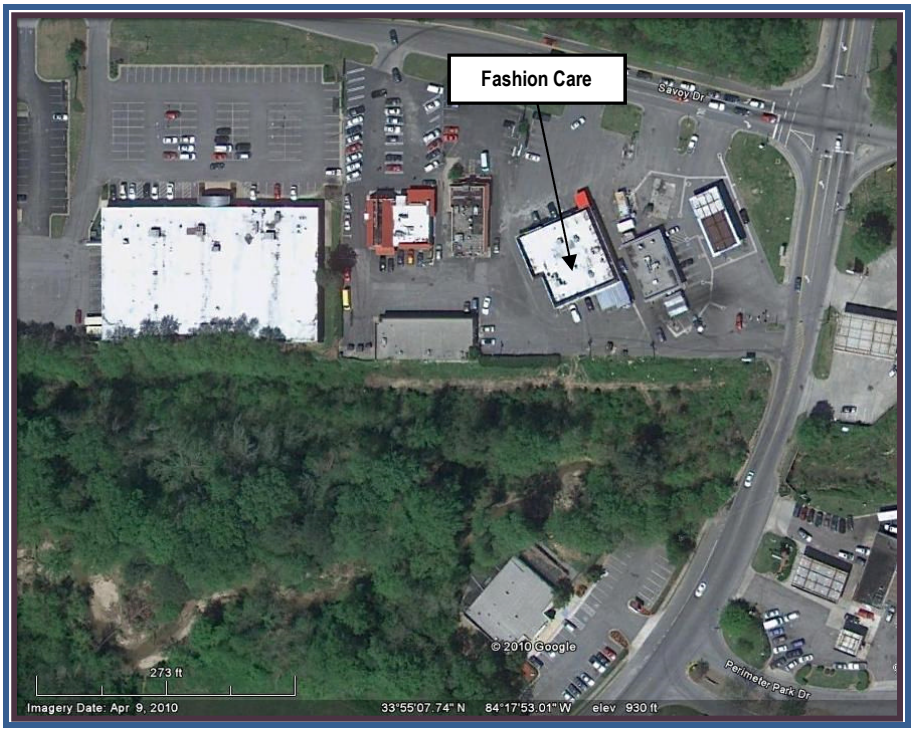
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	49.09	5.0	50.00		98.2	70.1	133	48.50	1.21	20	
Toluene	50.51	5.0	50.00		101	70	139	49.88	1.26	20	
Trichloroethene	52.12	5.0	50.00		104	70.1	144	51.16	1.86	20	
Surr: 4-Bromofluorobenzene	47.26	0	50.00		94.5	66.2	120	47.03	0	0	
Surr: Dibromofluoromethane	49.31	0	50.00		98.6	79.5	121	48.65	0	0	
Surr: Toluene-d8	49.10	0	50.00		98.2	77	117	49.53	0	0	

Qualifiers:

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

Appendix C
Surface Water Corrective Action Plan

Surface Water Corrective Action Plan
Voluntary Remediation Program



Fashion Care/Executive Care Site
2211 Savoy Drive, Chamblee, DeKalb County, Georgia

-

- **Prepared For**

John F. Rowan, Sr. Item IV Trust
PO Box 197, Carmel Valley, CA 93924

Prepared by

WOODARD &CURRAN

2055 Sugarloaf Parkway, Suite 175
Duluth, Georgia 30097

Project No. 226203

July 2, 2014

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1. BACKGROUND

This Surface Water Corrective Action Plan (SWCAP) has been prepared on behalf of the John F. Rowan, Sr. Item IV Trust (Trust) as part of the Voluntary Investigation and Remediation Plan for the Fashion Care/Executive Care Site (Site) located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia (see Figure 1). At the time this SWCAP was prepared, the Site remains listed on the Georgia Hazardous Site Inventory (HSI) as site No. 10786. The Site was listed in the HSI due to a release of tetrachloroethene (PCE) from historical drycleaner operations conducted in the western half of the building located on the Trust property. Investigations were conducted under the HSRA Program and later the VRP Program, which fully delineated the extent of impacts to soil and groundwater. Both soil and groundwater contain PCE and its degradation constituents. The extent of these constituents in soil at the time of this report are shown in Figure 2, and the extent of constituents in groundwater are shown in Figure 3. The groundwater plume extends from the point of release to the South and West where it intersects Nancy Creek. To date, 12 rounds of surface water samples have been collected in Nancy Creek to determine the presence or absence of PCE and its degradation constituents. Surface water samples have been collected since 2008. Samples have been collected at various flow conditions, including extremely low flow conditions below the calculated 7Q10 for the section of Nancy Creek at the Site. All surface water samples to this time have not detected any constituents.

This SWCAP has been prepared to set forth a plan of action in the event drycleaner constituents from the Site are identified in the future in Nancy Creek. It will be implemented in conjunction with the implementation of a VRP Groundwater and Surface Water Monitoring Plan for the Site, if required by the EPD.

2. SURFACE WATER CORRECTIVE ACTION PLAN

EPD required the development of a SWCAP for the Site for implementation in the event that constituents of concern associated with the Fashion Care release should be identified in Nancy Creek during a future VRP surface water sampling event for the Site. The results of service water sampling events conducted to date are shown in Table 1. The sample locations associated with Table 1 are shown in Figure 3. No constituents associated with the release of PCE at the Site have been identified in Nancy Creek to date.

2.1 ACTION PLAN

Listed below are the steps to be taken should drycleaner constituents from the Site be identified in the future in Nancy Creek.

1. In the event constituents suspected to be associated with the drycleaner release from the Site are identified in Nancy Creek, the EPD will be notified in writing within 14 days. This notification will include a copy of the laboratory data report and a figure showing the locations where the samples were collected and methods of collection. The constituent detections will be tabulated and compared to Georgia Instream Water Quality Standards (ISWQS) and/or other surface water standards in effect at the time of the detection that are utilized by the EPD.
2. Following a detection of suspected Site constituents in surface water, should EPD deem it necessary after reviewing the information submitted, two additional surface water sampling events will be scheduled to be completed within 45 days of the above notification to the EPD to confirm the presence of drycleaner constituents in Nancy Creek associated with the Site. These sampling events will include the collection of upgradient and downgradient samples.

   The EPD will be sent the results of the confirmation sampling events in the form of a letter report within 14 days of receiving the laboratory data reports from both sampling events. Letter report will include a copy of the laboratory data reports from the sampling events, methods of sample collection, the sampling results tabulated and compared to Georgia Instream Water Quality Standards (ISWQS) and/or other surface water standards in effect at the time of the detection that are utilized by the EPD, and a figure showing the locations where the samples were collected.
3. Should the confirmation sampling events indicate the surface water detections were an anomaly, and upon EPD's concurrence with this conclusion, no further action will be conducted.
4. Should the sampling events in Step 2 above confirm the surface water detections identified in the original sampling event and confirm the constituents identified are associated with the historical release from the Site; upon EPD's concurrence with this conclusion, a course of action to evaluate the potential risk to human health and the environment of the constituents detected will be proposed in writing to the EPD within 30 days. The risk assessment methods proposed will be in accordance with current EPD and USEPA methods. The results of this Risk Assessment will be submitted to the EPD within 45 days of EPD's approval to proceed with the risk evaluation.
5. Should the human health and environmental risk assessment indicate a level of risk requiring action, a corrective action plan to mitigate this risk will be presented to the EPD for review within 60 days. The corrective action plan will include an initial design /scope of work and schedule for implementation.

Upon EPD's approval of the corrective action plan described in Step 5 above, actions to mitigate the release to surface water will be implemented according to the EPD approved schedule.

2.2 TERMINATION OF PLAN

This SWCAP will be implemented in conjunction with the implementation of a VRP Groundwater and Surface Water Monitoring Plan for this Site. Of the point in time at which EPD concurs that no further groundwater and surface water monitoring is required associated with the Fashion Care Site, this SWCAP would be terminated, and the notification and reporting requirements described herein would no longer be in effect.

Table 1: Surface Water Data through April 2014

Table 1
Surface Water through April 2014
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3
	Date Sampled		9/8/08	9/8/08	9/8/08	1/5/10	1/5/10	1/5/10	10/6/11	10/6/11	10/6/11
Volatile Organic Compounds (mg/L)											
Fashion Care HSRA Site Constituents of Interest											
1,1-Dichloroethene		75-35-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
cis-1, 2-Dichloroethene		156-59-2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Tetrachloroethene (PCE)		127-18-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
trans-1, 2-Dichloroethene		156-60-5	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Trichloroethene (TCE)		79-01-6	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Vinyl Chloride		75-01-4	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring, Laboratory Artifacts or Attributed to Other Sources											
1,2-Dichlorobenzene		95-50-1	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Acetone		67-64-1	<0.002	<0.002	<0.002	<0.05	<0.05	<0.05	0.022	<0.02	<0.02
Chlorobenzene		108-90-7	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Chloromethane		74-87-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE											
1,2-Dibromoethane (EDB)		106-93-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
1, 2-Dichloroethane		107-06-2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
2-Butanone (MEK)		78-93-3	<0.002	<0.002	<0.002	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01
4-Methyl-2-pentanone (MIBK)		108-10-1	<0.002	<0.002	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Cyclohexane		110-82-7	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.002	<0.002	<0.002
Ethylbenzene		100-41-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Isopropylbenzene		98-82-8	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Methyl tert-butyl ether (MTBE)		1634-04-4	<0.002	<0.002	<0.002	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Styrene		100-42-5	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Toluene		108-88-3	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Xylenes, Total		1330-20-7	<0.002	<0.002	<0.002	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001

Table 1
Surface Water through April 2014
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3
	Date Sampled		10/7/11	10/7/11	10/7/11	10/8/11	10/8/11	10/8/11	10/9/11	10/9/11	10/9/11
Volatile Organic Compounds (mg/L)											
Fashion Care HSRA Site Constituents of Interest											
1,1-Dichloroethene		75-35-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1, 2-Dichloroethene		156-59-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene (PCE)		127-18-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1, 2-Dichloroethene		156-60-5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene (TCE)		79-01-6	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride		75-01-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Properly Applied Chemicals, Non-HSRA Regulated Chemica											
1,2-Dichlorobenzene		95-50-1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone		67-64-1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chlorobenzene		108-90-7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane		74-87-3	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	0.002	0.001	<0.001
Petroleum Constituents/VOCs Related to the EZ-Serve UST											
1,2-Dibromoethane (EDB)		106-93-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1, 2-Dichloroethane		107-06-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Butanone (MEK)		78-93-3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Methyl-2-pentanone (MIBK)		108-10-1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cyclohexane		110-82-7	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene		100-41-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene		98-82-8	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-butyl ether (MTBE)		1634-04-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene		100-42-5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene		108-88-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes, Total		1330-20-7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Table 1
Surface Water through April 2014
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3
	Date Sampled		10/21/11	10/21/11	10/21/11	10/22/11	10/22/11	10/22/11	10/23/11	10/23/11	10/23/11
Volatile Organic Compounds (mg/L)											
Fashion Care HSRA Site Constituents of Interest											
1,1-Dichloroethene		75-35-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1, 2-Dichloroethene		156-59-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene (PCE)		127-18-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1, 2-Dichloroethene		156-60-5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene (TCE)		79-01-6	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride		75-01-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Properly Applied Chemicals, Non-HSRA Regulated Chemica											
1,2-Dichlorobenzene		95-50-1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone		67-64-1	0.021	0.022	0.023	0.034	0.037	0.031	0.046	0.040	0.051
Chlorobenzene		108-90-7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane		74-87-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Petroleum Constituents/VOCs Related to the EZ-Serve UST											
1,2-Dibromoethane (EDB)		106-93-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1, 2-Dichloroethane		107-06-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Butanone (MEK)		78-93-3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Methyl-2-pentanone (MIBK)		108-10-1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cyclohexane		110-82-7	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene		100-41-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene		98-82-8	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-butyl ether (MTBE)		1634-04-4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene		100-42-5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene		108-88-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes, Total		1330-20-7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Table 1
Surface Water through April 2014
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3
	Date Sampled		10/24/11	10/24/11	10/24/11	7/11/12	7/11/12	7/11/12	4/28/14	4/28/14	4/28/14
Volatile Organic Compounds (mg/L)											
Fashion Care HSRA Site Constituents of Interest											
1,1-Dichloroethene		75-35-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1, 2-Dichloroethene		156-59-2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Tetrachloroethene (PCE)		127-18-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1, 2-Dichloroethene		156-60-5	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene (TCE)		79-01-6	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl Chloride		75-01-4	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Properly Applied Chemicals, Non-HSRA Regulated Chemica											
1,2-Dichlorobenzene		95-50-1	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone		67-64-1	0.190	0.180	0.200	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorobenzene		108-90-7	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane		74-87-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Petroleum Constituents/VOCs Related to the EZ-Serve UST											
1,2-Dibromoethane (EDB)		106-93-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1, 2-Dichloroethane		107-06-2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone (MEK)		78-93-3	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cyclohexane		110-82-7	<0.002	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene		100-41-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene		98-82-8	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Styrene		100-42-5	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene		108-88-3	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylenes, Total		1330-20-7	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Figure 1: Site Location Map

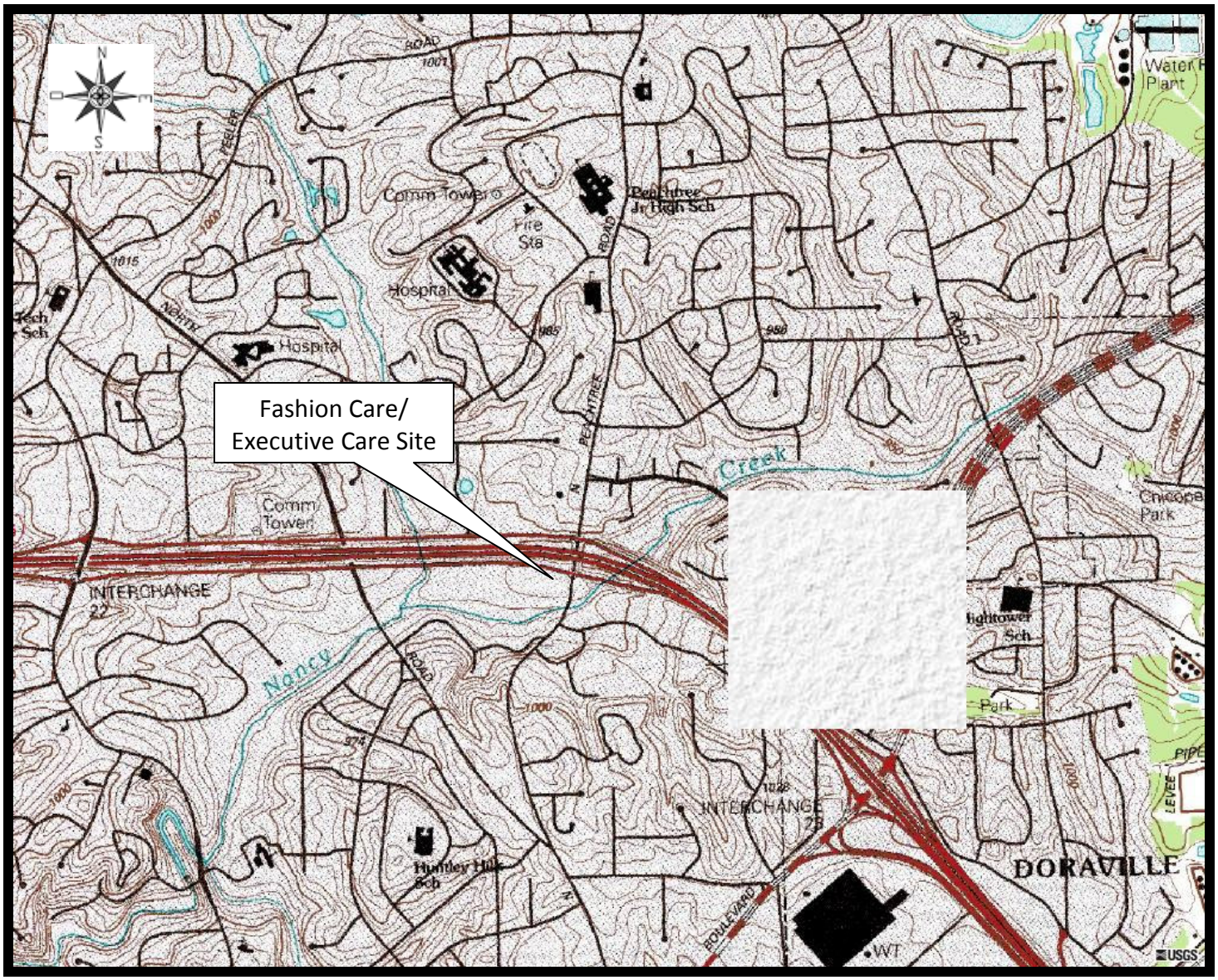
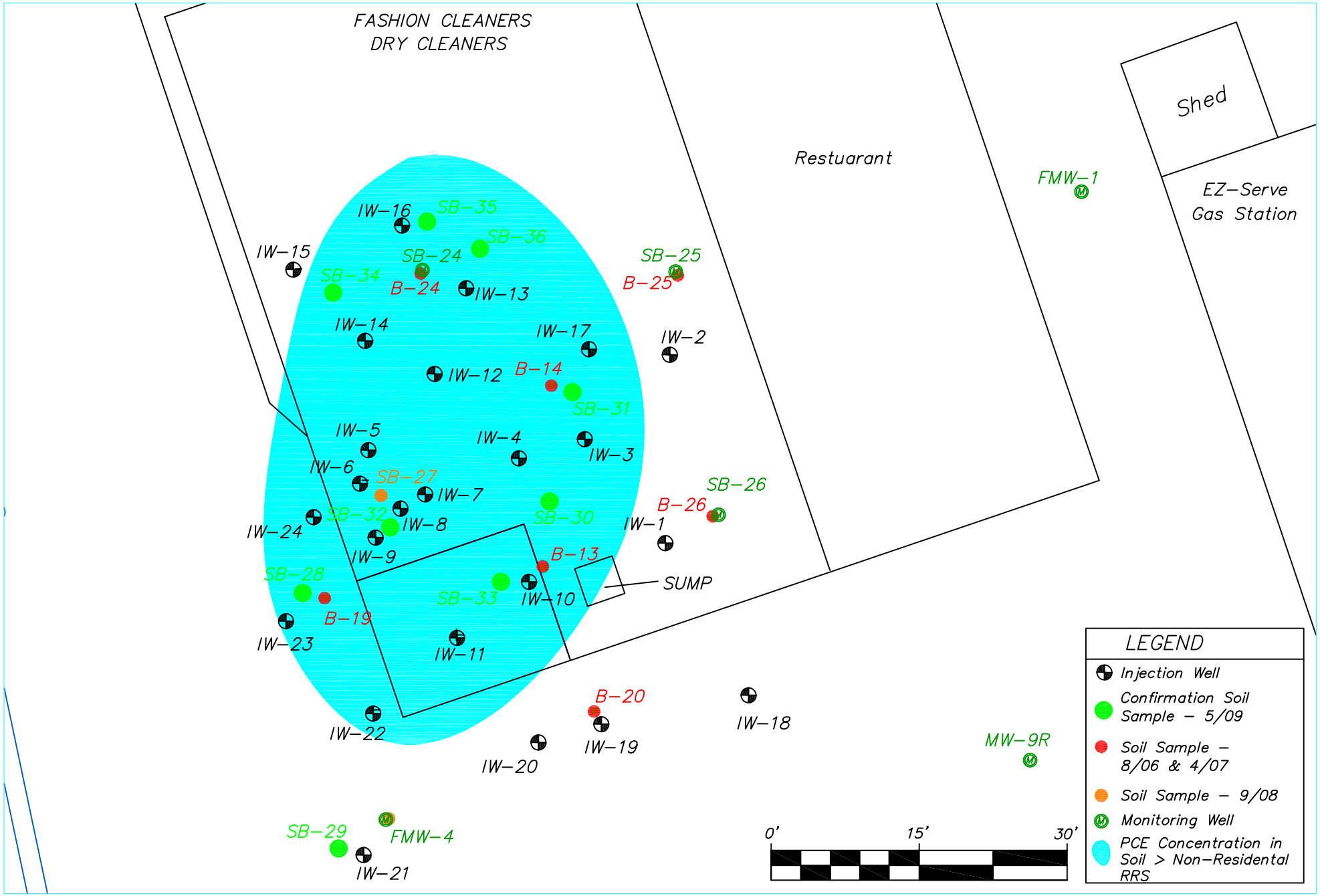


Image courtesy of the U.S. Geological Survey

Figure 1
Site Location Map
Fashion Care/Executive Care HSRA Site
2211 Savoy Drive, Chamblee, Georgia

Figure 2: Extent of Soil Impacts



Date: 8-10-09 | Drawn by: GTM

F:\EBU\Winter Environmental\Projects\2008 Projects\08096-Fashion Care - Executive Care HSRA Site\AutoCAD Drawings\Muse May.2009.dwg

WOODARD & CURRAN

FIGURE 2

Extent of Soil Impacts

May 2009

Fashion Care

Figure 3: April 2014 Groundwater Data Map

2055 Sugarloaf Circle, Suite 175
Duluth, Georgia 30097
770.622.6766 | www.woodardcurran.com

WOODARD & CURRAN

COMMITMENT & INTEGRITY DRIVE RESULTS

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REV	DESCRIPTION	DATE

DESIGNED BY:
DRAWN BY:
CHECKED BY:
04-2014 GW CONTOURS.DWG

FIGURE 3
APRIL, 2014 GROUNDWATER DATA MAP

FASHION CARE EXECUTIVE CARE SITE

2211 SAVOY DRIVE
CHAMBLEE, GA 30341

JOB NO.:
DATE:
SCALE:
SHEET: OF

WOODARD
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Appendix D
Uniform Environmental Covenant Notifications

2014082414 DEED BOOK 24410 Pg 658
Filed and Recorded:
6/5/2014 2:52:43 PM
Debra DeBerry
Clerk of Superior Court
DeKalb County, Georgia

(Above Space Reserved for Recording)

After Recording Return to:

Scott E. Hitch, Esq.
Burr & Forman LLP
171 17th Street NW, Suite 1100
Atlanta, Georgia 30363
404.685.4260

CROSS-REFERENCE:

Deed Book 15562, Page 660,
DeKalb County Records.

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with O.C.G.A § 44-16-8(a).

Fee Owner of Property/Grantor:
The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
PO Box 197
Carmel Valley, CA 93924

Grantee/Holder:
The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
PO Box 197
Carmel Valley, CA 93924

Grantee/Entity with express power to enforce:
State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1456 East Tower
Atlanta, GA 30334

Parties with interest in the Property:
None

Property:

The property subject to this Environmental Covenant is the Fashion Care/Executive Care Tract (hereinafter "Property"), located at 2211 Savoy Drive in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on November 7, 2003 from Business Associates, Inc., a Georgia Corporation to John F. Rowan recorded in Deed Book 15562, Page 660, DeKalb County Records. The area is located in Land Lot 343 of the 18th District of DeKalb County, Georgia. The property currently (2014) consists of approximately 0.61 acres of property developed with a single, one-story building that contains a drycleaner on the west side and restaurant space on the east side. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-343-13-002 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document[s]:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.
- Point of Compliance Monitoring Plan, as Approved by EPD

These documents are available at the following locations:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1054 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq.* by the Trust of John F. Rowan, Sr., its successors and assigns, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the Property. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene, vinyl chloride and 1,1-Dichloroethene have been detected in groundwater beneath the Property. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene and vinyl chloride have been detected in soil beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules",

respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The institutional controls consist of no use of groundwater on the Property, and utility and construction worker protection requirements regarding impacted soil and groundwater in designated areas of the property. Engineering controls required for the Property include (1) maintenance of the concrete/asphalt cover over impacted soil and (2) implementation and maintenance of vapor mitigation measures for any existing enclosed structures on the Property and any future enclosed structures that may be constructed on the Property within the area indicated on attached Figures 1 and 2. These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) and/or EPD vapor risk thresholds commensurate with the use of the Property. Accordingly, this Environmental Covenant imposes such limitations upon the use of the Property.

Grantor, the Trust of John F. Rowan, Sr. (hereinafter "Trust"), hereby binds Grantor, its successors and assigns to the activity and use restriction(s) for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the Trust and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from excising any authority under applicable law.

The Trust makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of the Holder, EPD, Trust and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, the Holder or its successors and assigns, the Trust or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, apply for building permit(s), or propose any subsurface site work in the environmentally impacted areas shown on Figures 1 and 2 that would affect the Property.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant.

4. Periodic Reporting. The Owner shall inspect the property and applicable property instruments at *least annually* to ensure compliance with this document. Annually, by no later than December 31st following the effective date of this Environmental Covenant, the Owner shall submit to EPD an Annual Report as specified in the EPD approved Point of Compliance Monitoring Plan including: groundwater detection-monitoring report results, maintenance and inspection activities, certification of non-residential use of the Property, and documentation stating whether or not the activity and use limitations in this Environmental Covenant are being abided by. Groundwater detection-monitoring requirements may be discontinued in the future by approval of the EPD in accordance with the VRP requirements for the Property; however, the annual Site Use, Activity and Monitoring Form (Exhibit C) shall be completed and submitted to the EPD as long as the UEC is in effect.

   In addition, the annual Site Use, Activity and Monitoring Form shall include the results of a visual inspection of the adjacent Tax Parcel No. 18-333-02-023 for indications of the development or potential development of enclosed structures in the area of groundwater impacts associated with the release of drycleaner impacts from the Property. Should the visual inspection conclude the impacted area of parcel 18-333-02-023 may be developed with an enclosed structure(s) the holder of this UEC shall assess the potential for vapor intrusion with tools/methods approved by the Georgia EPD. Should it be concluded through these tools/methods that the potential risk is above then current Georgia EPD regulatory guidance/thresholds, the owner of the Property shall approach the owner of parcel 18-333-02-023 to mitigate the risk.

5. Activity and Use Limitation(s). The Property shall be used only for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any residential use of the Property shall be prohibited unless soil and groundwater are remediated to residential RRS. A vapor mitigation system or barrier shall be installed and maintained with the construction of any enclosed structures until the HSRA regulated substances in soil and groundwater at the Property reach HSRA RRS and/or EPD vapor risk thresholds are met.

6. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless HSRA regulated substances are treated to below HSRA residential RRS for groundwater.

   Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

7. Soil Limitation. Should intrusive activities within the area designated in Figure 1 as having regulated substances at concentrations greater than HSRA non-residential RRS be required, the extracted, impacted soil should be managed in accordance with all applicable local, state and federal rules and regulations governing the management of such material. Removed soil in this area should not be placed back into the excavation, but be properly characterized for disposal in accordance with 40 CFR Part 261(specifically 40 CFR Parts 261.20-24, regarding characteristic waste) and transported and disposed of at an appropriate disposal facility. The excavation should be backfilled with clean fill material and recapped with an impervious surface. Recapping of the area of excavation is not necessary if all the impacted soil in the excavation area is removed to below applicable HSRA residential RRS to the water table for the regulated chemicals of concern noted in the "Description of Contamination and Corrective Action" above.

8. Utility Worker & Construction Worker Protection. HSRA regulated chemicals have been identified in soil and groundwater above calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and/or utility workers. The following regulated chemicals have been identified in soil above calculated risk-based threshold levels for the protection of construction workers and/or utility workers as indicated: PCE.

   The following regulated chemicals have been identified in groundwater above calculated risk-based threshold levels for the protection of construction workers and/or utility workers: PCE, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene and vinyl chloride. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade.

   The areas with soil or groundwater concentrations above these levels is identified on the attached Figures 1 and 2, respectively. Prior to conducting construction or subsurface utility work that may result in exposure to soil or groundwater in the designated areas, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted soil or groundwater performed in the execution of work should be done in accordance with Items 7 and 6 above, respectively.

9. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

10. Right of Access. In addition to any rights already possessed by EPD and/or the Holder, the Owner shall allow authorized representatives of EPD and/or Holder the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

11. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) Holder, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

12. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq.*

13. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

14. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 11 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1054 East Tower
Atlanta, GA 30334

The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
PO Box 197
Carmel Valley, CA 93924

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act on the 1 day of April, 2014.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK; SIGNATURES APPEAR BEGINNING ON FOLLOWING PAGE]

[ENVIRONMENTAL COVENANT SIGNATURES PAGE]

The Trust of John F. Rowan, Sr.

Catherine Norris, Trustee
Dated: 4/1/14

WITNESS:

By: Keri Arellano
Name: Keri Arellano
Dated: 4-1-88

The Trust of John F. Rowan, Sr.

[Name of Person Acknowledging Receipt]
[Title]
Dated: 4/1/14

WITNESS:

By: Keri Arellano
Name: Keri Arellano
Dated: 4-1-88

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

Judson H. Turner, Director
Dated: 5/27/14

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF California
COUNTY OF Monterey

On this 1 day of April, 2013, I certify that Catherine Norris personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

KERI ARELLANO
Commission # 1911071
Notary Public - California
Monterey County
My Comm. Expires Oct 30, 2014

Keri Arellano
Notary Public in and for the State of ~~Georgia~~ California, residing at Monterey.
My appointment expires: 10-30-14.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF Georgia
COUNTY OF Spalding

On this 27th day of May, 2014, I certify that Judson H. Turner personally appeared before me, acknowledged that he signed this instrument, on oath stated that **he** was authorized to execute this instrument, and acknowledged it as the Director of the Georgia Environmental Protection Division to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

Cristal Sailors
Notary Public in and for the State of Georgia, residing at Spalding.
My appointment expires 1/22/17.

CRISTAL SAILORS
NOTARY
PUBLIC
Exp. Jan. 22, 2017
SPALDING COUNTY, GA

[CORPORATE ACKNOWLEDGMENT]

STATE OF California
COUNTY OF Monterey

On this 1 day of April, 2014, I certify that Catherine Norris personally appeared before me, acknowledged that **he/she** is the representative of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

Keri Arellano
Notary Public in and for the State of
~~Georgia~~ CA, residing at Monterey.
My appointment expires: 10-30-14.

KERI ARELLANO
Commission # 1911071
Notary Public - California
Monterey County
My Comm. Expires Oct 30, 2014

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF California
COUNTY OF Monterey

On this 1 day of April, 2014, I certify that Catherine Norris personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the The trust John F Rowan Sr [type of authority] of Representative [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

Keri Arellano
Notary Public in and for the State of
~~Georgia~~ CA, residing at Monterey.
My appointment expires: 10-30-14.

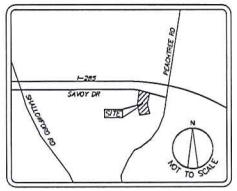
KERI ARELLANO
Commission # 1911071
Notary Public - California
Monterey County
My Comm. Expires Oct 30, 2014

Exhibit A

Legal Description

All that tract or parcel of land lying and being in Land Lot 343 of the 18th District of DeKalb County, Georgia and being more particularly described as follows: Beginning at an iron pin on the westerly line of the right of way of North Peachtree Road (which line is 35 feet westerly from the center line of said road) and on the line dividing Land Lots 343 and 334; and running thence along said Land Lot line South, 89 degrees 53 minutes West, 213 feet to an iron pin; thence North 22 degrees 15 minutes West, 158.85 feet to an iron pin; thence North 15 degrees 11 minutes East, 120 feet to an iron pin on the southerly line of the right of way of I-285; thence South 74 degrees 49 minutes East along the southerly right of way of I-285, 100 feet to an iron pin; thence South 15 degrees 11 minutes West, 990 feet to an iron pin; thence South 23 degrees 25 minutes 30 seconds East, 111.6 feet to an iron pin; thence South 60 degrees 44 minutes East, 60 feet to an iron pin; thence North 89 degrees 53 minutes East, 75 feet to an iron pin on the westerly right of way of North Peachtree Road; thence along said right of way South 9 degrees 17 minutes 30 seconds West, 18 feet to the POINT OF BEGINNING. According to a Plat by Earnest L. Boggus dated June 14, 1968, revised April 10, 1969, revised May 8, 1970. Subject to covenants, easements and restrictions of record and to utility easements.

This is the same property conveyed by Business Associates, Inc. to CJH Capital Corporation by Warranty Deed dated September 21, 1987, recorded in Deed Book 5954, page 189, Clerk's Office, DeKalb County Superior Court.



VICINITY MAP

LEGEND

APPROXIMATE PROPERTY LINE

ASL LIMITED PARTNERSHIP PROPERTY

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

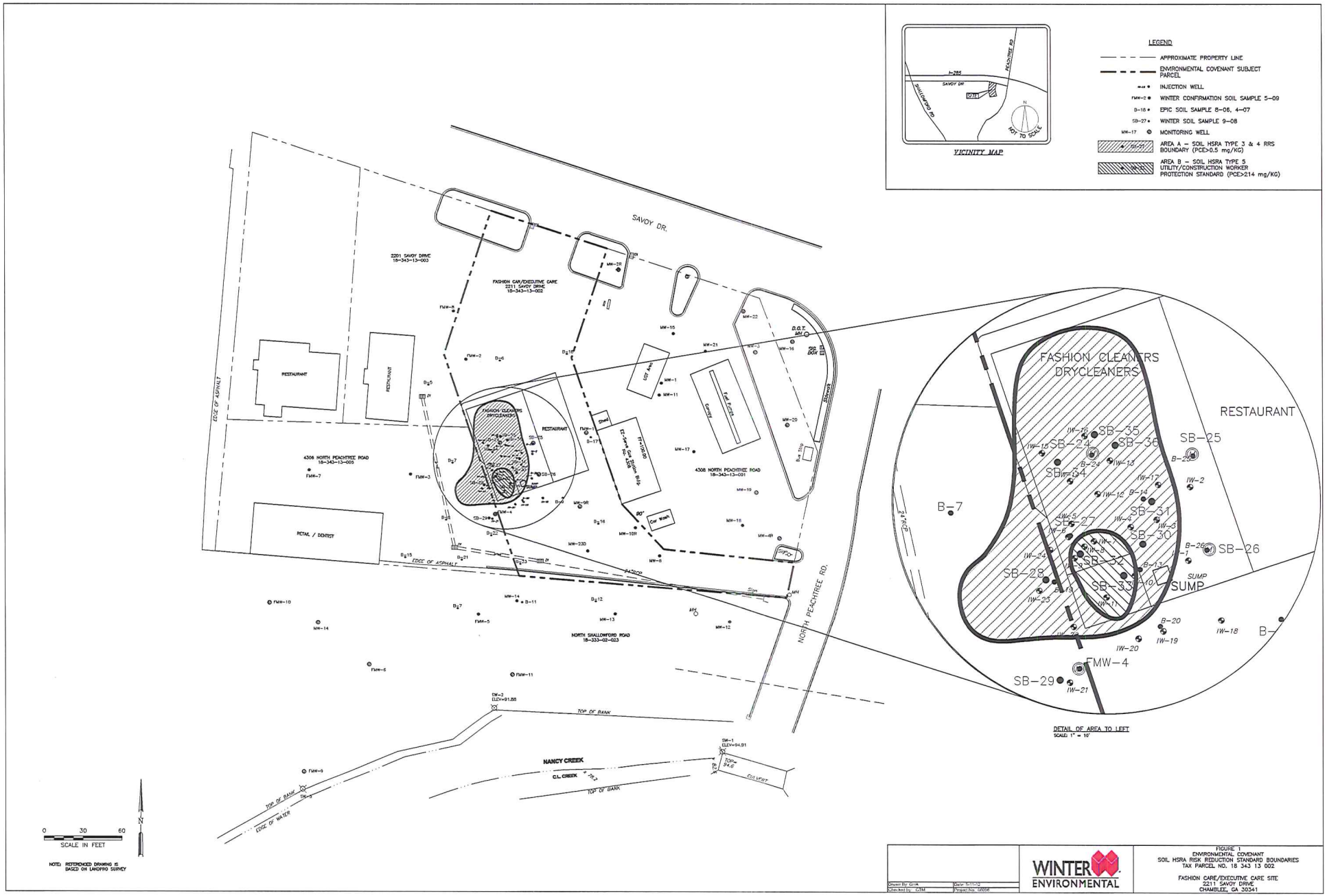
Drawn By: GHA	Date: 6-23-11
Checked by: GTM	Project No: BR096

WINTER ENVIRONMENTAL

EXHIBIT B
AREA MAP

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

DEED BOOK 24410 Pg 668


VICINITY MAP
I-285
SAVOY DR
PEACHTREE RD
SHALLOWFORD RD
NOT TO SCALE
LEGEND
APPROXIMATE PROPERTY LINE
ENVIRONMENTAL COVENANT SUBJECT PARCEL
INJECTION WELL
WINTER CONFIRMATION SOIL SAMPLE 5-09
EPIC SOIL SAMPLE 8-06, 4-07
WINTER SOIL SAMPLE 9-08
MONITORING WELL
AREA A - SOIL HSRA TYPE 3 & 4 RRS BOUNDARY (PCE>0.5 mg/KG)
AREA B - SOIL HSRA TYPE 5 UTILITY/CONSTRUCTION WORKER PROTECTION STANDARD (PCE>214 mg/KG)
SAVOY DR.
NORTH PEACHTREE RD.
NORTH SHALLOWFORD ROAD
NANCY CREEK
TOP OF BANK
EDGE OF WATER
EDGE OF ASPHALT
RESTAURANT
RETAIL / DENTIST
FASHION CLEANERS DRYCLEANERS
FASHION CAR/EXECUTIVE CARE
2201 SAVOY DRIVE
4308 NORTH PEACHTREE ROAD
SCALE IN FEET
NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY
DETAIL OF AREA TO LEFT
SCALE: 1" = 10'
FASHION CLEANERS DRYCLEANERS
RESTAURANT
SUMP
B-7
SB-25
SB-26
SB-27
SB-28
SB-29
SB-30
SB-31
SB-32
SB-33
SB-34
SB-35
SB-36
FMW-4
WINTER ENVIRONMENTAL
FIGURE 1
ENVIRONMENTAL COVENANT
SOIL HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 343 13 002
FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

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VICINITY MAP

LEGEND

- APPROXIMATE PROPERTY LINE
- ENVIRONMENTAL COVENANT SUBJECT PARCEL
- AREA C – HSRA TYPE 1, 3, & 4 RRS BOUNDARY OF CONSTITUENTS OF INTEREST
- AREA D – HSRA TYPE 5 RRS BOUNDARY OF CONSTITUENTS OF INTEREST*
- SD-1 SEDIMENT SAMPLE LOCATION

* ALL WELLS HAD A COMPOUND >TYPE 5 FOR BOTH CONSTRUCTION & UTILITY WORKER NUMBERS

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

0 30 60
SCALE IN FEET

Drawn by: GHA	Date: 5-11-12
Checked by: GJU	Project No: 00000

WINTER ENVIRONMENTAL

FIGURE 2
ENVIRONMENTAL COVENANT
GROUNDWATER HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 343 13 002

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

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DEED BOOK 24410 Pg 671
Debra DeBerry
Clerk of Superior Court
DeKalb County, Georgia

Exhibit C
SITE USE, ACTIVITY, AND MONITORING EVALUATION FORM
Fashion Care/Executive Care Site, Parcel No. 18-343-13-002,
2211 Savoy Drive, Chamblee, DeKalb County, Georgia

TYPE	No.	CRITERIA RESPONSE	YES	NO
Property Use	1	Has the property use changed, has construction work been implemented on the property, or have building permits been applied for?		
	1a	If yes to 1, was EPD notified at least 30 days in advance?		
	1b	If no to 1a, attach a written explanation.		
Exposure	2	Has subsurface site work been conducted in the areas of the property where soil and/or groundwater concentrations exceed residential cleanup standards (UEC - Figure 1 - Areas A and B and Figure 2 - Areas C and D)?		
	2a	If yes to 2, was EPD notified within 3 business days following the site work?		
	2b	Has groundwater extraction or use for non-remedial purposes occurred?		
	2c	If no to 2a or yes to 2b, attach a written explanation, including a description regarding whether the requirements of the uniform environmental covenant (UEC) were adhered to.		
Engineering Controls	3	Is the concrete/asphalt cover intact and of sufficient quality to prevent exposure to soil in the area of the property where soil concentrations exceed residential cleanup standards (UEC – Figure 1 - Areas A and B)?		
	3a	If no to 3, are corrective measures being taken? Notify EPD within 60 days of identification of damaged concrete/asphalt with a plan and schedule to repair. Please attach a written explanation.		
	3b	Have enclosed structures been installed on the property or existing structures modified in such a way as to change potential vapor intrusion assumptions?		
	3c	Is the vapor mitigation system on the existing structure operating consistently and being maintained?		
	3d	• If yes to 3b, have vapor intrusion mitigation measures been implemented? Please attach a written explanation. • If no to 3c, please attach a written explanation.		
Permanent Markers	4	Are the permanent markers that delineate the restricted areas in place and legible?		
	4a	If no to 4, attach a written explanation.		
Property Instruments	5	Do all leases or other property instruments for the site have the applicable UEC and deed notice language inserted into them.		
	5a	If no to 5, attach a written explanation.		
Inspection	6	Date of inspection:		
	6a	Name of inspector:		
	6b	Photographs showing current land use, engineering controls, and permanent markers (attached)		
Inspection Parcel # 18-333-02-023	7	Date of inspection:		
	7a	Name of inspector:		
	7b	Photographs showing current land use(attached).		
	7c	Are there indications of the development or potential development of enclosed structures in the area of groundwater impacts associated with the release of drycleaner impacts from Parcel No. 18-343-13-002? If so, notify EPD within 30 days with a plan to assess the potential for vapor intrusion in such structures.		

Certification:
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME (Please type or print) _____ TITLE _____

SIGNATURE _____ DATE _____

2014082415 DEED BOOK 24410 Pg 672
Filed and Recorded:
6/5/2014 2:52:43 PM
Debra DeBerry
Clerk of Superior Court
DeKalb County, Georgia

After Recording Return to:

Scott E. Hitch, Esq.
Burr & Forman LLP
171 17th Street NW, Suite 1100
Atlanta, Georgia 30363

CROSS-REFERENCE:
Deed Book 3267, Page 130,
DeKalb County Records.

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor:
Southern Automatic Company
Lenbrook
3747 Peachtree Rd. NE, Apt. 1623
Atlanta, Ga. 30319

Grantee/Holder:
The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
PO Box 197
Carmel Valley, Ca 93924

Grantee/Entity with express power to enforce:
State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite ~~1152~~ East Tower
Atlanta, GA 30334
1456

Parties with interest in the Property:

- None at time of execution

Property:

The property subject to this Environmental Covenant is the Southern Automatic Company N. Peachtree Tract (hereinafter "Property"), located at 4306 N. Peachtree Road, in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on November 25, 1974 from Hoke A. Rowan, Jr. to Southern Automatic Company recorded in Deed Book 3267, Page 130, DeKalb County Records. The area is located in Land Lot 343 of the 18th District of DeKalb County, Georgia. The property consists of approximately 0.51 acres of property developed at the time of this covenant with a single, one-story building that contains a dentist office, a beauty shop, and other retail stores. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-343-13-005 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following documents:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.
- Vapor Intrusion Model - Response to EPD Comments dated February 22, 2012 regarding Voluntary Remediation Program Reports submitted through December 2, 2011: VRP Site, Fashion Care/Executive Care, HSI No. 10786, 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, dated March 29, 2012.

These documents are available at the following locations:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite ~~1462~~ 1054 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Office of Rowan Randal K DDS
4306 N Peachtree Rd # B
Chamblee, GA 30341

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act and the Georgia VRP.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by Southern Automatic Company, its successors and assigns, The Trust of John F. Rowan, Sr. (herinafter "Trust"), and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the adjacent property; 2211 Savoy Drive, Chamblee Georgia. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene, vinyl chloride and 1,1-dichloroethene have been detected in groundwater beneath the Property. PCE, trichloroethene and cis-1,2-dichloroethene have been detected in soil beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated there under (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The engineering control required for the Property is the maintenance of existing concrete and asphalt covering soil impacted with regulated chemicals in Area A of Figure 1. The

institutional controls consist of no use of groundwater on the Property, and utility and construction worker protection requirements regarding impacted groundwater on the Property in Area D of Figure 2. These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Grantor, Southern Automatic Company (hereinafter "Southern Automatic"), hereby binds Grantor, its successors and assigns to the activity and use restrictions for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the Trust and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated there under. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from exercising any authority under applicable law.

Southern Automatic makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of the Trust, EPD, Southern Automatic and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, the Trust or its successors and assigns, Southern Automatic or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, or to apply for building permit(s). The EPD must be notified within 3 business days following any subsurface site work in the environmentally impacted areas shown on Figures 1 and 2. These notifications shall include a certification that the requirements of this covenant were adhered to.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant. The notice shall explicitly state the requirements of Activities 5-8 to ensure worker protection and proper handling of impacted media.

4. Periodic Reporting. Annually, beginning no later than 12 months following the effective date of this Environmental Covenant, the Owner shall submit to EPD a completed Site Use, Activity and Monitoring Evaluation Form (~~attached~~). EXHIBIT C

5. Activity and Use Limitation(s). The current use of the Property is non-residential as defined according to Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any future development of the property with enclosed structures, whether residential or non-residential as defined above shall require the following:

   - A vapor mitigation system or barrier be installed and maintained with the construction of any enclosed structures within the impacted soil Area A as indicated on attached Figure 1 and impacted groundwater Area D as indicated on Figure 2, until the HSRA regulated substances in soil and groundwater at the Property reach non-residential HSRA RRS; or vapor modeling of groundwater and/or soil contamination in Areas A and D on Figure 1 and 2, respectively, indicate that vapor mitigation is not required for enclosed structures and EPD concurs with the vapor modeling results; and
   - Groundwater use is prohibited (unless EPD concurs that groundwater is remediated to residential RRS).

6. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless HSRA regulated substances are treated to below HSRA residential RRS for groundwater.

   Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

7. Soil Limitation. The concrete and asphalt covering the area designated as Area A in Figure 1 as having regulated substances at concentrations greater than HSRA non-residential RRS, must be maintained and shall only be breached in accordance with the restrictions herein. Should intrusive activities within the area designated in Figure 1 as having regulated substances at concentrations greater than HSRA non-residential RRS be required, the extracted, impacted soil should be managed in accordance with all applicable local, state and federal rules and regulations governing the management of such material. Soil removed from this area should not be placed back into the excavation, but be properly characterized for disposal in accordance with 40 CFR Part 261(specifically 40 CFR Parts 261.20-24, regarding characteristic waste), and transported and disposed of at an appropriate disposal facility. The excavation should be backfilled with clean fill material and recapped with an impervious surface. Recapping of the area of excavation would not be necessary if all the impacted soil in the excavation area is removed to below applicable HSRA residential RRS to the water table for the regulated chemicals of concern noted in the "Description of Contamination and Corrective Action" above.

8. Utility Worker & Construction Worker Protection. Levels of the following HSRA regulated chemicals have been identified in groundwater above calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and/or utility workers as indicated:

HSRA regulated chemical	Construction Worker Threshold Concentration (mg/L)	Utility Worker Threshold Concentration (mg/L)	Comments
PCE	0.12	0.82	
Trichloroethene	0.006	0.041	
Cis-1,2-dichloroethene	2.6	18.0	This chemical was identified above the construction worker threshold only.

The area with chemical concentrations in groundwater above Type 5 RRS levels is identified as Area D on attached Figure 2. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade. Prior to conducting construction or subsurface utility work that may result in exposure to groundwater in the designated area, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted groundwater performed in the execution of work should be done in accordance with Item 6 above.

The exposure duration assumed for a utility worker was 35 days per year, for a period of 25 years. The exposure duration assumed for a construction worker was 250 days a year, for a period of no more than one year. Therefore, utility worker exposure in the areas that meet Type 5 RRS, but exceed Type 1-4 RRS, Area A in Figure 1 and Area C in Figure 2; should not exceed 35 days per year for 25 years, and for construction workers should not to exceed 250 days in a year. If on site works in the areas designated above are to be exceeded, then the procedures outlined above must be followed to eliminate the work exposure pathway.

9. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

10. Right of Access. In addition to any rights already possessed by EPD and/ Trust, the Owner shall allow authorized representatives of EPD and/or the Trust the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

11. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) the Trust, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

12. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

13. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

14. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

RepresentationsandWarranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 11 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

- Georgia Environmental Protection Division, Branch Chief, Land Protection Branch, 2 Martin Luther King Jr. Drive SE Suite 1~~7~~9 54 East Tower, Atlanta, GA 30334.

- Southern Automatic Company, Lenbrook, 3747 Peachtree Rd. NE, Apt. 1623, Atlanta, GA 30319.

- The Trust of John F. Rowan, Sr., Attn. Mrs. Catherine Norris, Representative, PO Box 197, Carmel Valley, Ca 93924

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the 24 day of July, 2012.

Southern Automatic Company

Hoke A Rowan Jr
PRESIDENT
[Name of Signatory]
[Title]

Dated: 24-7-12

The Trust of John F. Rowan, Sr.

[Name of Person Acknowledging Receipt]
[Title]

Dated: 8/1/12

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

Judson H. Turner
[Name of Person Acknowledging Receipt]
[Title]

Dated: 5/27/14

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF Georgia
COUNTY OF Spalding

On this 27th day of May, 2014, I certify that Judson H. Turner personally appeared before me, acknowledged that **he** signed this instrument, on oath stated that **he** was authorized to execute this instrument, and acknowledged it as the Director of the Georgia Environmental Protection Division to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

CRISTAL SAILORS NOTARY PUBLIC Exp. Jan. 22, 2017 SPALDING COUNTY, GA

Cristal Sailors
Notary Public in and for the State of Georgia, residing at Spalding.
My appointment expires 1/22/17.

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF Georgia
COUNTY OF FULTON

On this 24th day of July, 2012, I certify that Hoke Rowan personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

REBECCA JARRELL MY COMMISSION EXPIRES NOTARY PUBLIC JULY 14, 2014 FULTON COUNTY, GEORGIA

Rebecca Jarrell
Notary Public in and for the State of Georgia, residing at 5385 Peachtree Dunwoody Rd.
My appointment expires 7-14-2014

[CORPORATE ACKNOWLEDGMENT]

STATE OF Georgia
COUNTY OF FULTON

On this 24th day of July, 2012, I certify that Hoke Rowan personally appeared before me, acknowledged that **he/she** is the President of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

REBECCA JARRELL MY COMMISSION EXPIRES NOTARY PUBLIC JULY 14, 2014 FULTON COUNTY, GEORGIA

Rebecca Jarrell
Notary Public in and for the State of Georgia, residing at 5385 Peachtree Dunwoody Rd.
My appointment expires 7-14-2014

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF Calif.
COUNTY OF Monterey

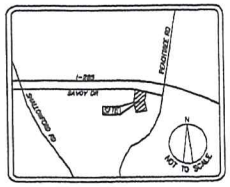
On this 1ST day of August, 2012, I certify that Catherine Norris personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the Representative [type of authority] of The Trust of John F. Rowan Sr. [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

SUE PECCIANTI
Commission # 1865060
Notary Public - California
Monterey County
My Comm. Expires Oct 14, 2013

Sue Peccianti
Notary Public in and for the State of California ~~Georgia~~, residing at Carmel, Calif.
My appointment expires 10/14/13.

Exhibit A Legal
Description

Beginning at an iron pin on the south line of Land Lot 343, said point being south 89 degrees 53 minutes west 213.00 feet from the westerly right of way of North Peachtree Road, (70' R/W), thence south 89 degrees 53 minutes west 225.00 feet along the south line of Land Lot 343 to an iron pin, thence north 0 degrees 7 minutes west 316.8 feet to an iron pin on the southerly right of way of I-285, thence south 74 degrees 49 minutes east along the southerly right of way of I-285, 203.9 feet to an iron pin, thence south 15 degrees 11 minutes west 120.0 feet to a masonry nail, thence south 22 degrees 15 minutes east to the south line of Land Lot 343 and the point of beginning.



VICINITY MAP

LEGEND

APPROXIMATE PROPERTY LINE

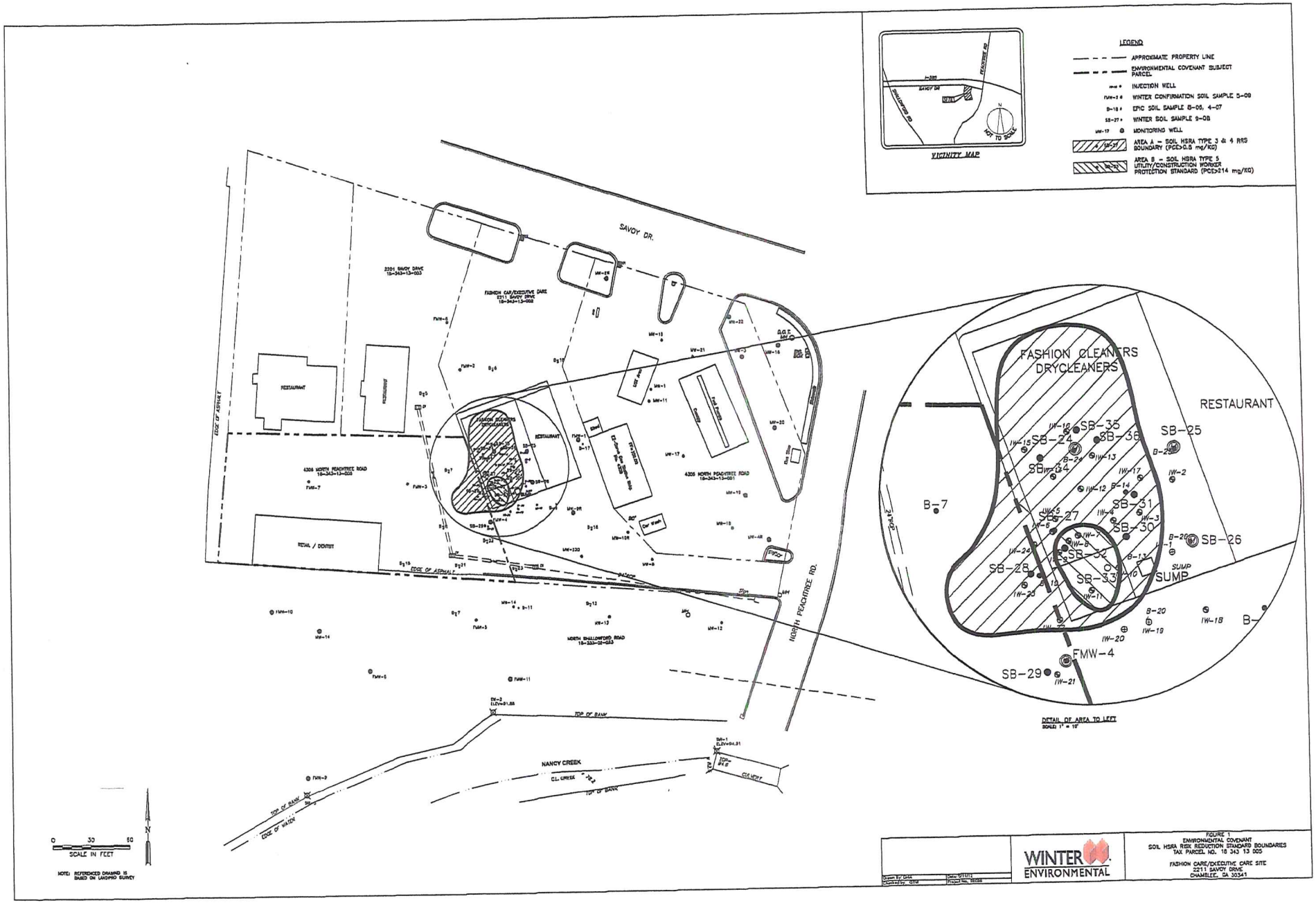
ASL LIMITED PARTNERSHIP PROPERTY

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

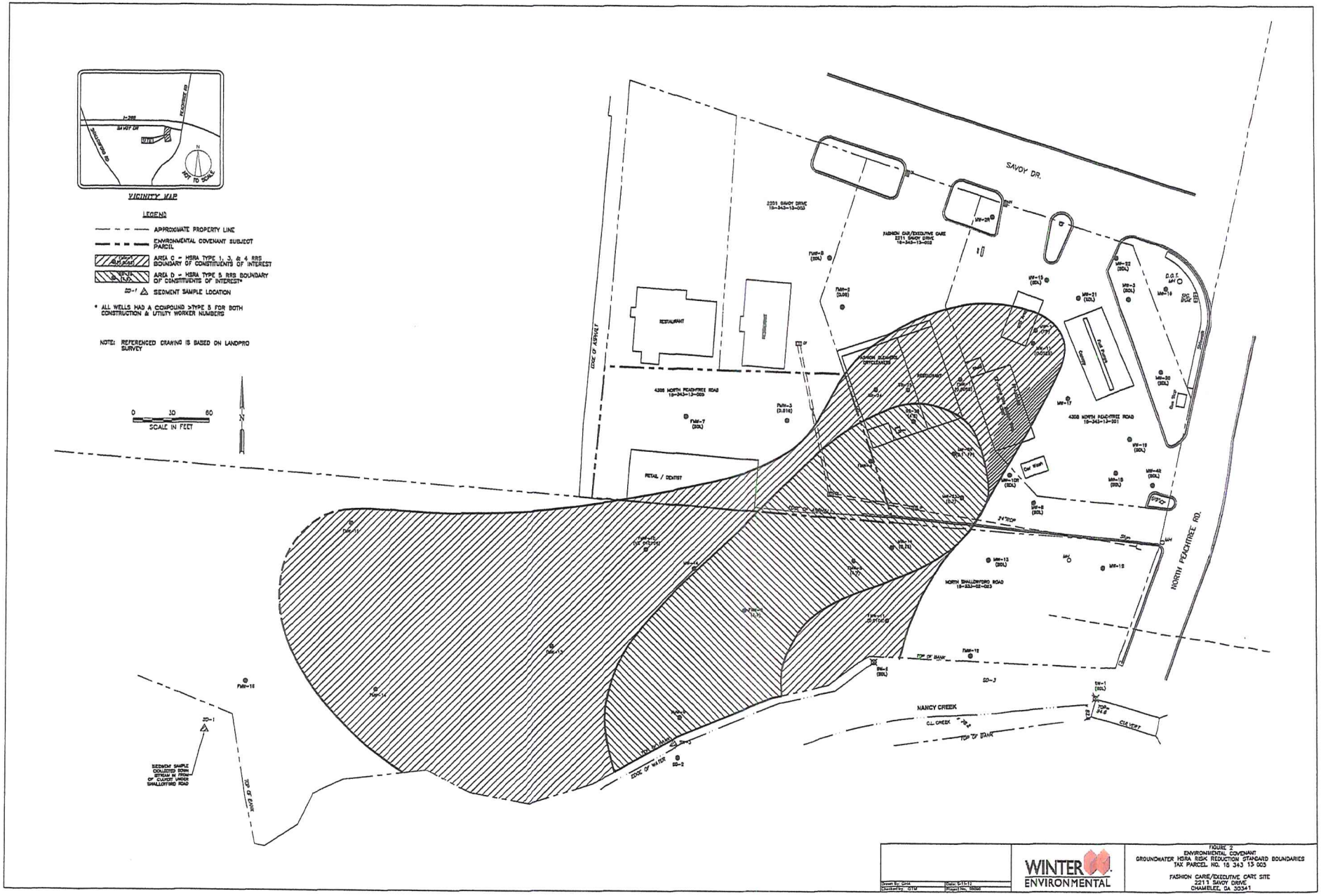
Drawn By: GHA Checked by: GTM	Date: 8-23-11 Project No. 00004	WINTER ENVIRONMENTAL

EXHIBIT B
AREA MAP

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341


VICINITY MAP
NOT TO SCALE
LEGEND
APPROXIMATE PROPERTY LINE
ENVIRONMENTAL COVENANT SUBJECT PARCEL
INJECTION WELL
WINTER CONFIRMATION SOIL SAMPLE 5-08
EPIC SOIL SAMPLE 6-05, 4-07
WINTER SOIL SAMPLE 9-08
MONITORING WELL
AREA A – SOIL HSRA TYPE 3 & 4 RRS BOUNDARY (PCE>0.5 mg/Kg)
AREA B – SOIL HSRA TYPE 5 UTILITY/CONSTRUCTION WORKER PROTECTION STANDARD (PCE>214 mg/Kg)
SAVOY DR.
NORTH PEACHTREE RD.
NANCY CREEK
FASHION CLEANERS DRYCLEANERS
RESTAURANT
SUMP
FMW-4
DETAIL OF AREA TO LEFT
SCALE 1" = 10'
SCALE IN FEET
NOTE: REFERENCED DRAWING IS BASED ON LANDMO SURVEY
WINTER ENVIRONMENTAL
FIGURE 1
ENVIRONMENTAL COVENANT
SOIL HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 343 13 005
FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

12


VICINITY MAP
LEGEND
APPROXIMATE PROPERTY LINE
ENVIRONMENTAL COVENANT SUBJECT PARCEL
AREA C - HSRA TYPE 1, 3, & 4 RRS BOUNDARY OF CONSTITUENTS OF INTEREST
AREA D - HSRA TYPE 5 RRS BOUNDARY OF CONSTITUENTS OF INTEREST*
SD-1 SEDIMENT SAMPLE LOCATION
* ALL WELLS HAD A COMPOUND >TYPE 5 FOR BOTH CONSTRUCTION & UTILITY WORKER NUMBERS
NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY
0 30 60
SCALE IN FEET
N
SAVOY DR.
NORTH PEACHTREE RD.
NANCY CREEK
RESTAURANT
RETAIL / DENTIST
NORTH SHALLOWFORD ROAD
EDGE OF ASPHALT
EDGE OF WATER
TOP OF BANK
SEDIMENT SAMPLE COLLECTED FROM STREAM OR FROM OF CULVERT UNDER SHALLOWFORD ROAD
WINTER ENVIRONMENTAL
FIGURE 2
ENVIRONMENTAL COVENANT
GROUNDWATER HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 343 13 003
FASHION CARE/EXECUTIVE CART SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

DEED BOOK 24410 Pg 685
Debra DeBerry
Clerk of Superior Court
DeKalb County, Georgia

Exhibit C
SITE USE, ACTIVITY, AND MONITORING EVALUATION FORM

Fashion Care/Executive Care Site, Parcel No. 18-343-13-005,
4306 N. Peachtree Road, Chamblee, DeKalb County, Georgia

TYPE	No.	CRITERIA RESPONSE	YES	NO
Property Use	1	Has the property use changed, has construction work been implemented on the property, or have building permits been applied for?		
	1a	If yes to 1, was EPD notified at least 30 days in advance?		
	1b	If no to 1a, attach a written explanation.		
Exposure	2	Has subsurface site work been conducted in the areas of the property where soil and/or groundwater concentrations exceed residential cleanup standards (UEC - Figure 1 - Area A and Figure 2 - Areas C and D)?		
	2a	If yes to 2, was EPD notified within 3 business days following the site work?		
	2b	Has groundwater extraction or use for non-remedial purposes occurred?		
	2c	If no to 2a or yes to 2b, attach a written explanation, including a description regarding whether the requirements of the uniform environmental covenant (UEC) were adhered to.		
Engineering Controls	3	Is the concrete/asphalt cover intact and of sufficient quality to prevent exposure to soil in the area of the property where soil concentrations exceed residential cleanup standards (UEC – Figure 1 - Area A)?		
	3a	If no to 3, are corrective measures being taken? Please attach a written explanation.		
	3b	Have enclosed structures been installed on the property or existing structures modified in such a way as to change potential vapor intrusion assumptions?		
	3c	If yes to 3b, have vapor intrusion mitigation measures been implemented? Please attach a written explanation		
Permanent Markers	4	Are the permanent markers that delineate the restricted areas in place and legible?		
	4a	If no to 4, attach a written explanation.		
Property Instruments	5	Do all leases or other property instruments for the site have the applicable UEC and deed notice language inserted into them.		
	5a	If no to 5, attach a written explanation.		
Inspection	6	Date of inspection:		
	6a	Name of inspector:		
	6b	Photographs showing current land use, engineering controls, and permanent markers (attached)		

Certification:
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_____ _____
NAME (Please type or print) TITLE

_____ _____
SIGNATURE DATE

Annette Miller

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Delivery Date / Time: 09-April-2014 / 10:02 AM
Adult Signature Captured

Delivery Location: FRONT DESK
Signed by: TRICE

Shipment Detail

Ship To:
Emmie Niethammer
City of Chamblee
5468 PEACHTREE RD
ATLANTA
GA
30341
US

Number of Packages: 1
UPS Service: 2ND DAY AIR
Weight: 0.8 LBS
Reference Number 1: 226203.00
Reference Number 2: N

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Delivery Date / Time: 09-April-2014 / 9:43 AM
Adult Signature Captured

Delivery Location: OFFICE
Signed by: ANDERSON

Shipment Detail

Ship To:
Lee May, Interim CEO
DeKalb County
1300 COMMERCE DR
ROOM 6
DECATUR
GA
30030
US

Number of Packages: 1
UPS Service: 2ND DAY AIR
Weight: 0.8 LBS
Reference Number 1: 226203.00
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Tracking Number: 1Z149E4XA690047731
Delivery Date / Time: 09-April-2014 / 10:44 AM
Adult Signature Captured

Delivery Location: MAIL ROOM
Signed by: STRAXA

Shipment Detail

Ship To:
C/O R. Bradley Carr, Reg'd Agent
GA-AL Commerical Investments, LLC
1960 SATELLITE BLVD
ROOM 4000
DULUTH
GA
30097
US

Number of Packages: 1
UPS Service: 2ND DAY AIR
Weight: 0.5 LBS
Reference Number 1: 226203.00
Reference Number 2: N

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Tracking Number: 1Z149E4XA691646805
Delivery Date / Time: 09-April-2014 / 11:36 AM
Adult Signature Captured

Delivery Location: FRONT DESK
Signed by: BUCANNON

Shipment Detail

Ship To:
Owner c/o Facility Manager
Gardner Chiropractic & Rehab C
4306 N PEACHTREE RD
ATLANTA
GA
30341
US

Number of Packages: 1
UPS Service: 2ND DAY AIR
Weight: 0.6 LBS
Reference Number 1: 226203.00
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Important Delivery Information

Tracking Number: 1Z149E4XA693670785
Delivery Date / Time: 09-April-2014 / 11:40 AM
Adult Signature Captured

Delivery Location: FRONT DESK
Signed by: THORNE

Shipment Detail

Ship To:
Randal Rowan, DDS
4306 N PEACHTREE RD
ROOM B
ATLANTA
GA
30341
US

Number of Packages: 1
UPS Service: 2ND DAY AIR
Weight: 0.6 LBS
Reference Number 1: 226203.00
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To: Annette Miller
Subject: UPS Delivery Notification, Tracking Number 1Z149E4XA691152320

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Important Delivery Information

Tracking Number: 1Z149E4XA691152320
Delivery Date / Time: 09-April-2014 / 3:36 PM
Adult Signature Captured

Delivery Location: RESIDENTIAL
Signed by: LUCKY

Shipment Detail

Ship To:
Owner c/o Facility Manager
Southern Automatic Company
3747 PEACHTREE RD NE
ATLANTA
GA
30319
US

Number of Packages: 1
UPS Service: 2ND DAY AIR
Weight: 0.6 LBS
Reference Number 1: 226203.00
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Tracking Number: 1Z149E4XA694251548
Delivery Date / Time: 10-April-2014 / 10:49 AM
Adult Signature Captured

Delivery Location: OFFICE
Signed by: LOOR

Shipment Detail

Ship To:
Owner c/o Facility Manager
ASL Limited Partnership
1515 S FEDERAL HWY
ROOM 300
BOCA RATON
FL
33432
US

Number of Packages: 1
UPS Service: 2ND DAY AIR
Weight: 0.8 LBS
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Reference Number 2: N

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Tracking Number: 1Z149E4XA693673371
Delivery Date / Time: 10-April-2014 / 1:18 PM
Adult Signature Captured

Delivery Location: RECEIVER
Signed by: LH

Shipment Detail

Ship To:
Owner c/o Facility Manager
Fair Lanes North Atl Prop, Inc.
7313 BELL CREEK RD
MECHANICSVILLE
VA
23111
US

Number of Packages: 1
UPS Service: 2ND DAY AIR
Weight: 0.6 LBS
Reference Number 1: 226203.00
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To: Annette Miller
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Tracking Number: 1Z149E4XA699525314
Delivery Date / Time: 10-April-2014 / 11:54 AM
Adult Signature Captured

Delivery Location: FRONT DESK
Signed by: BUCANNON

Shipment Detail

Ship To:
Owner c/o Facility Manager
Hair Cut Zoo
4306 N PEACHTREE RD
ATLANTA
GA
30341
US

Number of Packages: 1
UPS Service: 2ND DAY AIR
Weight: 0.6 LBS
Reference Number 1: 226203.00
Reference Number 2: N

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To: Annette Miller
Subject: UPS Delivery Notification, Tracking Number 1Z149E4XA698430481

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Important Delivery Information

Tracking Number: 1Z149E4XA698430481
Delivery Date / Time: 10-April-2014 / 12:00 PM
Adult Signature Captured

Delivery Location: FRONT DESK
Signed by: KWARK

Shipment Detail

Ship To:
Owner c/o Facility Manager
Moon Ho Kwark
2211 SAVOY DR
ATLANTA
GA
30341
US

Number of Packages: 1
UPS Service: 2ND DAY AIR
Weight: 0.6 LBS
Reference Number 1: 226203.00
Reference Number 2: N

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To: Annette Miller
Subject: UPS Delivery Notification, Tracking Number 1Z149E4XA697579092

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Important Delivery Information

Tracking Number: 1Z149E4XA697579092
Delivery Date / Time: 10-April-2014 / 11:53 AM
Adult Signature Captured

Delivery Location: FRONT DESK
Signed by: WHITEHEAD

Shipment Detail

Ship To:
Owner c/o Facility Manager
The Mad Italian
2197 SAVOY DR
ATLANTA
GA
30341
US

Number of Packages: 1
UPS Service: 2ND DAY AIR
Weight: 0.6 LBS
Reference Number 1: 226203.00
Reference Number 2: N

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Contact UPS

Annette Miller

From: UPS Quantum View <auto-notify@ups.com>
Sent: Thursday, April 10, 2014 12:14 PM
To: Annette Miller
Subject: UPS Delivery Notification, Tracking Number 1Z149E4XA696310702

UPS My Choice® can help you avoid missed home deliveries.

Learn More

***Do not reply to this e-mail. UPS and Woodard & Curran will not receive your reply.

At the request of Woodard & Curran, this notice is to confirm that the following shipment has been delivered.

Important Delivery Information

Tracking Number: 1Z149E4XA696310702
Delivery Date / Time: 10-April-2014 / 11:59 AM
Adult Signature Captured

Delivery Location: FRONT DESK
Signed by: HEHTAH

Shipment Detail

Ship To:
Owner c/o Facility Manager
Wild Ginger Thai Cuisine
2201 SAVOY DR
ATLANTA
GA
30341
US

Number of Packages: 1
UPS Service: 2ND DAY AIR
Weight: 0.6 LBS
Reference Number 1: 226203.00
Reference Number 2: N

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Contact UPS

Annette Miller

From: UPS Quantum View <auto-notify@ups.com>
Sent: Tuesday, April 15, 2014 6:03 PM
To: Annette Miller
Subject: UPS Delivery Notification, Tracking Number 1Z149E4XA698964879

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Learn More

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At the request of Woodard & Curran, this notice is to confirm that the following shipment has been delivered.

Important Delivery Information

Tracking Number: 1Z149E4XA698964879
Delivery Date / Time: 15-April-2014 / 2:36 PM
Adult Signature Captured

Delivery Location: RESIDENTIAL
Signed by: NORRIS

Shipment Detail

Ship To:
Catherine Norris
Trust of John Rowan, Sr
224 VISTA VERDE
CARMEL VALLEY
CA
93924
US

Number of Packages: 1
UPS Service: 2ND DAY AIR
Weight: 0.6 LBS
Reference Number 1: 226203.00
Reference Number 2: N

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Contact UPS

Len Diprima

From: trackingupdates@fedex.com
Sent: Friday, June 27, 2014 10:29 AM
To: Annette Miller
Subject: FedEx Shipment 770416504862 Delivered

fedex.com | Ship | Track | Manage | Learn | Office/Print Services

Your package has been delivered

Tracking # 770416504862

Ship (P/U) date:
Wednesday, 6/25/14

Annette Miller
Woodard & Curran
Duluth, GA 30097
US

Delivered

Delivery date:
Friday, 6/27/14 10:25 AM

Land Property Manager
ASL Limited Partnership
1515 S. Federal Hwy 300
BOCA RATON, FL 33432
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	770416504862
Status:	Delivered: 06/27/2014 10:25 AM Signed for By: M.GARCIA
Reference:	226203.00.001.0004
Signed for by:	M.GARCIA

Delivery location:	BOCA RATON, FL
Delivered to:	Receptionist/Front Desk
Service type:	FedEx 2Day
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	0.50 lb.
Special handling/Services:	Adult Signature Required
	Deliver Weekday

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 9:29 AM CDT on 06/27/2014.

To learn more about FedEx Express, please go to fedex.com.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above, or go to fedex.com.

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Thank you for your business.

Len Diprima

From: trackingupdates@fedex.com
Sent: Thursday, June 26, 2014 2:18 PM
To: Annette Miller
Subject: FedEx Shipment 770416461097 Delivered

fedex.com | Ship | Track | Manage | Learn | Office/Print Services

Your package has been delivered

Tracking # 770416461097

Ship (P/U) date:
Wednesday, 6/25/14

Annette Miller
Woodard & Curran
Duluth, GA 30097
US

Delivered

Delivery date:
Thursday, 6/26/14 2:14 PM

Emmie Niethammer
City of Chamblee
5468 Peachtree Road
CHAMBLEE, GA 30341
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	770416461097
Status:	Delivered: 06/26/2014 2:14 PM Signed for By: M.HOPPER
Reference:	226203.00.001.0004
Signed for by:	M.HOPPER
Delivery location:	CHAMBLEE, GA

Delivered to:	Receptionist/Front Desk
Service type:	FedEx 2Day
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	0.50 lb.
Special handling/Services:	Adult Signature Required
	Deliver Weekday

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Thank you for your business.

Len Diprima

From: trackingupdates@fedex.com
Sent: Friday, June 27, 2014 1:45 PM
To: Annette Miller
Subject: FedEx Shipment 770416430948 Delivered

fedex.com | Ship | Track | Manage | Learn | Office/Print Services

Your package has been delivered

Tracking # 770416430948

Ship (P/U) date:
Wednesday, 6/25/14

Annette Miller
Woodard & Curran
Duluth, GA 30097
US

Delivered

Delivery date:
Friday, 6/27/14 1:41 PM

Lee May
DeKalb County
1300 Commerce Dr, 6th Floor Manuel J. Maloof Center
DECATUR, GA 30030
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	770416430948
Status:	Delivered: 06/27/2014 1:41 PM Signed for By: .SHAMITTA
Reference:	226203.00.001.0004

Signed for by:	.SHAMITTA
Delivery location:	DECATUR, GA
Delivered to:	Receptionist/Front Desk
Service type:	FedEx 2Day
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	0.50 lb.
Special handling/Services:	Adult Signature Required
	Deliver Weekday

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 12:45 PM CDT on 06/27/2014.

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Thank you for your business.

Len Diprima

From: trackingupdates@fedex.com
Sent: Friday, June 27, 2014 2:45 PM
To: Annette Miller
Subject: FedEx Shipment 770416394063 Delivered

fedex.com | Ship | Track | Manage | Learn | Office/Print Services

Your package has been delivered

Tracking # 770416394063

Ship (P/U) date:
Wednesday, 6/25/14

Annette Miller
Woodard & Curran
Duluth, GA 30097
US

Delivered

Delivery date:
Friday, 6/27/14 2:42 PM

Property Manager
Fair Lanes North Atlanta Property
7313 Bell Creek Road
MECHANICSVILLE, VA 23111
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	770416394063
Status:	Delivered: 06/27/2014 2:42 PM Signed for By: M.CERSEY
Reference:	226203.00.001.0004

Signed for by:	M.CERSEY
Delivery location:	MECHANICSVILLE, VA
Delivered to:	Mailroom
Service type:	FedEx 2Day
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	0.50 lb.
Special handling/Services:	Adult Signature Required
	Deliver Weekday

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Thank you for your business.

Len Diprima

From: trackingupdates@fedex.com
Sent: Thursday, June 26, 2014 10:59 AM
To: Annette Miller
Subject: FedEx Shipment 770416356670 Delivered

fedex.com | Ship | Track | Manage | Learn | Office/Print Services

Your package has been delivered

Tracking # 770416356670

Ship (P/U) date:
Wednesday, 6/25/14

Annette Miller
Woodard & Curran
Duluth, GA 30097
US

Delivered

Delivery date:
Thursday, 6/26/14 10:53 AM

R. Bradley Carr, Registered Agent
GA-AL Commercial Investments, LLC
1960 Satellite Blvd, Suite 400 One Sugarloaf Centre
DULUTH, GA 30097
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	770416356670
Status:	Delivered: 06/26/2014 10:53 AM Signed for By: P.MERROW

Reference:	226203.00.001.0004
Signed for by:	P.MERROW
Delivery location:	DULUTH, GA
Delivered to:	Receptionist/Front Desk
Service type:	FedEx 2Day
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	0.50 lb.
Special handling/Services:	Adult Signature Required
	Deliver Weekday

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All weights are estimated.

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Thank you for your business.

Len Diprima

From: trackingupdates@fedex.com
Sent: Thursday, June 26, 2014 2:10 PM
To: Annette Miller
Subject: FedEx Shipment 770416705853 Delivered

fedex.com | Ship | Track | Manage | Learn | Office/Print Services

Your package has been delivered

Tracking # 770416705853

Ship (P/U) date:
Wednesday, 6/25/14

Annette Miller
Woodard & Curran
Duluth, GA 30097
US

Delivered

Delivery date:
Thursday, 6/26/14 2:06 PM

Office Manager
Gardner Chiropractic & Rehab
4306-A N. Peachtree Road
CHAMBLEE, GA 30341
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	770416705853
Status:	Delivered: 06/26/2014 2:06 PM Signed for By: C.BUCHANAN
Reference:	226203.00.001.0004

Signed for by:	C.BUCHANAN
Delivery location:	CHAMBLEE, GA
Delivered to:	Receptionist/Front Desk
Service type:	FedEx 2Day
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	0.50 lb.
Special handling/Services:	Adult Signature Required
	Deliver Weekday

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 1:09 PM CDT on 06/26/2014.

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All weights are estimated.

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Thank you for your business.

Len Diprima

From: trackingupdates@fedex.com
Sent: Thursday, June 26, 2014 2:07 PM
To: Annette Miller
Subject: FedEx Shipment 770416302772 Delivered

fedex.com | Ship | Track | Manage | Learn | Office/Print Services

Your package has been delivered

Tracking # 770416302772

Ship (P/U) date:
Wednesday, 6/25/14

Annette Miller
Woodard & Curran
Duluth, GA 30097
US

Delivered

Delivery date:
Thursday, 6/26/14 2:04 PM

Manager
Hair Cut Zoo
4306-C N Peachtree Road
CHAMBLEE, GA 30341
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	770416302772
Status:	Delivered: 06/26/2014 2:04 PM Signed for By: D.JENKINS
Reference:	226203.00.001.0004
Signed for by:	D.JENKINS

Delivery location:	CHAMBLEE, GA
Delivered to:	Receptionist/Front Desk
Service type:	FedEx 2Day
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	0.50 lb.
Special handling/Services:	Adult Signature Required
	Deliver Weekday

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 1:06 PM CDT on 06/26/2014.

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All weights are estimated.

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Thank you for your business.

Len Diprima

From: trackingupdates@fedex.com
Sent: Thursday, June 26, 2014 2:15 PM
To: Annette Miller
Subject: FedEx Shipment 770416221709 Delivered

fedex.com | Ship | Track | Manage | Learn | Office/Print Services

Your package has been delivered

Tracking # 770416221709

Ship (P/U) date:
Wednesday, 6/25/14

Annette Miller
Woodard & Curran
Duluth, GA 30097
US

Delivered

Delivery date:
Thursday, 6/26/14 2:13 PM

Manager
Moon Ho Kwark
2211 Savoy Dr
CHAMBLEE, GA 30341
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	770416221709
Status:	Delivered: 06/26/2014 2:13 PM Signed for By: A.YOUNG
Reference:	226203.00.001.0004
Signed for by:	A.YOUNG
Delivery location:	CHAMBLEE, GA

Delivered to:	Receptionist/Front Desk
Service type:	FedEx 2Day
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	0.50 lb.
Special handling/Services:	Adult Signature Required
	Deliver Weekday

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Thank you for your business.

Len Diprima

From: trackingupdates@fedex.com
Sent: Thursday, June 26, 2014 1:49 PM
To: Annette Miller
Subject: FedEx Shipment 770416258257 Delivered

fedex.com | Ship | Track | Manage | Learn | Office/Print Services

Your package has been delivered

Tracking # 770416258257

Ship (P/U) date:
Wednesday, 6/25/14

Annette Miller
Woodard & Curran
Duluth, GA 30097
US

Delivered

Delivery date:
Thursday, 6/26/14 1:44 PM

Property Manager
The Mad Italian
2197 Savoy Drive
ATLANTA, GA 30341
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	770416258257
Status:	Delivered: 06/26/2014 1:44 PM Signed for By: R.CLAIRMONT
Reference:	226203.00.001.0004
Signed for by:	R.CLAIRMONT
Delivery location:	ATLANTA, GA

Delivered to:	Receptionist/Front Desk
Service type:	FedEx 2Day
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	0.50 lb.
Special handling/Services:	Adult Signature Required
	Deliver Weekday

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Thank you for your business.

Len Diprima

From: trackingupdates@fedex.com
Sent: Thursday, June 26, 2014 2:08 PM
To: Annette Miller
Subject: FedEx Shipment 770416186574 Delivered

fedex.com | Ship | Track | Manage | Learn | Office/Print Services

Your package has been delivered

Tracking # 770416186574

Ship (P/U) date:
Wednesday, 6/25/14

Annette Miller
Woodard & Curran
Duluth, GA 30097
US

Delivered

Delivery date:
Thursday, 6/26/14 2:05 PM

Randal Rowan, DDS
4306-B N Peachtree Rd
CHAMBLEE, GA 30341
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	770416186574
Status:	Delivered: 06/26/2014 2:05 PM Signed for By: T.THOMAS
Reference:	226203.00.001.0004
Signed for by:	T.THOMAS
Delivery location:	CHAMBLEE, GA

Delivered to:	Receptionist/Front Desk
Service type:	FedEx 2Day
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	0.50 lb.
Special handling/Services:	Adult Signature Required
	Deliver Weekday

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 1:08 PM CDT on 06/26/2014.

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Thank you for your business.

Len Diprima

From: trackingupdates@fedex.com
Sent: Friday, June 27, 2014 1:19 PM
To: Annette Miller
Subject: FedEx Shipment 770416064658 Delivered

fedex.com | Ship | Track | Manage | Learn | Office/Print Services

Your package has been delivered

Tracking # 770416064658

Ship (P/U) date:
Wednesday, 6/25/14

Annette Miller
Woodard & Curran
Duluth, GA 30097
US

Delivered

Delivery date:
Friday, 6/27/14 10:13 AM

Catherine Norris
The Trust of John F. Rowan, Sr.
224 Vista Verda
CARMEL VALLEY, CA 93924
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	770416064658
Status:	Delivered: 06/27/2014 10:13 AM Signed for By: P.NORRIS
Reference:	226203.00.001.0004

Signed for by:	P.NORRIS
Delivery location:	CARMEL VALLEY, CA
Delivered to:	Residence
Service type:	FedEx 2Day
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	0.50 lb.
Special handling/Services:	Adult Signature Required
	Deliver Weekday
	Residential Delivery

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All weights are estimated.

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Thank you for your business.

Len Diprima

From: trackingupdates@fedex.com
Sent: Thursday, June 26, 2014 9:59 AM
To: Annette Miller
Subject: FedEx Shipment 770416019655 Delivered

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Your package has been delivered

Tracking # 770416019655

Ship (P/U) date:
Wednesday, 6/25/14

Annette Miller
Woodard & Curran
Duluth, GA 30097
US

Delivered

Delivery date:
Thursday, 6/26/14 9:55 AM

Property Manager
Southern Automatic Company
3747 Peachtree Road NE, Apt 1623
ATLANTA, GA 30319
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	770416019655
Status:	Delivered: 06/26/2014 09:55 AM Signed for By: B.LUCKETT
Reference:	226203.00.001.0004

Signed for by:	B.LUCKETT
Delivery location:	ATLANTA, GA
Delivered to:	Residence
Service type:	FedEx 2Day
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	0.50 lb.
Special handling/Services:	Adult Signature Required
	Deliver Weekday
	Residential Delivery

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Thank you for your business.

Len Diprima

From: trackingupdates@fedex.com
Sent: Thursday, June 26, 2014 1:49 PM
To: Annette Miller
Subject: FedEx Shipment 770415980240 Delivered

fedex.com | Ship | Track | Manage | Learn | Office/Print Services

Your package has been delivered

Tracking # 770415980240

Ship (P/U) date:
Wednesday, 6/25/14

Annette Miller
Woodard & Curran
Duluth, GA 30097
US

Delivered

Delivery date:
Thursday, 6/26/14 1:43 PM

Store Manager
Wild Ginger Thai Cuisine
2201 Savory Drive
ATLANTA, GA 30341
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	770415980240
Status:	Delivered: 06/26/2014 1:43 PM Signed for By: H.HTA
Reference:	226203.00.001.0004
Signed for by:	H.HTA
Delivery location:	ATLANTA, GA

Delivered to:	Receptionist/Front Desk
Service type:	FedEx 2Day
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	0.50 lb.
Special handling/Services:	Adult Signature Required
	Deliver Weekday

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 12:48 PM CDT on 06/26/2014.

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Thank you for your business.

WOODARD
&CURRAN

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

COMMITMENT & INTEGRITY
DRIVE RESULTS

2055 Sugarloaf Circle | Suite 175
Duluth, Georgia 30097
woodardcurran.com

T 770.622.6766
F 770.396.0095

October 29, 2014

Robin S. Futch, PG, PMP
Compliance Officer
Georgia Environmental Protection Division
Response & Remediation Program/ Voluntary Remediation Program
Suite 1054 East Floyd Tower
2 Martin Luther King, Jr. Drive, SE
Atlanta, GA 30334

Subject: Certification of Compliance for Soil - Voluntary Remediation Program
Fashion Care/Executive Care Site - HSI# 10786
2211 Savoy Drive
Chamblee, DeKalb County, Georgia.
Woodard & Curran Project No. 226203.00

Dear Ms. Futch:

Enclosed for your review is the Certification of Compliance for soil under the Voluntary Remediation Program (VRP) for the Fashion Care/Executive Care Site (Site), HSI# 10786, located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia. The soil on the Site is in compliance with Hazardous Site Response Program (HSRA) Type 5 Risk Reduction Standards (RRS) through the use of the following engineering and institutional controls that have been previously approved by the Georgia Environmental Protection Division (EPD).

- Engineering Controls:
  - (1) A concrete (building slab) and asphalt cap over the area defined as containing soil with established Site constituents above EPD approved non-residential RRS and Type 5 RRS. The area of soil impacts protected by the approved cap is shown on Figure 1, attached. In addition, the cap prevents the infiltration through the impacted soil of precipitation and surface water runoff, thereby inhibiting the migration of constituents in soil to groundwater.
  - (2) A sub-slab depressurization system was installed and is operating to mitigate the potential vapor exposure route from soil and groundwater impacts beneath the existing building on tax parcel 18-343-13-002. A vapor intrusion assessment on tax parcel 18-343-13-005 where there is an existing enclosed structure and impacted soil and groundwater present, determined that vapor mitigation measures were not required.
- Institutional Control – Uniform Environmental Covenants (UEC) for tax parcels18-343-13-002 (Fashion Care parcel, John F. Rowan, Sr. Item IV Trust (Trust) owner) and 18-343-13-005 (Southern Automatic Company owner) have been approved by the EPD, executed by the owners and the Director of the EPD, and recorded in the DeKalb County Deed Book by the Clerk of the DeKalb County Superior Court. The UECs implement the continuous monitoring

and annual reporting to the EPD of the soil cap integrity, vapor mitigation system operation, and continued maintenance of both engineering controls.

Details associated with the approved engineering and institutional controls can be found in the documents submitted to the EPD under the VRP. In addition, the VRP requirement for soil delineation to residential Type 1 RRS was also completed and is presented in the Voluntary Remediation Plan Application submitted to the EPD, dated July 9, 2010. Final documentation of all soil, groundwater and vapor assessments, and remedial actions conducted to obtain compliance with the VRP will be submitted in a VRP Compliance Status Report.

Please contact me with any questions or comments you may have.

Sincerely,

WOODARD & CURRAN INC.

Leonard J. Diprima, Jr., P.G.
Senior Project Manager

LJD/ljd

Enclosure(s)

cc: Project File

Certification of Compliance with Risk Reduction Standards for Soil
Georgia Voluntary Remediation Program
Fashion Care/Executive Care Site, HSI# 10786, 2211 Savoy Drive, Chamblee, DeKalb County, Georgia

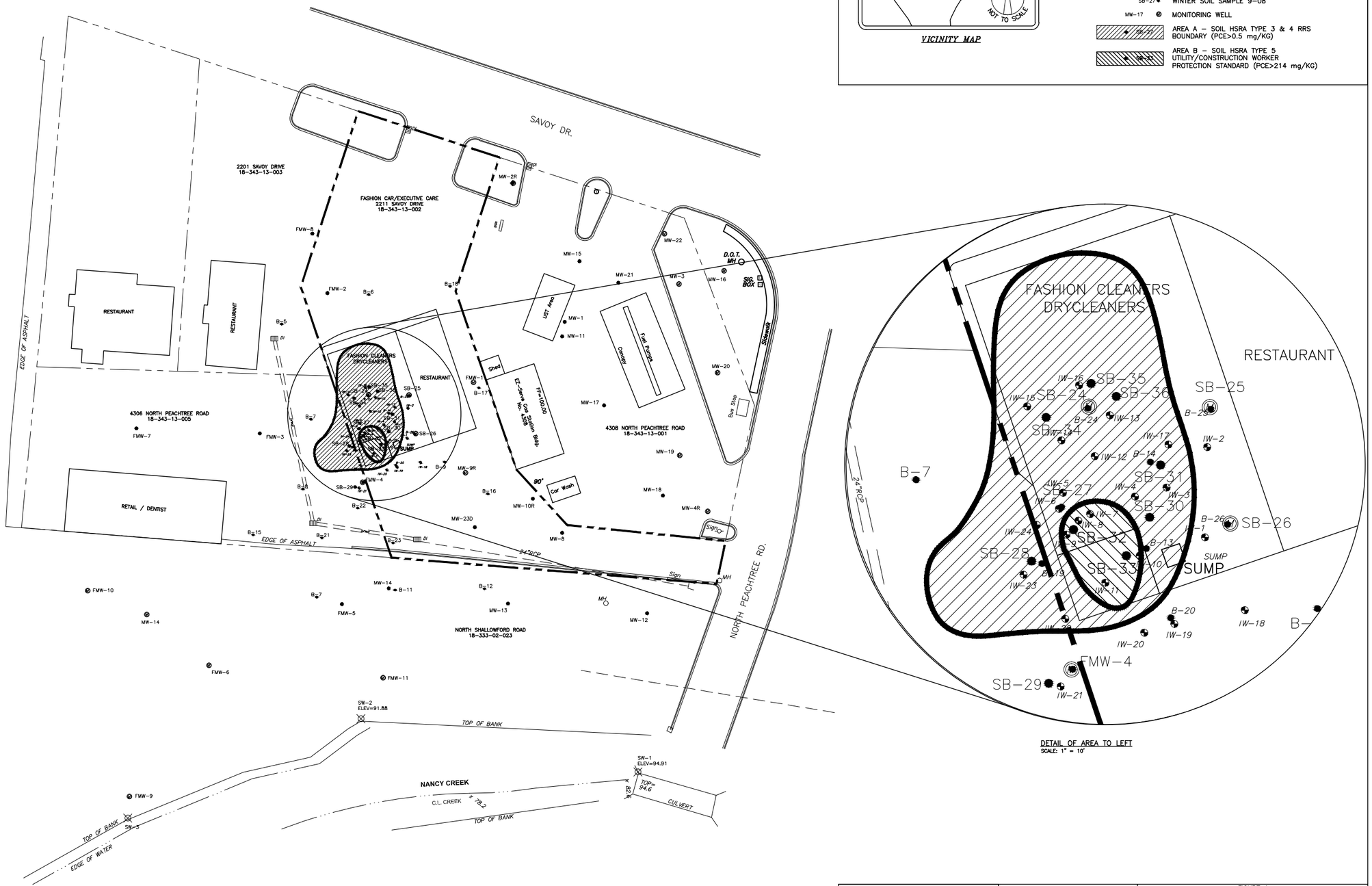
I certify under penalty of law that this submittal and all attachments were prepared under my direction in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Based on my review of the findings of this Certification submittal with respect to the risk reduction standards for soil of the Rules for Hazardous Site Response, Rule 391-3-19-07, I have determined these properties (Fashion Care/Executive Care Site, HSI# 10786, 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, Tax Parcels 18-343-13-002 (John F. Rowan, Sr. Item IV Trust owner) and 18-343-13-005 (Southern Automatic Company owner)) are currently in compliance with Type 5 risk reduction standards for soil. In accordance with the requirements for compliance with Type 5 standards, soil outside Area A and B of Figure 1 (attached) is in compliance with Type 1 RRS.

Certified by:

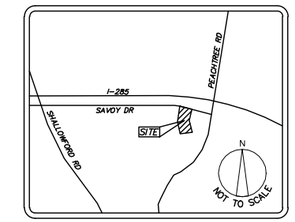
John F. Rowan, Sr. Item IV Trust
Catherine Norris, Representative

By: _____ 10/29/14
Date



NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

DETAIL OF AREA TO LEFT
SCALE: 1" = 10'



VICINITY MAP

LEGEND

- APPROXIMATE PROPERTY LINE
- ENVIRONMENTAL COVENANT SUBJECT PARCEL
- IW-19 INJECTION WELL
- FMW-2 WINTER CONFIRMATION SOIL SAMPLE 5-09
- B-18 EPIC SOIL SAMPLE 8-06, 4-07
- SB-27 WINTER SOIL SAMPLE 9-08
- MW-17 MONITORING WELL
- AREA A – SOIL HSRA TYPE 3 & 4 RRS BOUNDARY (PCE>0.5 mg/KG)
- AREA B – SOIL HSRA TYPE 5 UTILITY/CONSTRUCTION WORKER PROTECTION STANDARD (PCE>214 mg/KG)

Drawn By: GHA	Date: 5-11-12
Checked by: GTM	Project No. 08096

WINTER ENVIRONMENTAL

FIGURE 1
ENVIRONMENTAL COVENANT
SOIL HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 343 13 002

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

VOLUNTARY REMEDIATION PROGRAM
VOLUNTARY INVESTIGATION AND REMEDIATION PLAN SEMIANNUAL STATUS REPORT

Date: December 19, 2014

Site Name: Fashion Care/Executive Care Site, HSI No. 10786

Site Address: 2211 Savoy Drive, Chamblee, Georgia

County: DeKalb

This electronic copy of the Voluntary Investigation and Remediation Plan Semiannual Status Report dated December 19, 2014 for the above referenced Fashion Care/Executive Care Site, HSI No. 10786, 2211 Savoy Drive, Chamblee, Georgia, DeKalb County is complete, identical to the paper copy, and virus free.

Voluntary Investigation and Remediation Plan
Semiannual Status Report
Voluntary Remediation Program

(July 3, 2014 through December 18, 2014)

Fashion Care/Executive Care Site
HSI No. 10786
2211 Savoy Drive, Chamblee, DeKalb County, Georgia

Prepared For

John F. Rowan, Sr. Item IV Trust
PO Box 197, Carmel Valley, CA 93924

Prepared by

WOODARD &CURRAN

2055 Sugarloaf Parkway, Suite 175
Duluth, Georgia 30097

Project No. 226203

December 19, 2014

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Appendix B Contaminant Transport Modeling Report
Appendix C EPD Correspondence

Section 1
PE/PG Certification

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

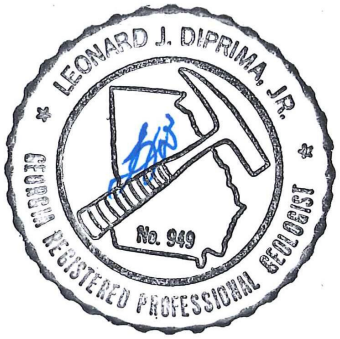
Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since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

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

Leonard J. Diprima, Jr. / Georgia PG #949 December 19, 2014

Printed Name and GA PE/PG Number Date

Signature and Stamp



Section 2
Introduction

Woodard & Curran (W&C) has prepared this Voluntary Investigation and Remediation Plan Semiannual Status Report (Status Report) in accordance with the Voluntary Remediation Program (VRP) for the Fashion Care/Executive Care Site (Site), Hazardous Site Inventory (HSI) No. 10786, located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, on behalf of the John F. Rowan, Sr. Item IV Trust (Trust). On July 9, 2010, a Voluntary Investigation and Remediation Plan Application (VIRP) was submitted to the Georgia Environmental Protection Division (EPD) Hazardous Sites Response (HSRA) Program for the Site. On December 2, 2010, the EPD approved the VIRP with comments and entered the Site into the VRP. This Status Report has been prepared to present the activities conducted from July 3, 2014 through December 18, 2014 for the Site in accordance with the VRP.

Section 3
Work Performed – July 3, 2014 through December 18, 2014

The activities currently identified to be performed at the Site under the VRP are outlined in the following documents:

- VIRP dated July 9, 2010;
- EPD VIRP approval letter dated December 2, 2010;
- EPD VIRP comment letter dated December 2, 2010;
- VRP Action Plan Technical Memorandum dated February 3, 2011 included as an attachment to the Financial Assurance submittal to the EPD dated March 2, 2011;
- EPD VIRP Status Report comment letter dated November 13, 2013; and the
- EPD VIRP Status Report comment letter dated August 14, 2014.

The primary activities that have been completed or initiated from July 3, 2014 through December 18, 2014 are listed below and detail is provided in Sections 3.1 through 3.5.

- Revision of the Conceptual Site Mode (CSM);
- Additional vapor sampling beneath the building located on the Fashion Care property;
- Completion of the modeling of the contaminant transport environment at the Site;
- Preparation of a proposed VRP surface water/groundwater monitoring plan; and
- The sale of the Fashion Care property, Parcel #18-343-13-002, and entry into the Georgia EPD Brownfield Program.

3.1 Conceptual Site Model

In the EPD comment letter dated August 14, 2014, it was requested that the CSM be revised to include the following cross-sections to scale:

- From the source area at the drycleaner building, downgradient to Nancy Creek, including monitoring wells FMW-6 and FMW-9 (Cross-section A-A');
- Perpendicular to cross-section A-A' across the source area at the drycleaner building (Cross-section B-B'); and
- Perpendicular to cross-section A-A' along Nancy Creek (Cross-section C-C').

The CSM has been revised in accordance with this request, and the locations of the CSM cross-sections are shown on Figure 1. Figure 2 presents the CSM cross sections A-A', B-B' and C-C' as noted above. The CSM represents data acquired during the course of installing boring and monitoring wells, soil sampling conducted, groundwater monitoring data acquired July 2012, and water table measurements collected April 28, 2014.

3.2 Vapor Sampling – Fashion Care Building

In November 2014, the EPD requested that additional vapor evaluation associated with the portion of the groundwater plume extending beneath the existing Fashion Care building, outside the area of soil impacts above non-residential RRS, be assessed relative to the potential for vapor intrusion. In addition, as part of this evaluation the vacant space on the east side of the building should be evaluated.

On November 19, 2014, Woodard & Curran performed sub-slab soil gas sampling at three locations within the vacant space on the east side of the building to be representative of conditions beneath the building outside of the area of influence of the previously installed vapor mitigation system. Sample locations are shown on Figure 3, and include one location near the front of the building and two locations near the rear of the building.

Samples were obtained by coring through the existing concrete floor slab to a depth of three inches below the concrete. The space between each vapor collection point and the surrounding concrete was sealed. The tightness of the seal was tested by placing a shroud over the sample point, filling the shroud with helium, and testing sub-slab vapors drawn from the sample point for the presence of helium. Polyethylene tubing was used to connect the sample points to laboratory-supplied six-liter SUMMA canisters. After purging the volume of air in the tubing, the canister was opened, and soil gas was collected at a maximum flow rate of 200 ml/minute. Collected soil gas samples were submitted to TestAmerica Laboratories in Knoxville, Tennessee for analysis by USEPA Method TO-15.

The analytical report for the collected soil gas samples is included in Appendix A. No analytes were detected in any of the three samples, indicating that groundwater impacts present beneath the building do not pose a vapor risk outside of the vapor mitigation system area of influence. Due to the presence of an approved cap over the source material and the discontinued use of PCE at the property, groundwater impacts are predicted to only diminish in the future and the risk associated with the vapor pathway will not increase.

3.3 Contaminant Transport Modeling

Contaminant transport modeling was conducted to evaluate the potential for additional exposure pathways to arise, and for known exposure pathways to become complete at levels that could impact potential receptors at levels above regulatory limits. The known receptors are the portions of the properties that have been impacted by the migration of the groundwater contaminant plume, and Nancy Creek that receives discharge from the plume.

Contaminant transport was evaluated using the following steps:

- Modeling of the transfer of soil contamination to the groundwater flow system by modeling the transfer of contaminant mass to the groundwater system with a soil flushing calculation.
- Groundwater modeling of flow and contaminant transport for the Site. Groundwater flow was simulated using MODFLOW 2000 (Harbaugh et al, 2000), modeling three dimensional groundwater flow.
- The computer code used to simulate contaminant transport was MT3DMS (Zheng and Wang, 1999). MT3DMS is a code for simulating transport of contaminants in three dimensions and uses the outputs from MODFLOW to calculate simulate transport in groundwater.

- Contaminant transport modeling was conducted in three distinct steps. The first step was to model distribution of total dissolved VOCs in the groundwater. The second step was to model the anticipated maximum concentration of PCE in the future, as this compound is the most prevalent compound at the Site with the lowest In-Stream Water Quality Standard (ISWQS). The third step was to evaluate the likely relative concentrations of the daughter products of PCE decay at the Site at the time of the maximum future PCE concentration and then compare these concentrations to the appropriate environmental standards. In order to understand the maximum expected concentration of each of the daughter products at the time of maximum PCE concentration, a simulation using BIOCHLOR22 was performed.
- In order to evaluate the potential for PCE and or its degradation products to be present in the stream above ISWQS, a groundwater to surface water mixing calculation was performed. The concentrations for PCE, TCE, DCE and VC in groundwater predicted in the previous modeled sections were then blended based on modeled groundwater discharge and the volume of flow in Nancy Creek at the Site at 7Q10 conditions.

Based on the modeling exercises completed, the plume will likely remain stable or decrease over the next 60 years. The plume generally appears to migrate down the axis of the Nancy Creek valley on the northern side of the creek. Generally, the overall plume distribution appears to be monitored adequately by the existing well network. Given these observations, the following conclusions/recommendations are made:

- The predicted plume footprint does not expand substantially beyond the existing monitoring well network;
- As the source area is depleted, the center of maximum plume concentration will slowly migrate and continue to degrade as it migrates toward Nancy Creek;
- The maximum modeled concentration of PCE is predicted to discharge to Nancy Creek approximately 41 years after the source remediation effort conducted in 2008;
- Mixing calculations for the predicted maximum concentrations of PCE and daughter products in Nancy Creek indicate that ISWQS will not be exceeded; and
- No other receptors for the groundwater plume are present within the existing or predicted footprint of the VOC plume at the Site.

A detailed report describing the contaminant transport modeling and findings is in Appendix B.

3.4 Proposed VRP Monitoring Plan

Based upon the results of the contaminant transport modeling with the current dataset, there will be no completed exposure pathways resulting from the migration and continued degradation of the groundwater plume. In order to confirm the predicted exposure trends for the Site, it is proposed that a limited groundwater and surface water sampling plan be initiated and the data acquired be input into the contaminant transport model to confirm the current results.

The outline of the monitoring plan would be to sample the following network of existing monitoring wells and surface water locations for two consecutive annual sampling events. The locations are shown on Figure 4.

- Monitoring Wells: FMW-4, FMW-6, FMW-9, FMW-12, and FMW-16
- Surface Water Locations: SW-1, SW-2 and SW-3.

Samples would be analyzed for the site-specific volatile organic compound list previously approved under the VRP. At the conclusion of the second sampling event, the data acquired would be input into the contaminant transport model to confirm the current results. Annual monitoring reports would be submitted for each of these events. The second annual monitoring report would also present the results of the modeling with recommendations based upon the results.

If this outline is acceptable to EPD based upon review of the enclosed information, a formal VRP Monitoring Plan will be presented in the VRP Compliance Status Report.

3.5 Sale of Fashion Care Property – Entry into Brownfield Program

On October 31, 2014 the Fashion Care property, Tax Parcel # 18-343-13-002 (address 2211 Savoy Drive, Chamblee, DeKalb County, Georgia), was entered into the Georgia EPD Brownfield Program by the prospective purchaser, Charles and Wendy Pero. To enter the property into the Brownfield Program, a Prospective Purchaser Compliance Status Report (PPCSR) was prepared entirely using data and information from documents submitted under the HSRA Program and VRP. A Limitation of Liability letter (LoL) was obtained from the EPD on December 3, 2014 and is provided in Appendix C. The LoL requires the new owner to adhere to the following conditions, as written:

1. The Peros must submit a notice of purchase of the above referenced property by no later than ten (10) days after closing to EPD. Please include documentation of the prohibition of the use of tetrachloroethene on the Property.
2. The Peros will give any responsible party for groundwater contamination and/or EPD access to the subject property to perform groundwater sampling and to implement an EPD approved corrective action plan or workplan for groundwater.
3. The Peros will ensure that the requirements of the Uniform Environmental Covenant (UEC) are abided by and that the required engineering controls are properly operated and maintained.
4. In the event that the Peros wish to sell the subject property, the Peros must provide fifteen (15) days notice to EPD of its intent to offer for sale the subject property or any portion thereof. All documents offering the subject property or portion of the subject property for sale will include a copy of the PPCSR, the UEC, any other documents required by the UEC or the Act, and a copy of this letter. EPD shall be provided with the name, address, phone number, and contact person for the new property owner(s) within ten (10) days of sale.
5. For the purpose of determining liability for continuing or future releases of regulated substances upon or from the properties, the background or baseline concentration for any and all releases will be based on the information provided in the PPCSR pursuant to Section 12-8-208(d) of the Act.

The Trust will continue to execute the requirements for the Site under the VRP until completion.

Of note, during the sale and acquisition process for the property it was determined that the approximate property boundaries depicted for this parcel in all HSRA Program and VRP documents were incorrect. Figure 5 shows the proper approximate property boundaries. The legal description used in all previous submittals is correct. The property boundaries in all figures presented in the VRP PPCSR, summarizing all activities and conclusions for the VRP site, will show the corrected boundaries.

Section 4
Work to be Performed

The additional activities anticipated to be performed for the Site through completion of the VIRP are outlined in the VIRP dated July 9, 2010, the EPD VIRP approval letter dated December 2, 2010, the EPD VIRP comment letter dated December 2, 2010, and the VRP Action Plan Technical Memorandum dated February 3, 2011 included as an attachment to the Financial Assurance submittal to the EPD dated March 2, 2011. Additional comments provided by the EPD regarding the June 2, 2012, December 2, 2012 and June 2, 2013 Status Reports in correspondence dated November 13, 2013; and EPD comments received August 14, 2014 regarding the July 3, 2014 Status Report will also be addressed during the execution of the VIRP.

These tasks are presented on Figure 6. The primary tasks anticipated to be completed during the next six months for the period ending June 3, 2014 are presented below:

- Submittal of the VRP Compliance Status Report for the Site; and
- Submittal of a Groundwater/Surface Water VRP Monitoring Plan for the Site.

The tasks currently identified to complete the VIRP are presented on Figure 7, a revised estimated schedule. This schedule will be revised with the submittal of each Semiannual Status Report, as required.

Section 5
Professional Services Hours This Period

A total of approximately 260 professional service hours have been completed by Woodard & Curran from July 3, 2014 through December 18, 2014. Of these total hours, 75.5 hours were utilized by the professional geologist overseeing the VRP project. The approximate distribution of hours utilized for implementation of the VRP during this period is presented below.

Company	Month/Year	Project Manager / P.G. hours	Total Hours Worked
Woodard & Curran	July 2014	25.25	29.25
Woodard & Curran	August 2014	10.5	26.25
Woodard & Curran	September 2014	12.5	63.75
Woodard & Curran	October 2014	12.5	43.75
Woodard & Curran	November 2014	7.5	56.25
Woodard & Curran	December 2014	7.25	10.75
	Total Hours	**75.5**	**260**

Note: The above hours do not include subcontractor hours worked for Woodard & Curran.

Figures

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COMMITMENT & INTEGRITY DRIVE RESULTS

WOODARD & CURRAN

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REV	DESCRIPTION	DATE

DESIGNED BY: | CHECKED BY:
DRAWN BY: | CROSS-SEC LOCATIONS.DWG

FIGURE 1

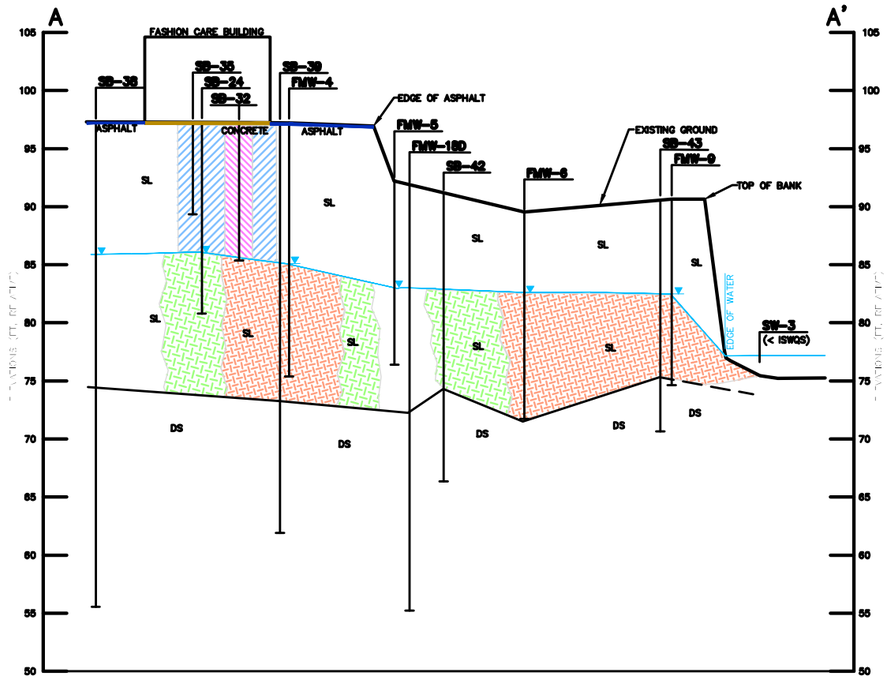
CONCEPTUAL SITE MODEL
CROSS-SECTION LOCATIONS

FASHION CARE
EXECUTIVE CARE SITE

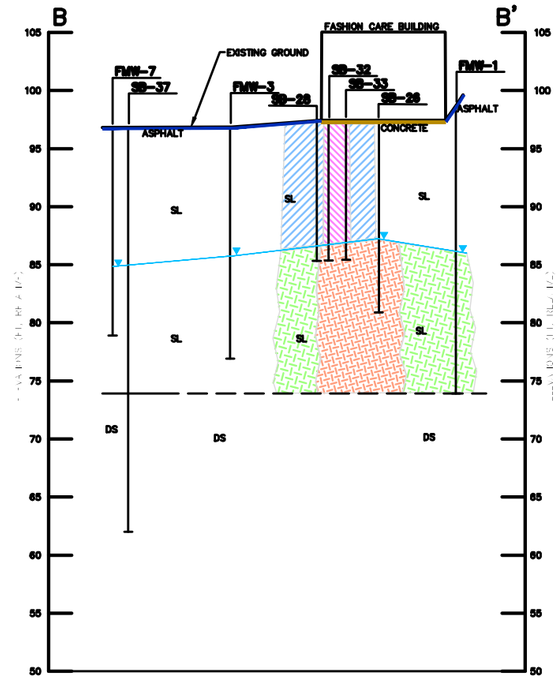
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

JOB NO.:
DATE:
SCALE:
SHEET: OF

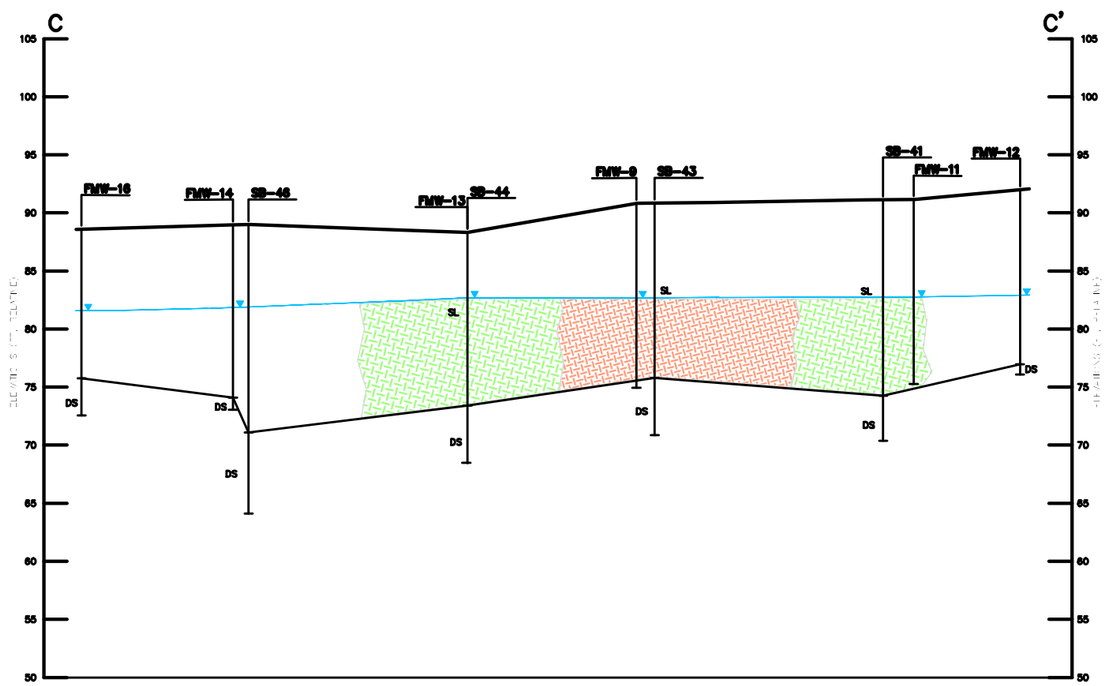
1



CROSS SECTION A–A'
(LOOKING EAST)



CROSS SECTION B–B'
(LOOKING NORTH)



CROSS SECTION C–C'
(LOOKING NORTH)

NOTES

1. EXTENT OF SOIL IMPACTS BASED ON FIELD REPORT OF THE FINAL RCRA FOR PARCEL 16-7435-02-2 PREPARED IN JUNE 2014.
2. EXTENT OF GROUNDWATER IMPACTS BASED ON FIGURE 4 IN THE JULY 2014 AVON SITE INVESTIGATION SAMPLES COLLECTED IN APRIL 2014.
3. CROSS-SECTION LOCATIONS ARE DEPICTED ON FIGURE 1.
4. STRATIGRAPHIC DATA/INFORMATION INTERPRETED FROM SOIL BORING LOGS, THE BORING LOGS AND RELATED INFORMATION PRESENTED REPRESENT CONDITIONS ONLY AT SPECIFIC LOCATIONS. SOIL CONDITIONS AT OTHER LOCATIONS MAY DIFFER FROM CONDITIONS OCCURRING AT THESE BORING LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN ALTERATION IN THE CONDITIONS AT THESE BORING LOCATIONS.

LEGEND

- SL — SILT-SANDY SILT-CLAYEY SILT
- DS — DENSE SOIL
- GROUNDWATER LEVEL (7-28-14)
- SOIL CONCENTRATIONS > TYPE 3/4 RRS
- SOIL CONCENTRATIONS > TYPE 1 STANDARD
- GROUNDWATER CONCENTRATIONS > TYPE 1/2 RRS
- GROUNDWATER CONCENTRATIONS > TYPE 1 STANDARD

HORIZONTAL SCALE
50 0 50 100

VERTICAL SCALE
5 0 5 10 FEET

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REV	DESCRIPTION	DATE

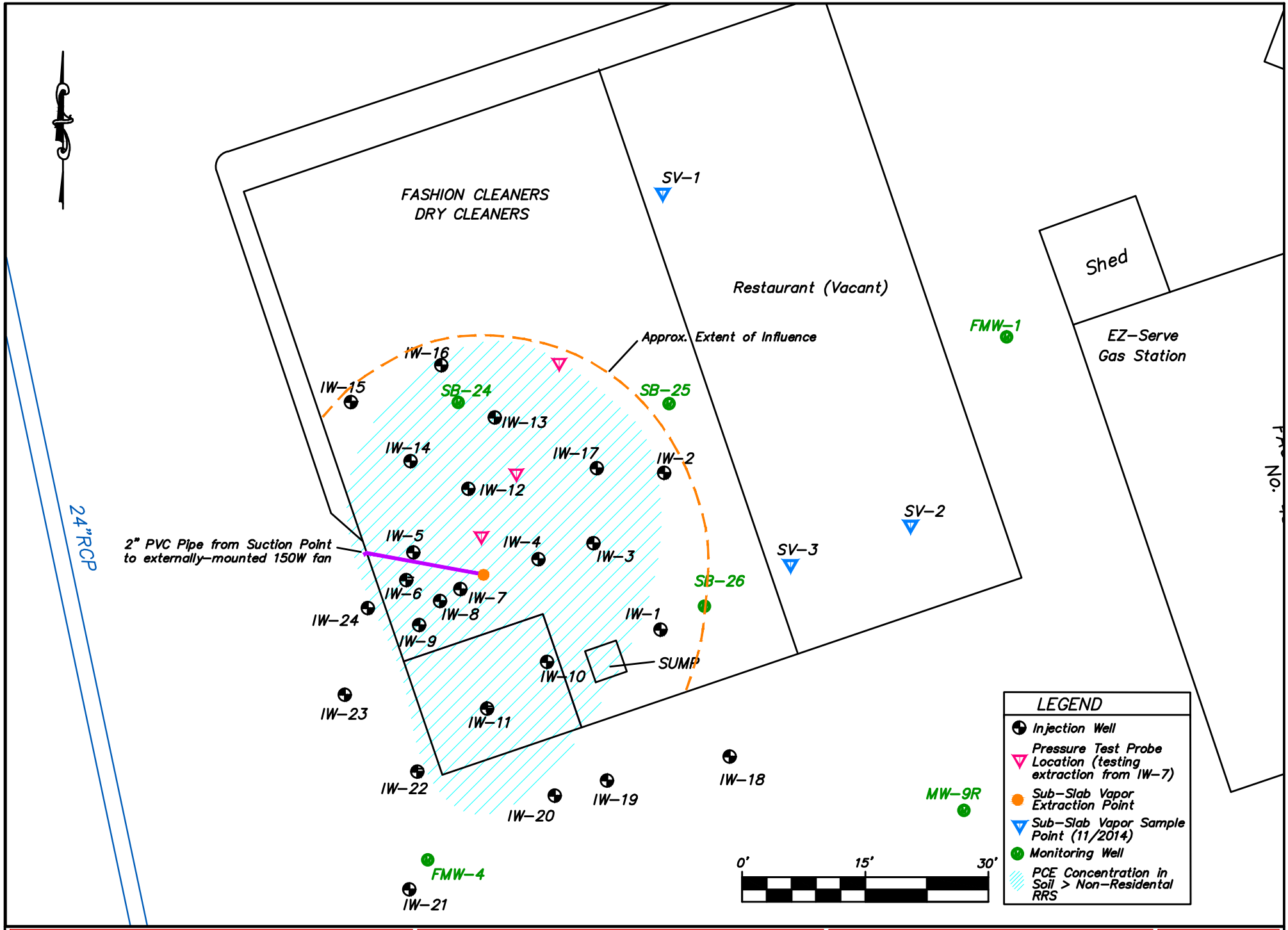
DESIGNED BY: LJD
DRAWN BY: DJM
CHECKED BY: BRM
CROSS-SECTIONS

FIGURE 2
CONCEPTUAL SITE MODEL

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GEORGIA

VRP STATUS REPORT

JOB NO.: 226203
DATE: DECEMBER 2014
SCALE:
SHEET: OF



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COMMITMENT & INTEGRITY DRIVE RESULTS

FIGURE 3
ADDITIONAL VAPOR SAMPLING LOCATIONS
NOVEMBER 19, 2014

DESIGNED BY: brm/6-27-14 | CHECKED BY:
DRAWN BY: | VI system.dwg

FASHION CARE
EXECUTIVE CARE SITE

211 SAVOY DRIVE
CHAMBLEE, GA 30341

JOB NO: 206203
DATE: 6/27/2014
SCALE: as shown

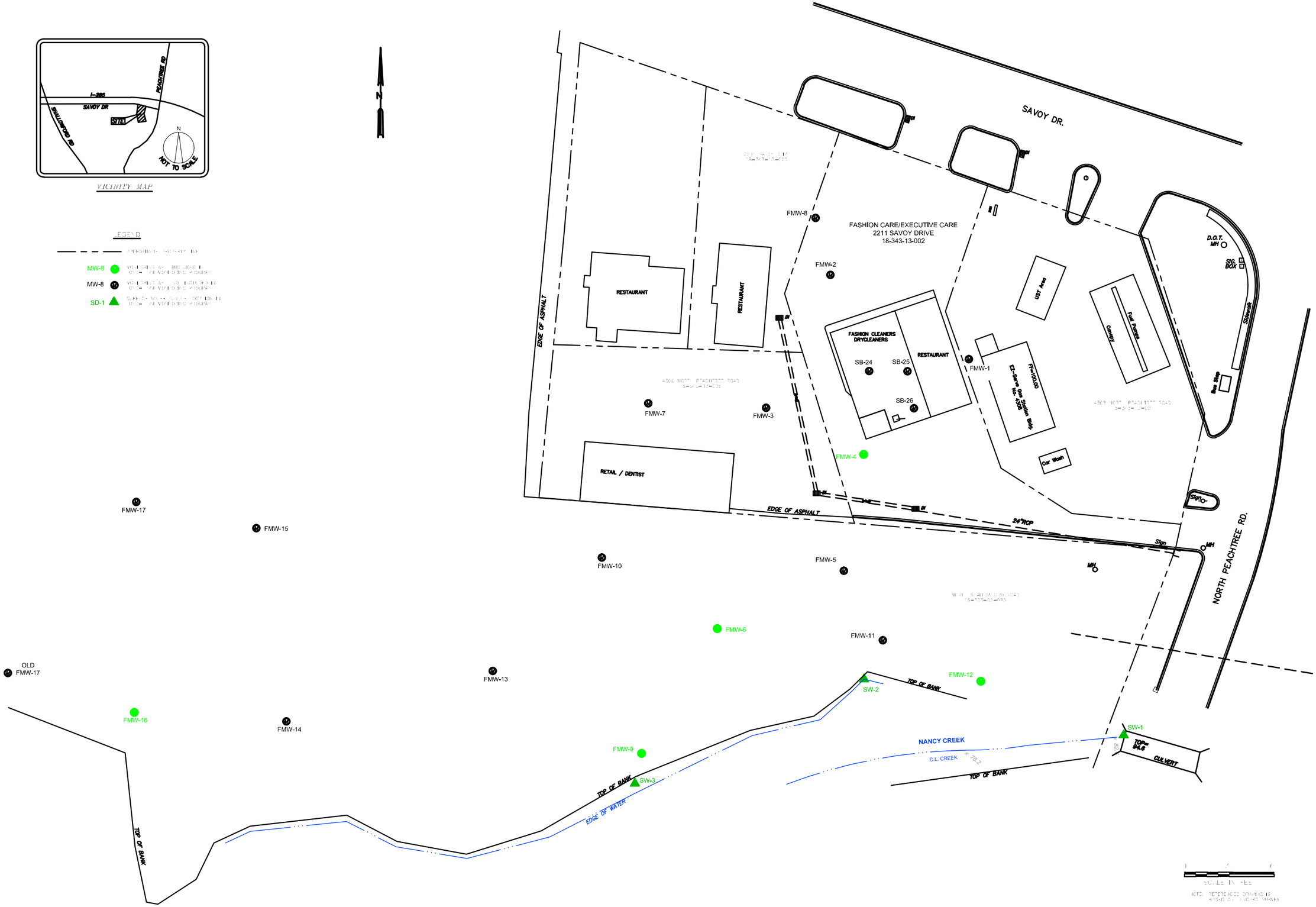
VICINITY MAP

LEGEND

MW-8 — WOODARD & CURRAN MONITORING WELL (DISTINCT VIA WOODARD & CURRAN)

MW-8 — WOODARD & CURRAN MONITORING WELL (DISTINCT VIA WOODARD & CURRAN)

SD-1 — SURFACE WATER SAMPLE LOCATION (DISTINCT VIA WOODARD & CURRAN)



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REV	DESCRIPTION	DATE

DESIGNED BY:
DRAWN BY:
CHECKED BY:
GW MONITORING PLANNING

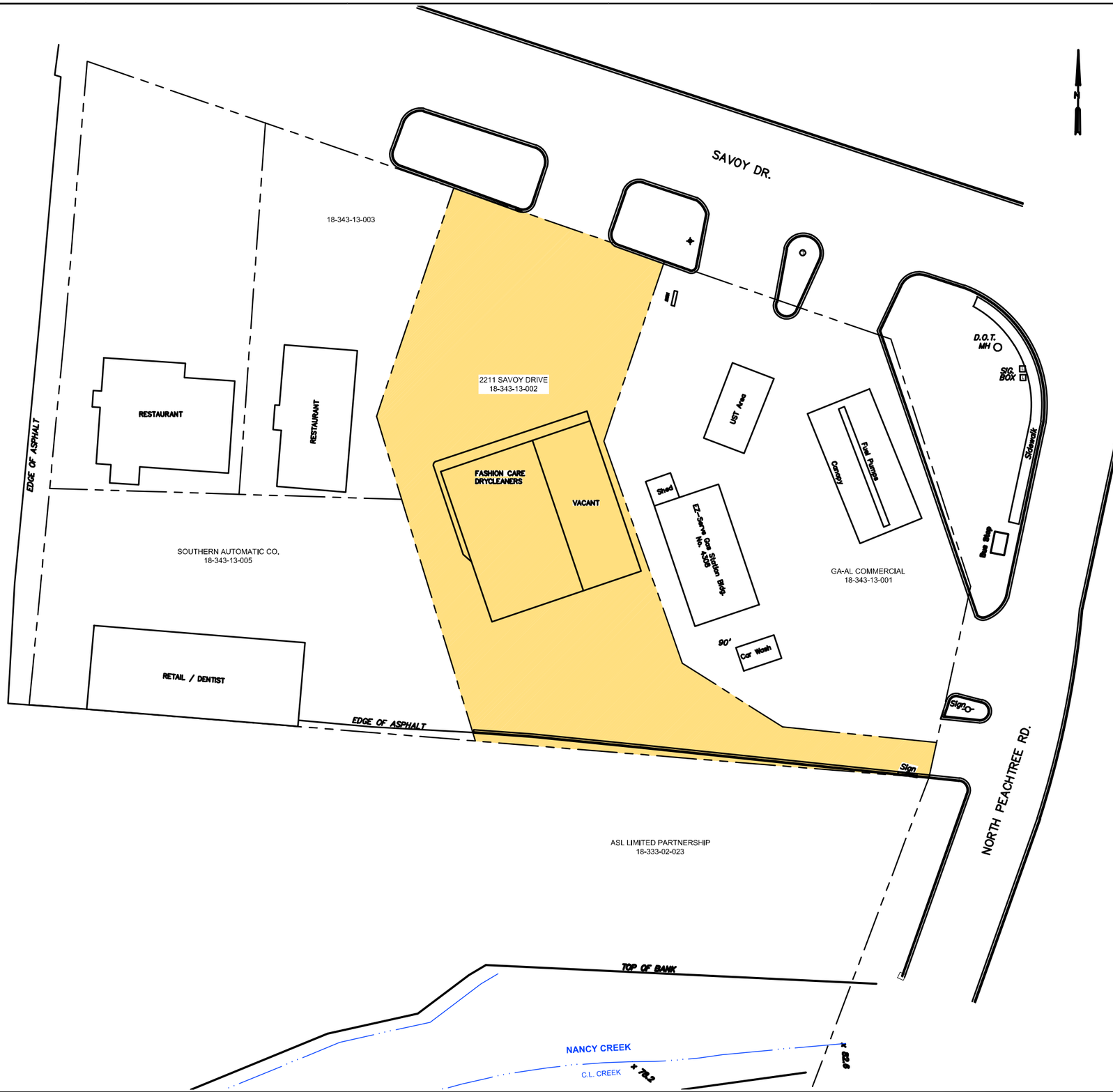
FIGURE 4
PROPOSED VRP GROUNDWATER/ SURFACE WATER MONITORING LOCATIONS

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GEORGIA

VRP STATUS REPORT

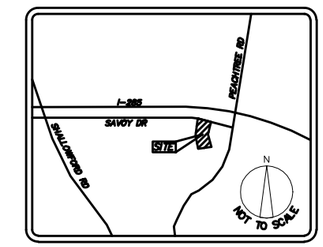
JOB NO.: 228501
DATE: 10/2014
SCALE: AS SHOWN
SHEET: OF

4



LEGEND

PROPERTY BOUNDARY



VICINITY MAP

SCALE IN FEET

NOTE: REFERENCED DRAWING IS BASED ON AN ORIGINAL SURVEY

2055 Sugarloaf Circle, Suite 175
Duluth, Georgia 30097
770.622.6766 | www.woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WOODARD & CURRAN

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REV	DESCRIPTION	DATE

DESIGNED BY:
DRAWN BY:
CHECKED BY:
TM, MP,RB

FIGURE 5

CORRECTED APPROXIMATE PROPERTY BOUNDARY

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GEORGIA

VRP STATUS REPORT

JOB NO.: 226203
DATE: 10/2014
SCALE: AS SHOWN
SHEET: OF

Figure 6
December 19, 2014
Flow Chart – Voluntary Investigation & Remediation Plan Tasks
(Completed tasks are noted.)

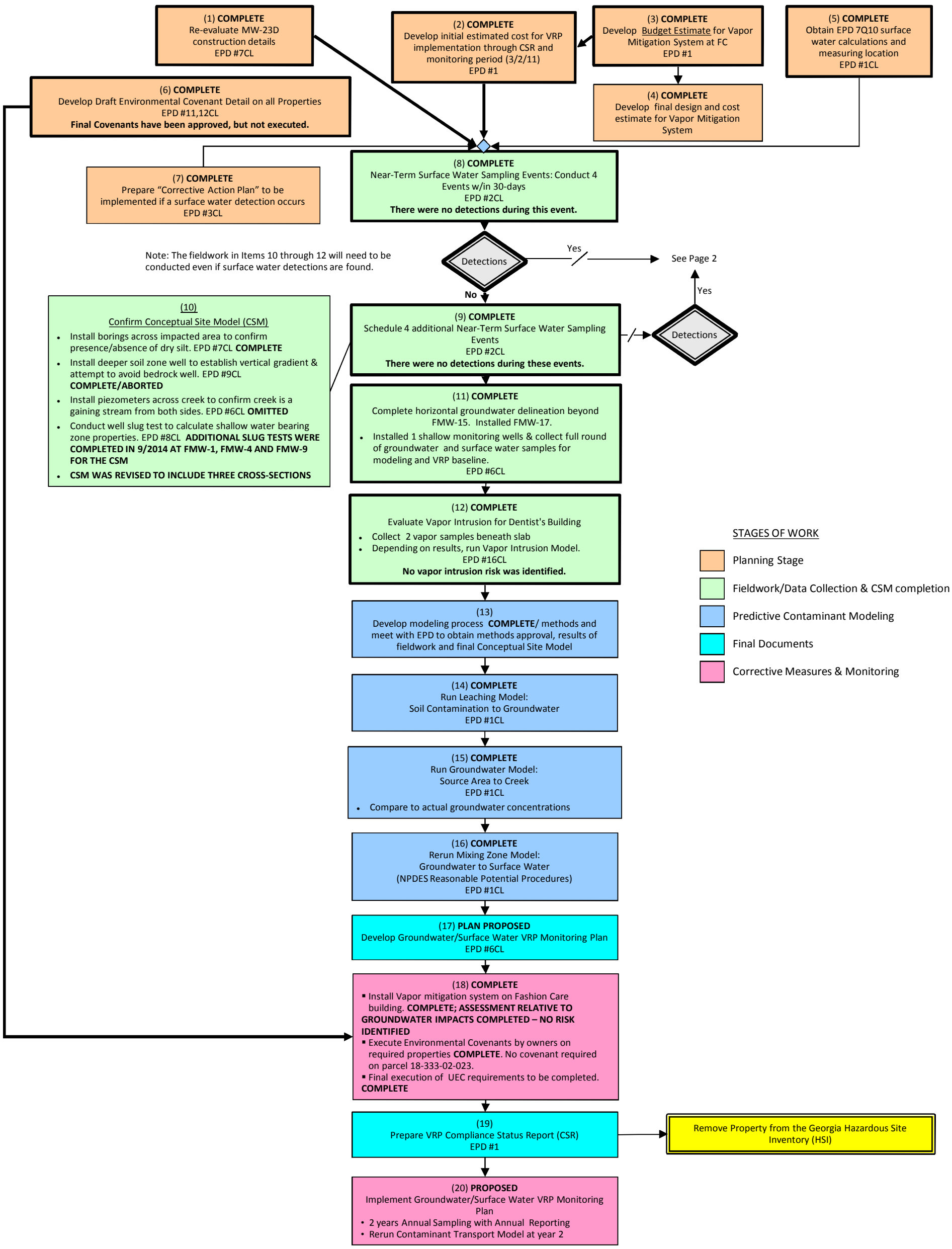
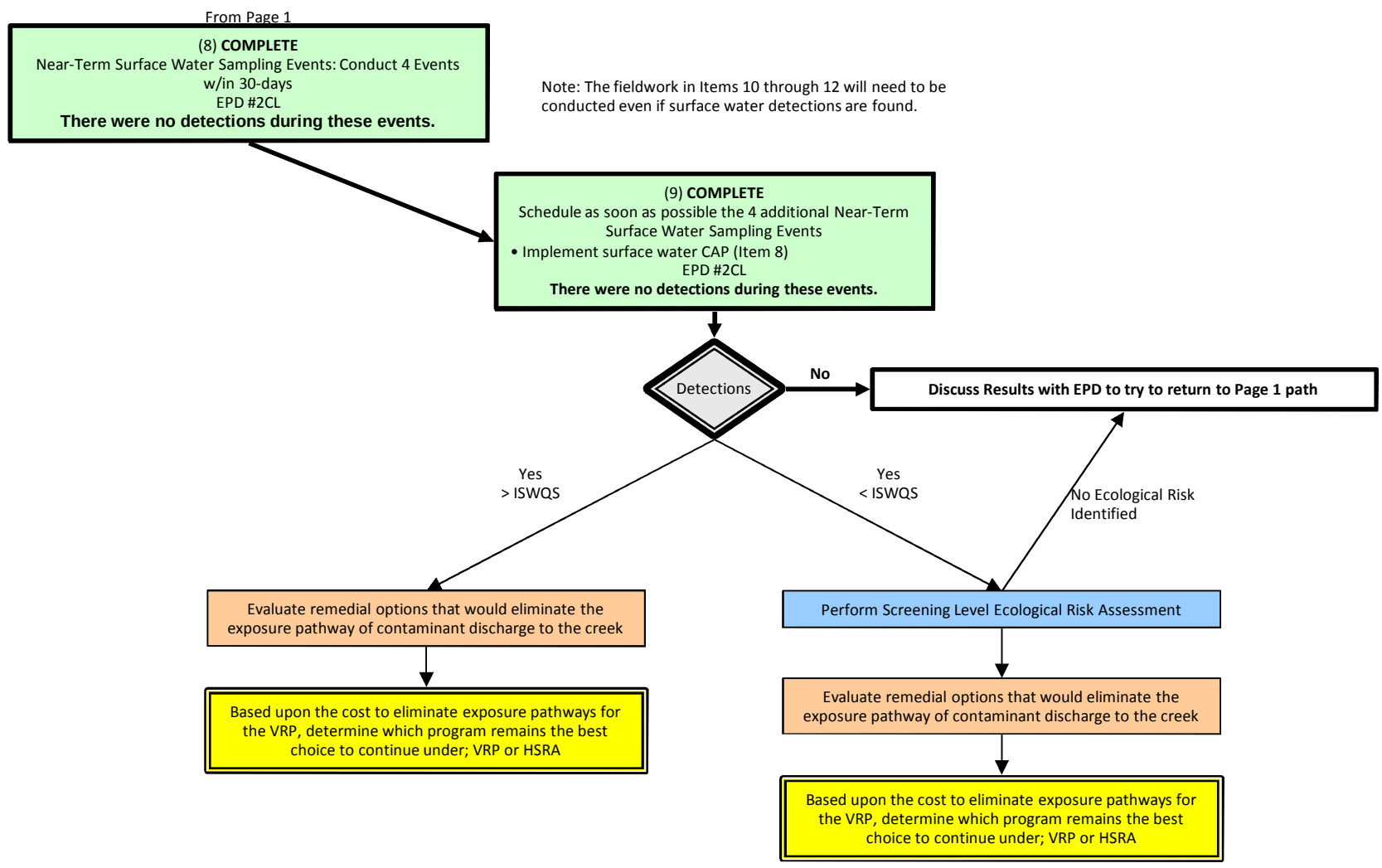


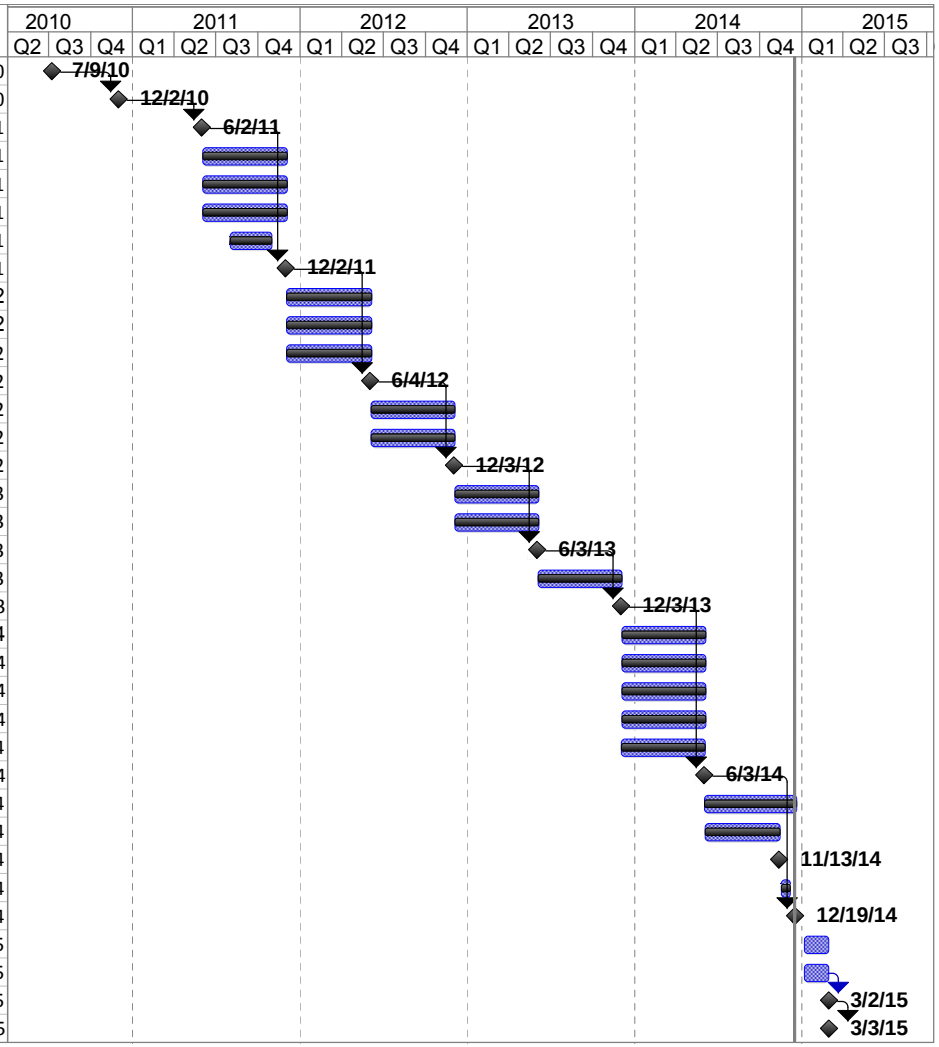
Figure 6 Contd.
December 19, 2014
Flow Chart – Voluntary Investigation & Remediation Plan Tasks



ISWQS = Georgia In-Stream Water Quality Standards

Figure 7
Estimated Voluntary Remediation Plan Schedule
Fashion Care/Executive Care Site, 2211 Savoy Drive, Chamblee, Georgia

ID	Task Name	Duration	Start	Finish
1	**VIRP Application Submittal**	0 days	Fri 7/9/10	Fri 7/9/10
2	**EPD Approval of VIRP**	0 days	Thu 12/2/10	Thu 12/2/10
3	**1st VIRP Status Report**	0 days	Thu 6/2/11	Thu 6/2/11
4	Vapor Sampling Evaluation/J&E Modeling	132 days	Thu 6/2/11	Fri 12/2/11
5	Revise Draft Ecs	132 days	Thu 6/2/11	Fri 12/2/11
6	Final Design for Vapor Mitigation System	132 days	Thu 6/2/11	Fri 12/2/11
7	Conduct 8 Surface Water Sampling Events	65 days	Mon 8/1/11	Sat 10/29/11
8	**2nd VIRP Status Report**	0 days	Fri 12/2/11	Fri 12/2/11
9	Finalize J&E Vapor Models	132 days	Fri 12/2/11	Mon 6/4/12
10	Finalize Utility & Construction Worker Standards	132 days	Fri 12/2/11	Mon 6/4/12
11	Finalize Environmental Covenants	132 days	Fri 12/2/11	Mon 6/4/12
12	**3rd VIRP Status Report**	0 days	Mon 6/4/12	Mon 6/4/12
13	Full Round of Groundwater & Surface Water Samples	131 days	Mon 6/4/12	Mon 12/3/12
14	Execute Environmental Covenants (2 of 3)	131 days	Mon 6/4/12	Mon 12/3/12
15	**4th VIRP Status Report**	0 days	Mon 12/3/12	Mon 12/3/12
16	Attempt to Execute ASL Environmental Covenant	131 days	Mon 12/3/12	Mon 6/3/13
17	Complete Horizontal Groundwater Delineation	131 days	Mon 12/3/12	Mon 6/3/13
18	**5th VIRP Status Report**	0 days	Mon 6/3/13	Mon 6/3/13
19	Fieldwork to Confirm CSM	131 days	Mon 6/3/13	Mon 12/2/13
20	**6th VIRP Status Report**	0 days	Tue 12/3/13	Tue 12/3/13
21	Collect Additional Round of GW and SW Samples	131 days	Tue 12/3/13	Tue 6/3/14
22	Prepare Surface Water CAP	131 days	Tue 12/3/13	Tue 6/3/14
23	Complete Filing of Environmental Covenants	131 days	Tue 12/3/13	Tue 6/3/14
24	Complete Vertical Groundwater Delineation	131 days	Tue 12/3/13	Tue 6/3/14
25	Install Vapor Mitigation System - Fashion Care Building	131 days	Mon 12/2/13	Mon 6/2/14
26	**7th VIRP Status Report**	0 days	Tue 6/3/14	Tue 6/3/14
27	Site Fate & Transport Modeling	145 days	Mon 6/2/14	Fri 12/19/14
28	Prepare VRP CSR	118 days	Tue 6/3/14	Thu 11/13/14
29	**Submit VRP CSR**	0 days	Thu 11/13/14	Thu 11/13/14
30	Additonal Vapor Sampling	15 days	Mon 11/17/14	Fri 12/5/14
31	**8th VIRP Status Report**	0 days	Fri 12/19/14	Fri 12/19/14
32	Prepare VRP Groundwater & Surface Water Monitoring Plan	40 days	Mon 1/5/15	Fri 2/27/15
33	Prepare VRP CSR	40 days	Mon 1/5/15	Fri 2/27/15
34	**Submit VRP CSR/Monitoring Plan**	1 day	Mon 3/2/15	Mon 3/2/15
35	**Implement Groundwater & Surface Water Monitoring Plan**	0 days	Tue 3/3/15	Tue 3/3/15



WOODARD &CURRAN

Appendix A
Laboratory Data Reports – Vapor Sampling

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
Tel: (865)291-3000

TestAmerica Job ID: 140-2355-1
Client Project/Site: Fashion Care - 226203.00

For:
Woodard & Curran Inc
2055 Sugarloaf Circle
Suite 175
Duluth, Georgia 30097

Attn: Bryan Maurer

Ryan Henry

Authorized for release by:
12/4/2014 4:52:35 PM

Ryan Henry, Project Manager I
(865)291-3000
william.henry@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 140-2355-1

Laboratory: TestAmerica Knoxville

Narrative

Job Narrative
140-2355-1

Comments
No additional comments.

Receipt
The samples were received on 11/21/2014 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Air - GC/MS VOA
Method(s) TO 14A, TO 15 LL, TO-14A, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified “zero air” as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of “zero air” by TestAmerica Knoxville.

No additional analytical or quality issues were noted.

Detection Summary

Client: Woodard & Curran Inc
Project/Site: Fashion Care - 226203.00

TestAmerica Job ID: 140-2355-1

Client Sample ID: SV-1 — Lab Sample ID: 140-2355-1

No Detections.

Client Sample ID: SV-2 — Lab Sample ID: 140-2355-2

No Detections.

Client Sample ID: SV-3 — Lab Sample ID: 140-2355-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Woodard & Curran Inc
Project/Site: Fashion Care - 226203.00

TestAmerica Job ID: 140-2355-1

Client Sample ID: SV-1

Lab Sample ID: 140-2355-1

Date Collected: 11/19/14 16:18
Matrix: Air
Date Received: 11/21/14 09:10
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0		ppb v/v			11/25/14 02:08	1
1,1,2,2-Tetrachloroethane	ND		2.0		ppb v/v			11/25/14 02:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0		ppb v/v			11/25/14 02:08	1
1,1,2-Trichloroethane	ND		2.0		ppb v/v			11/25/14 02:08	1
1,1-Dichloroethane	ND		2.0		ppb v/v			11/25/14 02:08	1
1,1-Dichloroethene	ND		2.0		ppb v/v			11/25/14 02:08	1
1,2,4-Trichlorobenzene	ND		10		ppb v/v			11/25/14 02:08	1
1,2,4-Trimethylbenzene	ND		2.0		ppb v/v			11/25/14 02:08	1
1,2-Dibromoethane (EDB)	ND		2.0		ppb v/v			11/25/14 02:08	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.0		ppb v/v			11/25/14 02:08	1
1,2-Dichlorobenzene	ND		2.0		ppb v/v			11/25/14 02:08	1
1,2-Dichloroethane	ND		2.0		ppb v/v			11/25/14 02:08	1
1,2-Dichloropropane	ND		2.0		ppb v/v			11/25/14 02:08	1
1,3,5-Trimethylbenzene	ND		2.0		ppb v/v			11/25/14 02:08	1
1,3-Dichlorobenzene	ND		2.0		ppb v/v			11/25/14 02:08	1
1,4-Dichlorobenzene	ND		2.0		ppb v/v			11/25/14 02:08	1
Benzene	ND		2.0		ppb v/v			11/25/14 02:08	1
Benzyl chloride	ND		4.0		ppb v/v			11/25/14 02:08	1
Bromomethane	ND		2.0		ppb v/v			11/25/14 02:08	1
Carbon tetrachloride	ND		2.0		ppb v/v			11/25/14 02:08	1
Chlorobenzene	ND		2.0		ppb v/v			11/25/14 02:08	1
Chloroethane	ND		2.0		ppb v/v			11/25/14 02:08	1
Chloroform	ND		2.0		ppb v/v			11/25/14 02:08	1
Chloromethane	ND		5.0		ppb v/v			11/25/14 02:08	1
cis-1,2-Dichloroethene	ND		2.0		ppb v/v			11/25/14 02:08	1
cis-1,3-Dichloropropene	ND		2.0		ppb v/v			11/25/14 02:08	1
Dichlorodifluoromethane	ND		2.0		ppb v/v			11/25/14 02:08	1
Ethylbenzene	ND		2.0		ppb v/v			11/25/14 02:08	1
Hexachlorobutadiene	ND		10		ppb v/v			11/25/14 02:08	1
Methyl tert-butyl ether	ND		10		ppb v/v			11/25/14 02:08	1
Methylene Chloride	ND		5.0		ppb v/v			11/25/14 02:08	1
m-Xylene & p-Xylene	ND		2.0		ppb v/v			11/25/14 02:08	1
Naphthalene	ND		5.0		ppb v/v			11/25/14 02:08	1
o-Xylene	ND		2.0		ppb v/v			11/25/14 02:08	1
Styrene	ND		2.0		ppb v/v			11/25/14 02:08	1
Tetrachloroethene	ND		2.0		ppb v/v			11/25/14 02:08	1
Toluene	ND		2.0		ppb v/v			11/25/14 02:08	1
trans-1,3-Dichloropropene	ND		2.0		ppb v/v			11/25/14 02:08	1
Trichloroethene	ND		2.0		ppb v/v			11/25/14 02:08	1
Trichlorofluoromethane	ND		2.0		ppb v/v			11/25/14 02:08	1
Vinyl chloride	ND		2.0		ppb v/v			11/25/14 02:08	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		11		ug/m3			11/25/14 02:08	1
1,1,2,2-Tetrachloroethane	ND		14		ug/m3			11/25/14 02:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		15		ug/m3			11/25/14 02:08	1
1,1,2-Trichloroethane	ND		11		ug/m3			11/25/14 02:08	1
1,1-Dichloroethane	ND		8.1		ug/m3			11/25/14 02:08	1
1,1-Dichloroethene	ND		7.9		ug/m3			11/25/14 02:08	1

Client Sample Results

Client: Woodard & Curran Inc
Project/Site: Fashion Care - 226203.00

TestAmerica Job ID: 140-2355-1

Client Sample ID: SV-1

Lab Sample ID: 140-2355-1
Matrix: Air

Date Collected: 11/19/14 16:18
Date Received: 11/21/14 09:10
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		74		ug/m3			11/25/14 02:08	1
1,2,4-Trimethylbenzene	ND		9.8		ug/m3			11/25/14 02:08	1
1,2-Dibromoethane (EDB)	ND		15		ug/m3			11/25/14 02:08	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		14		ug/m3			11/25/14 02:08	1
1,2-Dichlorobenzene	ND		12		ug/m3			11/25/14 02:08	1
1,2-Dichloroethane	ND		8.1		ug/m3			11/25/14 02:08	1
1,2-Dichloropropane	ND		9.2		ug/m3			11/25/14 02:08	1
1,3,5-Trimethylbenzene	ND		9.8		ug/m3			11/25/14 02:08	1
1,3-Dichlorobenzene	ND		12		ug/m3			11/25/14 02:08	1
1,4-Dichlorobenzene	ND		12		ug/m3			11/25/14 02:08	1
Benzene	ND		6.4		ug/m3			11/25/14 02:08	1
Benzyl chloride	ND		21		ug/m3			11/25/14 02:08	1
Bromomethane	ND		7.8		ug/m3			11/25/14 02:08	1
Carbon tetrachloride	ND		13		ug/m3			11/25/14 02:08	1
Chlorobenzene	ND		9.2		ug/m3			11/25/14 02:08	1
Chloroethane	ND		5.3		ug/m3			11/25/14 02:08	1
Chloroform	ND		9.8		ug/m3			11/25/14 02:08	1
Chloromethane	ND		10		ug/m3			11/25/14 02:08	1
cis-1,2-Dichloroethene	ND		7.9		ug/m3			11/25/14 02:08	1
cis-1,3-Dichloropropene	ND		9.1		ug/m3			11/25/14 02:08	1
Dichlorodifluoromethane	ND		9.9		ug/m3			11/25/14 02:08	1
Ethylbenzene	ND		8.7		ug/m3			11/25/14 02:08	1
Hexachlorobutadiene	ND		110		ug/m3			11/25/14 02:08	1
Methyl tert-butyl ether	ND		36		ug/m3			11/25/14 02:08	1
Methylene Chloride	ND		17		ug/m3			11/25/14 02:08	1
m-Xylene & p-Xylene	ND		8.7		ug/m3			11/25/14 02:08	1
Naphthalene	ND		26		ug/m3			11/25/14 02:08	1
o-Xylene	ND		8.7		ug/m3			11/25/14 02:08	1
Styrene	ND		8.5		ug/m3			11/25/14 02:08	1
Tetrachloroethene	ND		14		ug/m3			11/25/14 02:08	1
Toluene	ND		7.5		ug/m3			11/25/14 02:08	1
trans-1,3-Dichloropropene	ND		9.1		ug/m3			11/25/14 02:08	1
Trichloroethene	ND		11		ug/m3			11/25/14 02:08	1
Trichlorofluoromethane	ND		11		ug/m3			11/25/14 02:08	1
Vinyl chloride	ND		5.1		ug/m3			11/25/14 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*11/25/14 02:08*	*1*

Client Sample ID: SV-2

Lab Sample ID: 140-2355-2
Matrix: Air

Date Collected: 11/19/14 16:25
Date Received: 11/21/14 09:10
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0		ppb v/v			11/25/14 02:50	1
1,1,2,2-Tetrachloroethane	ND		2.0		ppb v/v			11/25/14 02:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0		ppb v/v			11/25/14 02:50	1

Client Sample ID: SV-2

Lab Sample ID: 140-2355-2

Date Collected: 11/19/14 16:25

Matrix: Air

Date Received: 11/21/14 09:10

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		2.0		ppb v/v			11/25/14 02:50	1
1,1-Dichloroethane	ND		2.0		ppb v/v			11/25/14 02:50	1
1,1-Dichloroethene	ND		2.0		ppb v/v			11/25/14 02:50	1
1,2,4-Trichlorobenzene	ND		10		ppb v/v			11/25/14 02:50	1
1,2,4-Trimethylbenzene	ND		2.0		ppb v/v			11/25/14 02:50	1
1,2-Dibromoethane (EDB)	ND		2.0		ppb v/v			11/25/14 02:50	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.0		ppb v/v			11/25/14 02:50	1
1,2-Dichlorobenzene	ND		2.0		ppb v/v			11/25/14 02:50	1
1,2-Dichloroethane	ND		2.0		ppb v/v			11/25/14 02:50	1
1,2-Dichloropropane	ND		2.0		ppb v/v			11/25/14 02:50	1
1,3,5-Trimethylbenzene	ND		2.0		ppb v/v			11/25/14 02:50	1
1,3-Dichlorobenzene	ND		2.0		ppb v/v			11/25/14 02:50	1
1,4-Dichlorobenzene	ND		2.0		ppb v/v			11/25/14 02:50	1
Benzene	ND		2.0		ppb v/v			11/25/14 02:50	1
Benzyl chloride	ND		4.0		ppb v/v			11/25/14 02:50	1
Bromomethane	ND		2.0		ppb v/v			11/25/14 02:50	1
Carbon tetrachloride	ND		2.0		ppb v/v			11/25/14 02:50	1
Chlorobenzene	ND		2.0		ppb v/v			11/25/14 02:50	1
Chloroethane	ND		2.0		ppb v/v			11/25/14 02:50	1
Chloroform	ND		2.0		ppb v/v			11/25/14 02:50	1
Chloromethane	ND		5.0		ppb v/v			11/25/14 02:50	1
cis-1,2-Dichloroethene	ND		2.0		ppb v/v			11/25/14 02:50	1
cis-1,3-Dichloropropene	ND		2.0		ppb v/v			11/25/14 02:50	1
Dichlorodifluoromethane	ND		2.0		ppb v/v			11/25/14 02:50	1
Ethylbenzene	ND		2.0		ppb v/v			11/25/14 02:50	1
Hexachlorobutadiene	ND		10		ppb v/v			11/25/14 02:50	1
Methyl tert-butyl ether	ND		10		ppb v/v			11/25/14 02:50	1
Methylene Chloride	ND		5.0		ppb v/v			11/25/14 02:50	1
m-Xylene & p-Xylene	ND		2.0		ppb v/v			11/25/14 02:50	1
Naphthalene	ND		5.0		ppb v/v			11/25/14 02:50	1
o-Xylene	ND		2.0		ppb v/v			11/25/14 02:50	1
Styrene	ND		2.0		ppb v/v			11/25/14 02:50	1
Tetrachloroethene	ND		2.0		ppb v/v			11/25/14 02:50	1
Toluene	ND		2.0		ppb v/v			11/25/14 02:50	1
trans-1,3-Dichloropropene	ND		2.0		ppb v/v			11/25/14 02:50	1
Trichloroethene	ND		2.0		ppb v/v			11/25/14 02:50	1
Trichlorofluoromethane	ND		2.0		ppb v/v			11/25/14 02:50	1
Vinyl chloride	ND		2.0		ppb v/v			11/25/14 02:50	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		11		ug/m3			11/25/14 02:50	1
1,1,2,2-Tetrachloroethane	ND		14		ug/m3			11/25/14 02:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		15		ug/m3			11/25/14 02:50	1
1,1,2-Trichloroethane	ND		11		ug/m3			11/25/14 02:50	1
1,1-Dichloroethane	ND		8.1		ug/m3			11/25/14 02:50	1
1,1-Dichloroethene	ND		7.9		ug/m3			11/25/14 02:50	1
1,2,4-Trichlorobenzene	ND		74		ug/m3			11/25/14 02:50	1
1,2,4-Trimethylbenzene	ND		9.8		ug/m3			11/25/14 02:50	1
1,2-Dibromoethane (EDB)	ND		15		ug/m3			11/25/14 02:50	1

Client Sample ID: SV-2

Lab Sample ID: 140-2355-2

Date Collected: 11/19/14 16:25

Matrix: Air

Date Received: 11/21/14 09:10

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		14		ug/m3			11/25/14 02:50	1
1,2-Dichlorobenzene	ND		12		ug/m3			11/25/14 02:50	1
1,2-Dichloroethane	ND		8.1		ug/m3			11/25/14 02:50	1
1,2-Dichloropropane	ND		9.2		ug/m3			11/25/14 02:50	1
1,3,5-Trimethylbenzene	ND		9.8		ug/m3			11/25/14 02:50	1
1,3-Dichlorobenzene	ND		12		ug/m3			11/25/14 02:50	1
1,4-Dichlorobenzene	ND		12		ug/m3			11/25/14 02:50	1
Benzene	ND		6.4		ug/m3			11/25/14 02:50	1
Benzyl chloride	ND		21		ug/m3			11/25/14 02:50	1
Bromomethane	ND		7.8		ug/m3			11/25/14 02:50	1
Carbon tetrachloride	ND		13		ug/m3			11/25/14 02:50	1
Chlorobenzene	ND		9.2		ug/m3			11/25/14 02:50	1
Chloroethane	ND		5.3		ug/m3			11/25/14 02:50	1
Chloroform	ND		9.8		ug/m3			11/25/14 02:50	1
Chloromethane	ND		10		ug/m3			11/25/14 02:50	1
cis-1,2-Dichloroethene	ND		7.9		ug/m3			11/25/14 02:50	1
cis-1,3-Dichloropropene	ND		9.1		ug/m3			11/25/14 02:50	1
Dichlorodifluoromethane	ND		9.9		ug/m3			11/25/14 02:50	1
Ethylbenzene	ND		8.7		ug/m3			11/25/14 02:50	1
Hexachlorobutadiene	ND		110		ug/m3			11/25/14 02:50	1
Methyl tert-butyl ether	ND		36		ug/m3			11/25/14 02:50	1
Methylene Chloride	ND		17		ug/m3			11/25/14 02:50	1
m-Xylene & p-Xylene	ND		8.7		ug/m3			11/25/14 02:50	1
Naphthalene	ND		26		ug/m3			11/25/14 02:50	1
o-Xylene	ND		8.7		ug/m3			11/25/14 02:50	1
Styrene	ND		8.5		ug/m3			11/25/14 02:50	1
Tetrachloroethene	ND		14		ug/m3			11/25/14 02:50	1
Toluene	ND		7.5		ug/m3			11/25/14 02:50	1
trans-1,3-Dichloropropene	ND		9.1		ug/m3			11/25/14 02:50	1
Trichloroethene	ND		11		ug/m3			11/25/14 02:50	1
Trichlorofluoromethane	ND		11		ug/m3			11/25/14 02:50	1
Vinyl chloride	ND		5.1		ug/m3			11/25/14 02:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*11/25/14 02:50*	*1*

Client Sample ID: SV-3

Lab Sample ID: 140-2355-3

Date Collected: 11/19/14 17:08

Matrix: Air

Date Received: 11/21/14 09:10

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0		ppb v/v			11/25/14 03:33	1
1,1,2,2-Tetrachloroethane	ND		2.0		ppb v/v			11/25/14 03:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0		ppb v/v			11/25/14 03:33	1
1,1,2-Trichloroethane	ND		2.0		ppb v/v			11/25/14 03:33	1
1,1-Dichloroethane	ND		2.0		ppb v/v			11/25/14 03:33	1
1,1-Dichloroethene	ND		2.0		ppb v/v			11/25/14 03:33	1

Client Sample ID: SV-3

Lab Sample ID: 140-2355-3

Date Collected: 11/19/14 17:08

Matrix: Air

Date Received: 11/21/14 09:10

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10		ppb v/v			11/25/14 03:33	1
1,2,4-Trimethylbenzene	ND		2.0		ppb v/v			11/25/14 03:33	1
1,2-Dibromoethane (EDB)	ND		2.0		ppb v/v			11/25/14 03:33	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.0		ppb v/v			11/25/14 03:33	1
1,2-Dichlorobenzene	ND		2.0		ppb v/v			11/25/14 03:33	1
1,2-Dichloroethane	ND		2.0		ppb v/v			11/25/14 03:33	1
1,2-Dichloropropane	ND		2.0		ppb v/v			11/25/14 03:33	1
1,3,5-Trimethylbenzene	ND		2.0		ppb v/v			11/25/14 03:33	1
1,3-Dichlorobenzene	ND		2.0		ppb v/v			11/25/14 03:33	1
1,4-Dichlorobenzene	ND		2.0		ppb v/v			11/25/14 03:33	1
Benzene	ND		2.0		ppb v/v			11/25/14 03:33	1
Benzyl chloride	ND		4.0		ppb v/v			11/25/14 03:33	1
Bromomethane	ND		2.0		ppb v/v			11/25/14 03:33	1
Carbon tetrachloride	ND		2.0		ppb v/v			11/25/14 03:33	1
Chlorobenzene	ND		2.0		ppb v/v			11/25/14 03:33	1
Chloroethane	ND		2.0		ppb v/v			11/25/14 03:33	1
Chloroform	ND		2.0		ppb v/v			11/25/14 03:33	1
Chloromethane	ND		5.0		ppb v/v			11/25/14 03:33	1
cis-1,2-Dichloroethene	ND		2.0		ppb v/v			11/25/14 03:33	1
cis-1,3-Dichloropropene	ND		2.0		ppb v/v			11/25/14 03:33	1
Dichlorodifluoromethane	ND		2.0		ppb v/v			11/25/14 03:33	1
Ethylbenzene	ND		2.0		ppb v/v			11/25/14 03:33	1
Hexachlorobutadiene	ND		10		ppb v/v			11/25/14 03:33	1
Methyl tert-butyl ether	ND		10		ppb v/v			11/25/14 03:33	1
Methylene Chloride	ND		5.0		ppb v/v			11/25/14 03:33	1
m-Xylene & p-Xylene	ND		2.0		ppb v/v			11/25/14 03:33	1
Naphthalene	ND		5.0		ppb v/v			11/25/14 03:33	1
o-Xylene	ND		2.0		ppb v/v			11/25/14 03:33	1
Styrene	ND		2.0		ppb v/v			11/25/14 03:33	1
Tetrachloroethene	ND		2.0		ppb v/v			11/25/14 03:33	1
Toluene	ND		2.0		ppb v/v			11/25/14 03:33	1
trans-1,3-Dichloropropene	ND		2.0		ppb v/v			11/25/14 03:33	1
Trichloroethene	ND		2.0		ppb v/v			11/25/14 03:33	1
Trichlorofluoromethane	ND		2.0		ppb v/v			11/25/14 03:33	1
Vinyl chloride	ND		2.0		ppb v/v			11/25/14 03:33	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		11		ug/m3			11/25/14 03:33	1
1,1,2,2-Tetrachloroethane	ND		14		ug/m3			11/25/14 03:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		15		ug/m3			11/25/14 03:33	1
1,1,2-Trichloroethane	ND		11		ug/m3			11/25/14 03:33	1
1,1-Dichloroethane	ND		8.1		ug/m3			11/25/14 03:33	1
1,1-Dichloroethene	ND		7.9		ug/m3			11/25/14 03:33	1
1,2,4-Trichlorobenzene	ND		74		ug/m3			11/25/14 03:33	1
1,2,4-Trimethylbenzene	ND		9.8		ug/m3			11/25/14 03:33	1
1,2-Dibromoethane (EDB)	ND		15		ug/m3			11/25/14 03:33	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		14		ug/m3			11/25/14 03:33	1
1,2-Dichlorobenzene	ND		12		ug/m3			11/25/14 03:33	1
1,2-Dichloroethane	ND		8.1		ug/m3			11/25/14 03:33	1

Client Sample Results

Client: Woodard & Curran Inc
Project/Site: Fashion Care - 226203.00

TestAmerica Job ID: 140-2355-1

Client Sample ID: SV-3

Lab Sample ID: 140-2355-3

Date Collected: 11/19/14 17:08
Matrix: Air
Date Received: 11/21/14 09:10
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		9.2		ug/m3			11/25/14 03:33	1
1,3,5-Trimethylbenzene	ND		9.8		ug/m3			11/25/14 03:33	1
1,3-Dichlorobenzene	ND		12		ug/m3			11/25/14 03:33	1
1,4-Dichlorobenzene	ND		12		ug/m3			11/25/14 03:33	1
Benzene	ND		6.4		ug/m3			11/25/14 03:33	1
Benzyl chloride	ND		21		ug/m3			11/25/14 03:33	1
Bromomethane	ND		7.8		ug/m3			11/25/14 03:33	1
Carbon tetrachloride	ND		13		ug/m3			11/25/14 03:33	1
Chlorobenzene	ND		9.2		ug/m3			11/25/14 03:33	1
Chloroethane	ND		5.3		ug/m3			11/25/14 03:33	1
Chloroform	ND		9.8		ug/m3			11/25/14 03:33	1
Chloromethane	ND		10		ug/m3			11/25/14 03:33	1
cis-1,2-Dichloroethene	ND		7.9		ug/m3			11/25/14 03:33	1
cis-1,3-Dichloropropene	ND		9.1		ug/m3			11/25/14 03:33	1
Dichlorodifluoromethane	ND		9.9		ug/m3			11/25/14 03:33	1
Ethylbenzene	ND		8.7		ug/m3			11/25/14 03:33	1
Hexachlorobutadiene	ND		110		ug/m3			11/25/14 03:33	1
Methyl tert-butyl ether	ND		36		ug/m3			11/25/14 03:33	1
Methylene Chloride	ND		17		ug/m3			11/25/14 03:33	1
m-Xylene & p-Xylene	ND		8.7		ug/m3			11/25/14 03:33	1
Naphthalene	ND		26		ug/m3			11/25/14 03:33	1
o-Xylene	ND		8.7		ug/m3			11/25/14 03:33	1
Styrene	ND		8.5		ug/m3			11/25/14 03:33	1
Tetrachloroethene	ND		14		ug/m3			11/25/14 03:33	1
Toluene	ND		7.5		ug/m3			11/25/14 03:33	1
trans-1,3-Dichloropropene	ND		9.1		ug/m3			11/25/14 03:33	1
Trichloroethene	ND		11		ug/m3			11/25/14 03:33	1
Trichlorofluoromethane	ND		11		ug/m3			11/25/14 03:33	1
Vinyl chloride	ND		5.1		ug/m3			11/25/14 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*11/25/14 03:33*	*1*

Surrogate Summary

Client: Woodard & Curran Inc
Project/Site: Fashion Care - 226203.00

TestAmerica Job ID: 140-2355-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**BFB (60-140)**							
140-2355-1	SV-1	97							
140-2355-2	SV-2	98							
140-2355-3	SV-3	97							
LCS 140-1963/1002	Lab Control Sample	104							
MB 140-1963/7	Method Blank	93							

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 140-1963/7
Matrix: Air
Analysis Batch: 1963

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20		ppb v/v			11/24/14 18:01	1
1,1,2,2-Tetrachloroethane	ND		0.20		ppb v/v			11/24/14 18:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20		ppb v/v			11/24/14 18:01	1
1,1,2-Trichloroethane	ND		0.20		ppb v/v			11/24/14 18:01	1
1,1-Dichloroethane	ND		0.20		ppb v/v			11/24/14 18:01	1
1,1-Dichloroethene	ND		0.20		ppb v/v			11/24/14 18:01	1
1,2,4-Trichlorobenzene	ND		1.0		ppb v/v			11/24/14 18:01	1
1,2,4-Trimethylbenzene	ND		0.20		ppb v/v			11/24/14 18:01	1
1,2-Dibromoethane (EDB)	ND		0.20		ppb v/v			11/24/14 18:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20		ppb v/v			11/24/14 18:01	1
1,2-Dichlorobenzene	ND		0.20		ppb v/v			11/24/14 18:01	1
1,2-Dichloroethane	ND		0.20		ppb v/v			11/24/14 18:01	1
1,2-Dichloropropane	ND		0.20		ppb v/v			11/24/14 18:01	1
1,3,5-Trimethylbenzene	ND		0.20		ppb v/v			11/24/14 18:01	1
1,3-Dichlorobenzene	ND		0.20		ppb v/v			11/24/14 18:01	1
1,4-Dichlorobenzene	ND		0.20		ppb v/v			11/24/14 18:01	1
Benzene	ND		0.20		ppb v/v			11/24/14 18:01	1
Benzyl chloride	ND		0.40		ppb v/v			11/24/14 18:01	1
Bromomethane	ND		0.20		ppb v/v			11/24/14 18:01	1
Carbon tetrachloride	ND		0.20		ppb v/v			11/24/14 18:01	1
Chlorobenzene	ND		0.20		ppb v/v			11/24/14 18:01	1
Chloroethane	ND		0.20		ppb v/v			11/24/14 18:01	1
Chloroform	ND		0.20		ppb v/v			11/24/14 18:01	1
Chloromethane	ND		0.50		ppb v/v			11/24/14 18:01	1
cis-1,2-Dichloroethene	ND		0.20		ppb v/v			11/24/14 18:01	1
cis-1,3-Dichloropropene	ND		0.20		ppb v/v			11/24/14 18:01	1
Dichlorodifluoromethane	ND		0.20		ppb v/v			11/24/14 18:01	1
Ethylbenzene	ND		0.20		ppb v/v			11/24/14 18:01	1
Hexachlorobutadiene	ND		1.0		ppb v/v			11/24/14 18:01	1
Methyl tert-butyl ether	ND		1.0		ppb v/v			11/24/14 18:01	1
Methylene Chloride	ND		0.50		ppb v/v			11/24/14 18:01	1
m-Xylene & p-Xylene	ND		0.20		ppb v/v			11/24/14 18:01	1
Naphthalene	ND		0.50		ppb v/v			11/24/14 18:01	1
o-Xylene	ND		0.20		ppb v/v			11/24/14 18:01	1
Styrene	ND		0.20		ppb v/v			11/24/14 18:01	1
Tetrachloroethene	ND		0.20		ppb v/v			11/24/14 18:01	1
Toluene	ND		0.20		ppb v/v			11/24/14 18:01	1
trans-1,3-Dichloropropene	ND		0.20		ppb v/v			11/24/14 18:01	1
Trichloroethene	ND		0.20		ppb v/v			11/24/14 18:01	1
Trichlorofluoromethane	ND		0.20		ppb v/v			11/24/14 18:01	1
Vinyl chloride	ND		0.20		ppb v/v			11/24/14 18:01	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1		ug/m3			11/24/14 18:01	1
1,1,2,2-Tetrachloroethane	ND		1.4		ug/m3			11/24/14 18:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5		ug/m3			11/24/14 18:01	1
1,1,2-Trichloroethane	ND		1.1		ug/m3			11/24/14 18:01	1
1,1-Dichloroethane	ND		0.81		ug/m3			11/24/14 18:01	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-1963/7
Matrix: Air
Analysis Batch: 1963

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.79		ug/m3			11/24/14 18:01	1
1,2,4-Trichlorobenzene	ND		7.4		ug/m3			11/24/14 18:01	1
1,2,4-Trimethylbenzene	ND		0.98		ug/m3			11/24/14 18:01	1
1,2-Dibromoethane (EDB)	ND		1.5		ug/m3			11/24/14 18:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4		ug/m3			11/24/14 18:01	1
1,2-Dichlorobenzene	ND		1.2		ug/m3			11/24/14 18:01	1
1,2-Dichloroethane	ND		0.81		ug/m3			11/24/14 18:01	1
1,2-Dichloropropane	ND		0.92		ug/m3			11/24/14 18:01	1
1,3,5-Trimethylbenzene	ND		0.98		ug/m3			11/24/14 18:01	1
1,3-Dichlorobenzene	ND		1.2		ug/m3			11/24/14 18:01	1
1,4-Dichlorobenzene	ND		1.2		ug/m3			11/24/14 18:01	1
Benzene	ND		0.64		ug/m3			11/24/14 18:01	1
Benzyl chloride	ND		2.1		ug/m3			11/24/14 18:01	1
Bromomethane	ND		0.78		ug/m3			11/24/14 18:01	1
Carbon tetrachloride	ND		1.3		ug/m3			11/24/14 18:01	1
Chlorobenzene	ND		0.92		ug/m3			11/24/14 18:01	1
Chloroethane	ND		0.53		ug/m3			11/24/14 18:01	1
Chloroform	ND		0.98		ug/m3			11/24/14 18:01	1
Chloromethane	ND		1.0		ug/m3			11/24/14 18:01	1
cis-1,2-Dichloroethene	ND		0.79		ug/m3			11/24/14 18:01	1
cis-1,3-Dichloropropene	ND		0.91		ug/m3			11/24/14 18:01	1
Dichlorodifluoromethane	ND		0.99		ug/m3			11/24/14 18:01	1
Ethylbenzene	ND		0.87		ug/m3			11/24/14 18:01	1
Hexachlorobutadiene	ND		11		ug/m3			11/24/14 18:01	1
Methyl tert-butyl ether	ND		3.6		ug/m3			11/24/14 18:01	1
Methylene Chloride	ND		1.7		ug/m3			11/24/14 18:01	1
m-Xylene & p-Xylene	ND		0.87		ug/m3			11/24/14 18:01	1
Naphthalene	ND		2.6		ug/m3			11/24/14 18:01	1
o-Xylene	ND		0.87		ug/m3			11/24/14 18:01	1
Styrene	ND		0.85		ug/m3			11/24/14 18:01	1
Tetrachloroethene	ND		1.4		ug/m3			11/24/14 18:01	1
Toluene	ND		0.75		ug/m3			11/24/14 18:01	1
trans-1,3-Dichloropropene	ND		0.91		ug/m3			11/24/14 18:01	1
Trichloroethene	ND		1.1		ug/m3			11/24/14 18:01	1
Trichlorofluoromethane	ND		1.1		ug/m3			11/24/14 18:01	1
Vinyl chloride	ND		0.51		ug/m3			11/24/14 18:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*11/24/14 18:01*	*1*

Lab Sample ID: LCS 140-1963/1002
Matrix: Air
Analysis Batch: 1963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.17		ppb v/v		108	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.26		ppb v/v		113	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-1963/1002
Matrix: Air
Analysis Batch: 1963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.55		ppb v/v		127	70 - 130
1,1,2-Trichloroethane	2.00	2.10		ppb v/v		105	70 - 130
1,1-Dichloroethane	2.00	2.21		ppb v/v		110	70 - 130
1,1-Dichloroethene	2.00	2.56		ppb v/v		128	70 - 130
1,2,4-Trichlorobenzene	2.00	1.73		ppb v/v		87	60 - 140
1,2,4-Trimethylbenzene	2.00	2.11		ppb v/v		105	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.13		ppb v/v		106	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.04		ppb v/v		102	60 - 140
1,2-Dichlorobenzene	2.00	1.97		ppb v/v		99	70 - 130
1,2-Dichloroethane	2.00	2.06		ppb v/v		103	70 - 130
1,2-Dichloropropane	2.00	2.21		ppb v/v		110	70 - 130
1,3,5-Trimethylbenzene	2.00	2.20		ppb v/v		110	70 - 130
1,3-Dichlorobenzene	2.00	2.09		ppb v/v		104	70 - 130
1,4-Dichlorobenzene	2.00	2.06		ppb v/v		103	70 - 130
Benzene	2.00	2.20		ppb v/v		110	70 - 130
Benzyl chloride	2.00	2.10		ppb v/v		105	70 - 130
Bromomethane	2.00	1.83		ppb v/v		91	70 - 130
Carbon tetrachloride	2.00	2.43		ppb v/v		122	70 - 130
Chlorobenzene	2.00	1.99		ppb v/v		99	70 - 130
Chloroethane	2.00	1.80		ppb v/v		90	70 - 130
Chloroform	2.00	2.22		ppb v/v		111	70 - 130
Chloromethane	2.00	2.24		ppb v/v		112	60 - 140
cis-1,2-Dichloroethene	2.00	2.42		ppb v/v		121	70 - 130
cis-1,3-Dichloropropene	2.00	2.10		ppb v/v		105	70 - 130
Dichlorodifluoromethane	2.00	2.11		ppb v/v		106	60 - 140
Ethylbenzene	2.00	2.10		ppb v/v		105	70 - 130
Hexachlorobutadiene	2.00	2.49		ppb v/v		124	60 - 140
Methyl tert-butyl ether	2.00	2.14		ppb v/v		107	60 - 140
Methylene Chloride	2.00	2.44		ppb v/v		122	70 - 130
m-Xylene & p-Xylene	4.00	4.11		ppb v/v		103	70 - 130
Naphthalene	2.00	1.97		ppb v/v		98	40 - 140
o-Xylene	2.00	2.06		ppb v/v		103	70 - 130
Styrene	2.00	2.23		ppb v/v		111	70 - 130
Tetrachloroethene	2.00	1.97		ppb v/v		98	70 - 130
Toluene	2.00	2.17		ppb v/v		109	70 - 130
trans-1,3-Dichloropropene	2.00	1.91		ppb v/v		95	70 - 130
Trichloroethene	2.00	2.09		ppb v/v		104	70 - 130
Trichlorofluoromethane	2.00	2.14		ppb v/v		107	60 - 140
Vinyl chloride	2.00	2.01		ppb v/v		100	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	11.8		ug/m3		108	70 - 130
1,1,2,2-Tetrachloroethane	14	15.5		ug/m3		113	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	19.5		ug/m3		127	70 - 130
1,1,2-Trichloroethane	11	11.4		ug/m3		105	70 - 130
1,1-Dichloroethane	8.1	8.93		ug/m3		110	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-1963/1002
Matrix: Air
Analysis Batch: 1963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	7.9	10.2		ug/m3		128	70 - 130
1,2,4-Trichlorobenzene	15	12.9		ug/m3		87	60 - 140
1,2,4-Trimethylbenzene	9.8	10.4		ug/m3		105	70 - 130
1,2-Dibromoethane (EDB)	15	16.3		ug/m3		106	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	14.3		ug/m3		102	60 - 140
1,2-Dichlorobenzene	12	11.9		ug/m3		99	70 - 130
1,2-Dichloroethane	8.1	8.32		ug/m3		103	70 - 130
1,2-Dichloropropane	9.2	10.2		ug/m3		110	70 - 130
1,3,5-Trimethylbenzene	9.8	10.8		ug/m3		110	70 - 130
1,3-Dichlorobenzene	12	12.5		ug/m3		104	70 - 130
1,4-Dichlorobenzene	12	12.4		ug/m3		103	70 - 130
Benzene	6.4	7.04		ug/m3		110	70 - 130
Benzyl chloride	10	10.9		ug/m3		105	70 - 130
Bromomethane	7.8	7.10		ug/m3		91	70 - 130
Carbon tetrachloride	13	15.3		ug/m3		122	70 - 130
Chlorobenzene	9.2	9.15		ug/m3		99	70 - 130
Chloroethane	5.3	4.76		ug/m3		90	70 - 130
Chloroform	9.8	10.9		ug/m3		111	70 - 130
Chloromethane	4.1	4.62		ug/m3		112	60 - 140
cis-1,2-Dichloroethene	7.9	9.60		ug/m3		121	70 - 130
cis-1,3-Dichloropropene	9.1	9.51		ug/m3		105	70 - 130
Dichlorodifluoromethane	9.9	10.5		ug/m3		106	60 - 140
Ethylbenzene	8.7	9.14		ug/m3		105	70 - 130
Hexachlorobutadiene	21	26.5		ug/m3		124	60 - 140
Methyl tert-butyl ether	7.2	7.72		ug/m3		107	60 - 140
Methylene Chloride	7.0	8.47		ug/m3		122	70 - 130
m-Xylene & p-Xylene	17	17.8		ug/m3		103	70 - 130
Naphthalene	10	10.3		ug/m3		98	40 - 140
o-Xylene	8.7	8.94		ug/m3		103	70 - 130
Styrene	8.5	9.50		ug/m3		111	70 - 130
Tetrachloroethene	14	13.4		ug/m3		98	70 - 130
Toluene	7.5	8.18		ug/m3		109	70 - 130
trans-1,3-Dichloropropene	9.1	8.66		ug/m3		95	70 - 130
Trichloroethene	11	11.2		ug/m3		104	70 - 130
Trichlorofluoromethane	11	12.0		ug/m3		107	60 - 140
Vinyl chloride	5.1	5.13		ug/m3		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*

QC Association Summary

Client: Woodard & Curran Inc
Project/Site: Fashion Care - 226203.00

TestAmerica Job ID: 140-2355-1

Air - GC/MS VOA

Analysis Batch: 1963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-2355-1	SV-1	Total/NA	Air	TO-15	
140-2355-2	SV-2	Total/NA	Air	TO-15	
140-2355-3	SV-3	Total/NA	Air	TO-15	
LCS 140-1963/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-1963/7	Method Blank	Total/NA	Air	TO-15	

Lab Chronicle

Client: Woodard & Curran Inc
Project/Site: Fashion Care - 226203.00

TestAmerica Job ID: 140-2355-1

Client Sample ID: SV-1

Lab Sample ID: 140-2355-1
Matrix: Air
Date Collected: 11/19/14 16:18
Date Received: 11/21/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	20 mL	500 mL	1963	11/25/14 02:08	HMT	TAL KNX
	Instrument ID: MG									

Client Sample ID: SV-2

Lab Sample ID: 140-2355-2
Matrix: Air
Date Collected: 11/19/14 16:25
Date Received: 11/21/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	20 mL	500 mL	1963	11/25/14 02:50	HMT	TAL KNX
	Instrument ID: MG									

Client Sample ID: SV-3

Lab Sample ID: 140-2355-3
Matrix: Air
Date Collected: 11/19/14 17:08
Date Received: 11/21/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	20 mL	500 mL	1963	11/25/14 03:33	HMT	TAL KNX
	Instrument ID: MG									

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Certification Summary

Client: Woodard & Curran Inc
Project/Site: Fashion Care - 226203.00

TestAmerica Job ID: 140-2355-1

Laboratory: TestAmerica Knoxville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		N/A	
Arkansas DEQ	State Program	6	88-0688	06-17-15
California	State Program	9	2423	06-30-16
Colorado	State Program	8	N/A	02-28-15
Connecticut	State Program	1	PH-0223	09-30-15
Florida	NELAP	4	E87177	06-30-15
Georgia	State Program	4	906	04-13-17
Hawaii	State Program	9	N/A	04-13-15
Kansas	NELAP	7	E-10349	01-31-15
Kentucky (DW)	State Program	4	90101	12-31-14
L-A-B	DoD ELAP		L2311	02-13-16
Louisiana	NELAP	6	LA110001	12-31-15
Maryland	State Program	3	277	03-31-15
Michigan	State Program	5	9933	04-13-17
Nevada	State Program	9	TN00009	07-31-15
New Jersey	NELAP	2	TN001	06-30-15
New York	NELAP	2	10781	03-31-15
North Carolina (DW)	State Program	4	21705	07-31-15
Ohio VAP	State Program	5	CL0059	03-26-15
Oklahoma	State Program	6	9415	08-31-15
Pennsylvania	NELAP	3	68-00576	12-31-14
South Carolina	State Program	4	84001	06-30-15
Tennessee	State Program	4	2014	04-13-17
Texas	NELAP	6	T104704380-TX	08-31-15
USDA	Federal		P330-13-00260	08-29-16
Utah	NELAP	8	QUAN3	07-31-15
Virginia	NELAP	3	460176	09-14-15
Virginia	State Program	3	165	06-30-15
Washington	State Program	10	C593	01-19-15
West Virginia (DW)	State Program	3	9955C	12-31-14
West Virginia DEP	State Program	3	345	04-30-15
Wisconsin	State Program	5	998044300	08-31-15

Method Summary

Client: Woodard & Curran Inc
Project/Site: Fashion Care - 226203.00

TestAmerica Job ID: 140-2355-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: Woodard & Curran Inc
Project/Site: Fashion Care - 226203.00

TestAmerica Job ID: 140-2355-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-2355-1	SV-1	Air	11/19/14 16:18	11/21/14 09:10
140-2355-2	SV-2	Air	11/19/14 16:25	11/21/14 09:10
140-2355-3	SV-3	Air	11/19/14 17:08	11/21/14 09:10

Login Sample Receipt Checklist

Client: Woodard & Curran Inc

Job Number: 140-2355-1

Login Number: 2355
List Number: 1
Creator: Wilson, Ken

List Source: TestAmerica Knoxville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	This is checked in the lab.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica Knoxville - Air Canister Initial Pressure Check

Gauge ID: G1

Analyst	Date	Sample ID	6 L	1 L	Pressure @ Receipt (-in Hg or +psig)	Time	Comments
AFB	11/21/2014	140-2355-a-1	X		-2.5	1717	
AFB	11/21/2014	140-2355-a-2	X		-1.5	1718	
AFB	11/21/2014	140-2355-a-3	X		-1.2	1719	

Appendix B
Contaminant Transport Modeling Report

Contaminant Transport Modeling Report

Fashion Care/Executive Care Site
HSI No. 10786
2211 Savoy Drive,
Chamblee,
DeKalb County,
Georgia

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
888-239-6279

226203.00
John F. Rowan, Sr.,
Item IV Trust
Carmel Valley, CA

December 19, 2014

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

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1. INTRODUCTION

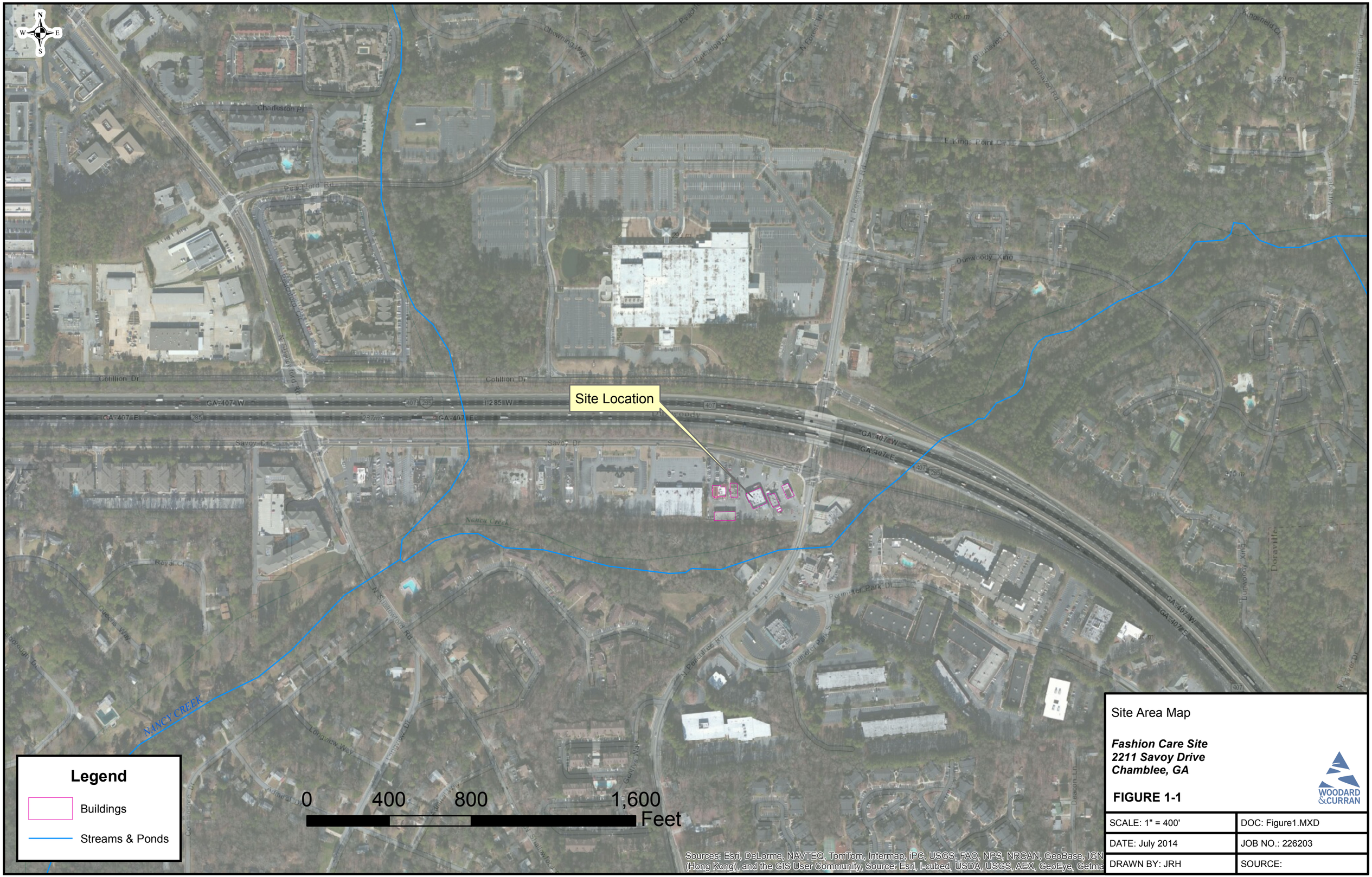
1.1 PROJECT BACKGROUND

This report details chemical fate and transport modeling for volatile organic compounds (VOCs) at the Fashion Care Voluntary Remediation Program (VRP) Site in Chamblee, Georgia. The Site area is depicted on Figure 1-1. This Site consists of an active dry cleaner and adjoining vacant space. Adjacent properties include a gas station/car wash, dental office, and various retail stores. All of these properties are located on the south side of I-285 and north of Nancy Creek and in total consist of approximately 12.3 acres of land. A dry-cleaning operation has been located at the Site since the buildings were constructed during the 1960's (Winter Environmental, 2010).The drycleaner location was the site of an historical release of tetrachloroethylene (PCE) that was subject to past corrective actions no longer on-going. Residual PCE and its daughter products are present in soil and groundwater and downgradient of the Site. The adjacent gas station was the site of a release of gasoline to the subsurface from underground storage tanks (UST) which comingled with the PCE plume at the Site (Winter Environmental, 2010).

Multiple phases of investigation by multiple contractors began with an investigation of Site soils in 2006. Additional investigation of Site soils occurred in 2007. A comprehensive investigation of Site soils, groundwater, and surface water began in 2008. Soil remediation efforts consisting of sodium persulfate injection in the presumed source area and sealing of potential pathways were conducted in 2009. Since that time, supplemental well installations, soil borings, and hydrogeological investigations have been conducted. This report summarizes pertinent information from the various investigations for the purposes of modeling fate and transport of Site-related constituents in groundwater and surface water.

1.2 REPORT ORGANIZATION

This report consists of a cursory review of project background data and site conceptual model in Section 2. Section 3 provides a discussion of the construction and benchmarking of the model used at the Site. Section 4 presents the results of the modeling. Section 5 provides a brief summary and recommendations for the Site based on the modeling efforts completed for the Site.



Site Area Map

Fashion Care Site
2211 Savoy Drive
Chamblee, GA

FIGURE 1-1

WOODARD &CURRAN

SCALE: 1" = 400'	DOC: Figure1.MXD
DATE: July 2014	JOB NO.: 226203
DRAWN BY: JRH	SOURCE:

2. CONCEPTUAL SITE MODEL AND PROJECT DATA SUMMARY

This section discusses the conceptual site model (CSM) and project data used in the evaluation and fate and transport modeling of Site-related contaminants. The CSM is discussed in Section 2.1. Data used to support the modeling efforts is summarized in Section 2.2.

2.1 SITE CONCEPTUAL MODEL

The basic CSM for the Site is summarized in Figure 2-1. The residual Site-related VOCs in soil are depicted beneath the Fashion Care building and the paved area adjacent to the building. It has been conservatively assumed that this residual soil contamination is subjected to a limited amount (owing to the predominance of impervious surfaces in the area) of infiltration from the surface and from fluctuations in the water table that likely periodically wet portions of the soil column allowing dissolution to occur. This dissolves additional contaminants which then migrate within groundwater in the sandy silt and clayey silt perched atop the dry silt, ultimately discharging to Nancy Creek.

2.2 SITE DATA SUMMARY

The data used to construct and benchmark the fate and transport model for the Site comes from previous reports for the Site. The data pertinent to the modeling efforts for the Site are as follows:

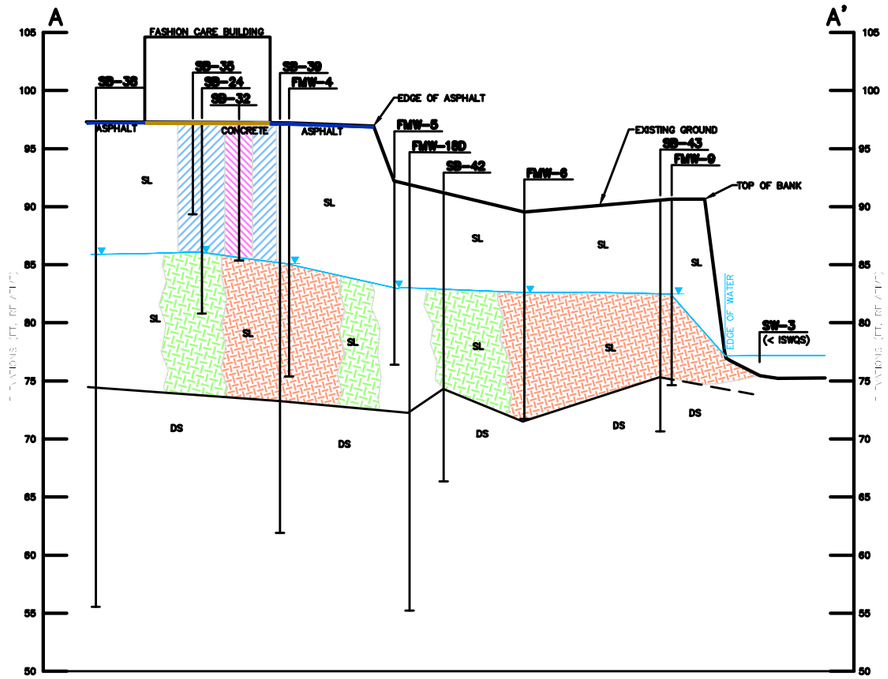
- Hydrogeologic properties of the sandy silt/clayey silt;
- Overburden thickness above dense, dry silt;
- Groundwater levels across the Site,
- Nancy Creek surface water elevations and flow data (as available);
- The current distribution of VOCs in soil and groundwater across the Site.

Each of these data types and available information for the Site is summarized below.

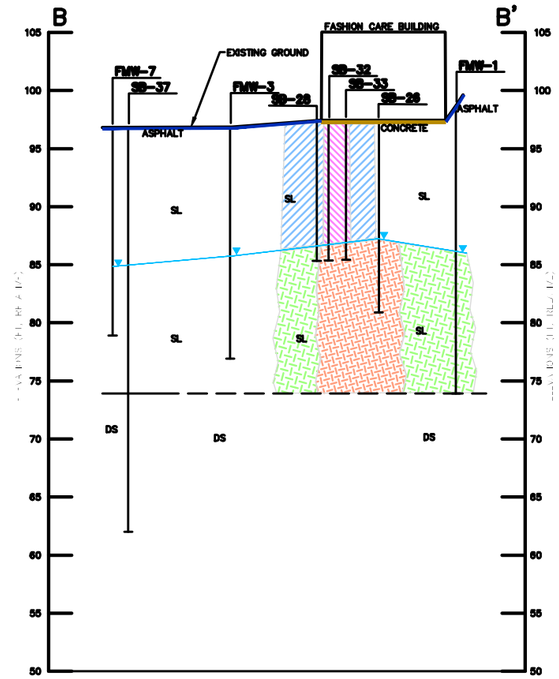
2.2.1 Hydrogeologic Site Data

The groundwater gradients across the Site are based on water level monitoring completed during groundwater sampling mobilizations to the Site. Figure 2-2 provides a plot of groundwater potentiometric surface from the April 2014 monitoring round. The head during this sampling round varied across the Site between approximately 4 to 5 feet. The gradients appear to be steeper near the developed areas and flatten closer to Nancy Creek. The gradients vary between approximately 0.0056 ft/ft and 0.032 ft/ft based on elevations measured in April of 2014.

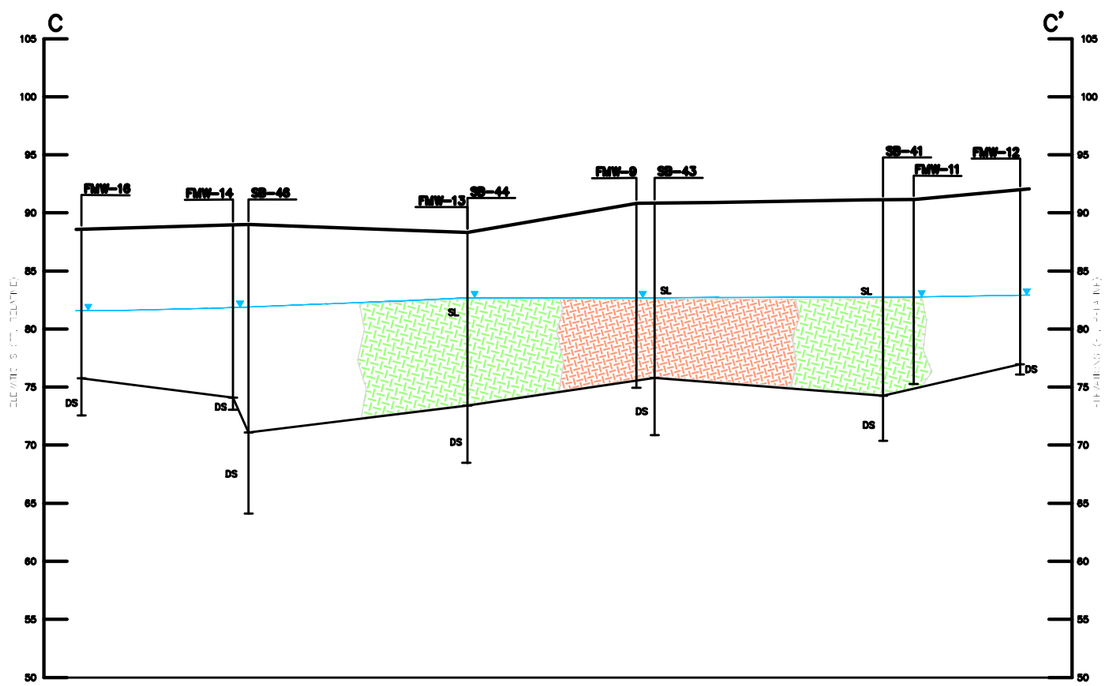
Hydrogeologic properties of interest for flow and transport modeling include hydraulic conductivity and effective porosity. The hydraulic conductivity values used in the modeling efforts for the Site were obtained from recently completed and previous slug testing performed on Site wells. Historic slug testing indicated that hydraulic conductivity at the Site ranges from approximately 10 to 27 ft/day. The more recent data indicated a range from 0.45 to 57 ft/day. The data from these slug tests are summarized in Table 2-1. Data and analyses are for slug tests completed in September of 2014 and are provided in Appendix A. Effective porosity for the Site is most likely dependent



CROSS SECTION A–A'
(LOOKING EAST)



CROSS SECTION B–B'
(LOOKING NORTH)



CROSS SECTION C–C'
(LOOKING NORTH)

NOTES

1. EXTENT OF SOIL IMPACTS BASED ON FIGURE 1 OF THE FINAL ISCR FOR PARCEL 16-7435-02-2 FILED IN JUNE 2014.
2. EXTENT OF GROUNDWATER IMPACTS BASED ON FIGURE 4 IN THE JULY 2014 ANNUAL STATUS REPORT SAMPLES COLLECTED IN APRIL 2014.
3. CROSS-SECTION LOCATIONS ARE DEPICTED ON FIGURE 1.
4. STRATIGRAPHIC DATA/INFORMATION INTERPRETED FROM SOIL BORING LOGS, THE BORING LOGS AND RELATED INFORMATION PRESENTED SUBSURFACE CONDITIONS ONLY AT SPECIFIC LOCATIONS. SOIL CONDITIONS AT OTHER LOCATIONS MAY DIFFER FROM CONDITIONS OCCURRING AT THESE BORING LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN ALTERATION IN THE CONDITIONS AT THESE BORING LOCATIONS.

LEGEND

- SL — SILT-SANDY SILT-CLAYEY SILT
- DS — DENSE SOIL
- GROUNDWATER LEVEL(7-28-14)
- SOIL CONCENTRATIONS > TYPE 3/4 RRS
- SOIL CONCENTRATIONS > TYPE 1 STANDARD
- GROUNDWATER CONCENTRATIONS > TYPE 1/2 RRS
- GROUNDWATER CONCENTRATIONS > TYPE 1 STANDARD

HORIZONTAL SCALE
50 0 50 100

VERTICAL SCALE
5 0 5 10 FEET

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REV	DESCRIPTION	DATE

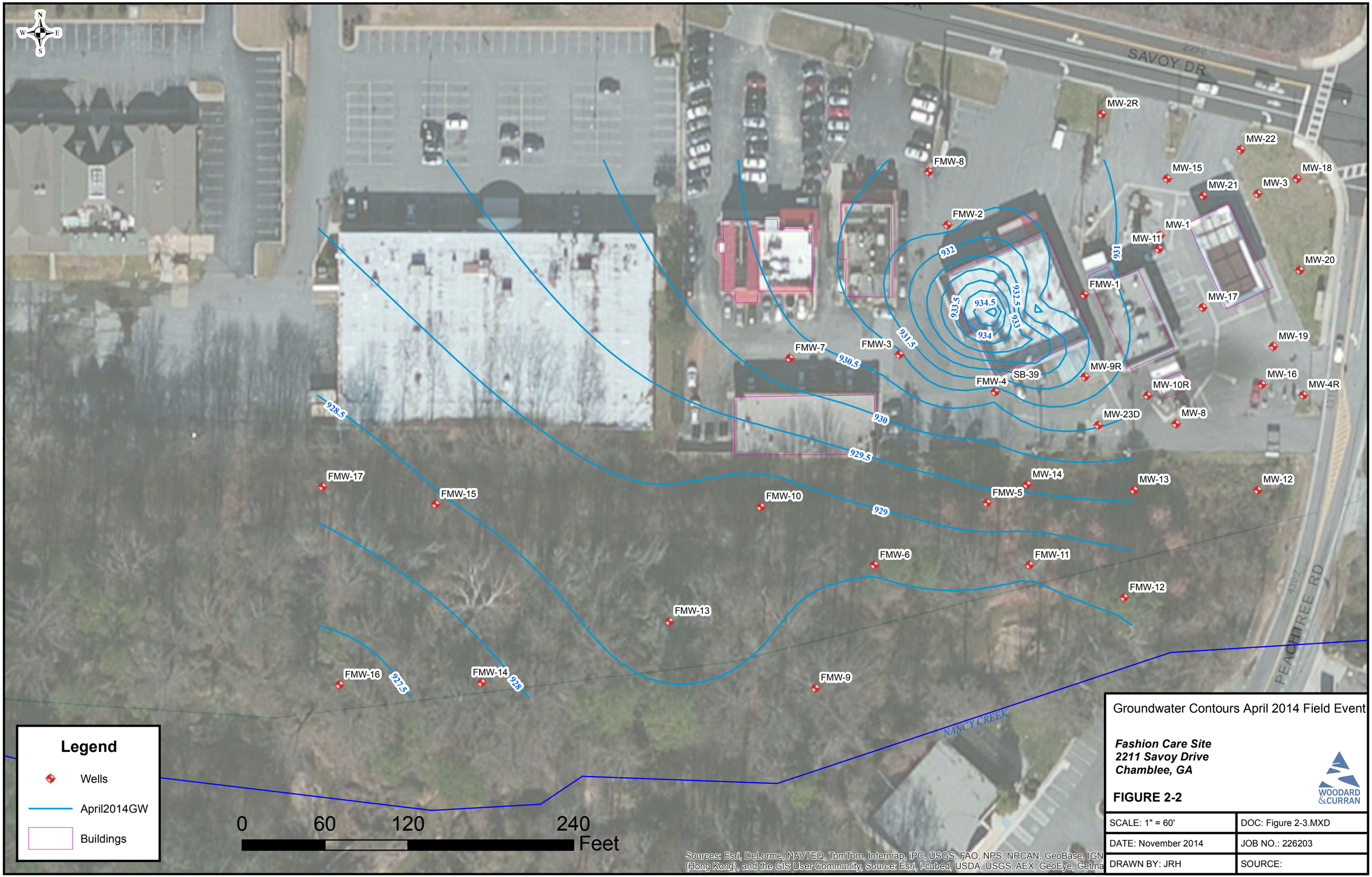
DESIGNED BY: LJD
DRAWN BY: DJM
CHECKED BY: BRM
CROSS-SECTIONS

FIGURE 2-1
CONCEPTUAL SITE MODEL

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GEORGIA

VRP STATUS REPORT

JOB NO.: 226203
DATE: DECEMBER 2014
SCALE:
SHEET: OF



Groundwater Contours April 2014 Field Event

Fashion Care Site
2211 Savoy Drive
Chamblee, GA

FIGURE 2-2

WOODARD &CURRAN

SCALE: 1" = 60'	DOC: Figure 2-3.MXD
DATE: November 2014	JOB NO.: 226203
DRAWN BY: JRH	SOURCE:

on the relative percentages of fines in the perched aquifer. There are no direct tests of effective porosity for the Site so an estimated effective porosity of 10% was assumed given the predominance of fines in the soil (Kresic, 1997)

Table 2-1: Slug Testing Summary

Well ID	Slug-In	Slug-Out	Notes
	K (ft/day)	K(ft/day)	
FMW-1	0.58	0.45	2014 Testing
FMW-4	20	9.9	Historic Testing
FMW-5	9.9	3.7	2014 Testing
FMW-5	17	27	Historic Testing
FMW-9	57	7.2	2014 Testing

The overburden thickness above dense, dry silt was mapped based on observations made in soil borings across the Site. The overburden thickness values assigned to each boring were then interpolated by kriging the values. The resulting thickness map is provided in Figure 2-3. The overburden thickness was subtracted from publicly available surface elevation data to obtain the bottom of the perched aquifer.

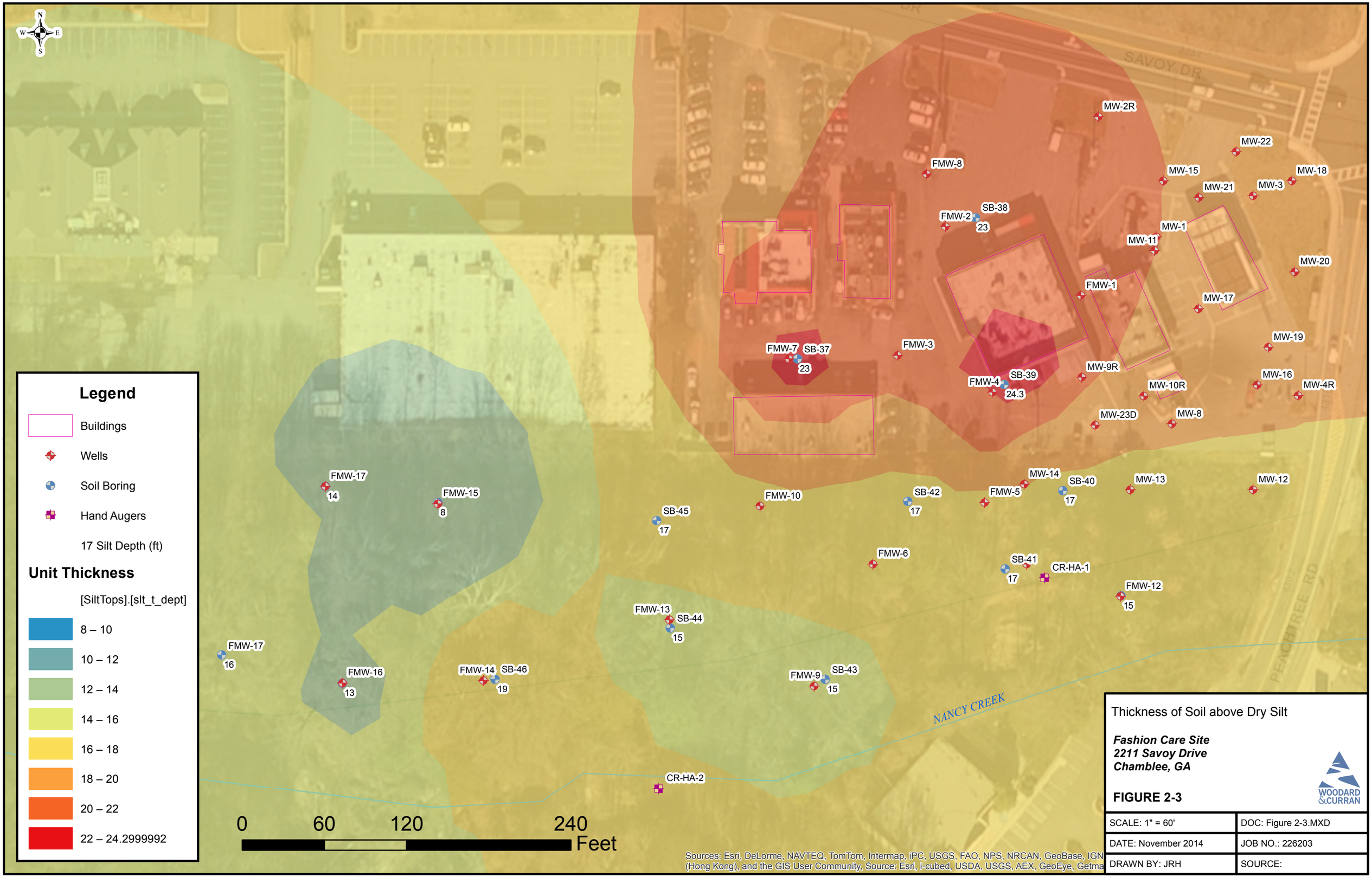
In addition to the overburden thickness above the dense, dry slit, Woodard & Curran personnel completed hand auger explorations in Nancy Creek to investigate the creek bottom. The objective of these explorations was to evaluate the potential for the creek to have eroded through the dry silt and expose bedrock in or immediately below the creek in the Site area. Locations were selected relative to the area where the groundwater plume enters the creek, and were the stream bottom was an erosional surface, not an area of sedimentation. This enabled accurate identification of the creek bed lithology. Two hand auger explorations were completed, CK-HA-1 and CK-HA-2. These locations are depicted in Figure 2-3. The CK-HA-1 location is in a bend of the creek adjacent to SB-41 and FMW-11. The CK-HA-2 location is located approximately 200 feet downstream of SB-43 and FMW-9. The hand augers penetrated to approximately 2.5 feet below the bed of the creek at which point the auger boring was terminated due to inability to further penetrate the creek bed. In both borings, grey, clayey silt was encountered. The grey clayey silt in CK-HA-1 was approximately 1.5 feet thick and was underlain by 0.5 feet of reddish-brown, poorly sorted, coarse sand and pebbles. In auger boring CK-HA-2, the grey, clayey silt, was encountered to a depth of 1.5 feet below the creek bottom at which point the boring was terminated. Based on comparison with the nearest soil borings, each boring terminated in the red to brown to grey silt located stratigraphically above the dense, dry silt which serves as the lower confining layer for the upper saturated zone through which the plume migrates. Nancy Creek at the Site is located in this upper saturated unit and has not eroded through the dense, dry silt, and does not intersect the bedrock. Appendix B provides the hand auger logs and correlation sections with adjacent borings. Photographs of the boring locations and lithology are also provided in Appendix B.

2.2.2 Surface Water Site Data and Recharge Estimates

Nancy Creek surface water elevations were taken from the data collected during Site groundwater monitoring. The differences between upstream station and downstream station elevations were used to model the surface water body and its relationship to the groundwater flow system. Surface water elevations, where available, are provided in Table 2-2 along with available groundwater elevations. The 7Q10 flow for the area where groundwater from the Site discharges to Nancy Creek has been calculated by the Georgia Environmental Protection Division (EPD) to be 3 cubic feet/second (CFS) (GAEPD, 2010).

Stream statistics from the United States Geological Survey (USGS) are available for Nancy Creek at Randall Mill Road (USGS Station ID 2336380) indicate a baseflow on the order of 10 to 18 CFS. The drainage basin size at the

Randall Mill Road gauging station is approximately 34.8 square miles. This yields a general recharge range of between 2.6 to 4.1 inches/year.



Thickness of Soil above Dry Silt

Fashion Care Site
2211 Savoy Drive
Chamblee, GA

FIGURE 2-3

WOODARD &CURRAN

SCALE: 1" = 60'	DOC: Figure 2-3.MXD
DATE: November 2014	JOB NO.: 226203
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Table 2-2

Groundwater and Surface Water Elevation Data

Fashion Care/Executive Care VRP Site (HSI# 10786)

Well ID	Top of Casing Elevation (ft sd)	09/04/08	12/1-3/2008	03/19/10	04/07/10	07/10/12	04/01/14	Average Groundwater Elevation (ft sd)	Feet Above SG-1	Adjusted Elevation (ft msl)	Max. Groundwater Fluctuation (ft)	Lowest Groundwater Elevation		Highest Groundwater Elevation	
		Groundwater Elevation (ft sd)	Groundwater Elevation (ft sd)	Groundwater Elevation (ft sd)	Groundwater Elevation (ft sd)	Groundwater Elevation (ft sd)	Groundwater Elevation (ft sd)					bgs	ft sd	bgs	ft sd
FMW-1	98.92	83.87	84.01	87.82		83.62	85.87	85.04	1.85	930.31	4.20	15.30	83.62	11.10	87.82
FMW-10	92.85		82.61	83.49		82.15	83.40	82.91	0.28	928.18	1.34	10.70	82.15	9.36	83.49
FMW-11	94.40		82.75	83.37		82.39	83.30	82.95	0.24	928.22	0.98	12.01	82.39	11.03	83.37
FMW-12	95.90			83.35	83.27	83.01	83.32	83.24	0.05	928.51	0.34	12.89	83.01	12.55	83.35
FMW-13	92.05			83.77		82.13	83.60	83.17	0.02	928.44	1.64	9.92	82.13	8.28	83.77
FMW-14	92.03					81.15	82.57	81.86	1.33	927.13	1.42	10.88	81.15	9.46	82.57
FMW-15	92.10					80.95	83.18	82.07	1.13	927.34	2.23	11.15	80.95	8.92	83.18
FMW-16	91.32					80.57	81.94	81.26	1.94	926.53	1.37	10.75	80.57	9.38	81.94
FMW-17	91.90						82.90	82.90	0.29	928.17					
FMW-2	97.07	83.80	83.98	87.92		83.62	85.99	85.06	1.87	930.33	4.30	13.45	83.62	9.15	87.92
FMW-3	96.96	83.62	83.61	86.42		83.81	85.60	84.61	1.42	929.88	2.81	13.35	83.61	10.54	86.42
FMW-4	97.11	83.52	83.70	86.16		83.31	85.36	84.41	1.22	929.68	2.85	13.80	83.31	10.95	86.16
FMW-5	95.40	82.55	82.84	83.71		82.40	84.10	83.12	0.07	928.39	1.70	13.00	82.40	11.30	84.10
FMW-6	93.12	82.44	82.73	83.47		82.24	83.27	82.83	0.36	928.10	1.23	10.88	82.24	9.65	83.47
FMW-7	96.81		83.49	85.61		83.21	85.06	84.34	1.15	929.61	2.40	13.60	83.21	11.20	85.61
FMW-8	97.40		84.95	86.98		83.50	85.85	85.32	2.13	930.59	3.48	13.90	83.50	10.42	86.98
FMW-9	94.07		82.63	83.18	84.99	82.37	83.05	83.24	0.05	928.51	0.81	11.70	82.37	10.89	83.18
MW-1	98.51	82.71	82.42	88.60		-	-	84.58	1.39	929.85	6.18				
MW-11	98.77		84.06	87.27		-	-	85.67	2.47	930.94	3.21				
MW-12	97.52		84.09	84.77		-	-	84.43	1.24	929.70	0.68				
MW-13	96.49		82.75	83.69		-	-	83.22	0.03	928.49	0.94				
MW-14	96.59		82.78	83.84		-	-	83.31	0.12	928.58	1.06				
MW-15	98.91		84.70	88.94		-	-	86.82	3.63	932.09	4.24				
MW-16	98.54		85.00	89.39		-	-	87.20	4.01	932.47	4.39				
MW-18	96.68		84.27	85.58		-	-	84.93	1.74	930.20	1.31				
MW-19	97.31		84.35	85.76		-	-	85.06	1.87	930.33	1.41				
MW-20	97.86		84.42	86.84		-	-	85.63	2.44	930.90	2.42				
MW-21	99.00		84.66	88.88		-	-	86.77	3.58	932.04	4.22				
MW-22	99.48		84.84	89.24		-	-	87.04	3.85	932.31	4.40				
MW-23D	96.13		83.34	85.01		-	-	84.18	0.98	929.45	1.67				
MW-2R	98.38	84.55	84.88	89.32		-	-	86.25	3.06	931.52	4.77				
MW-3	98.56	84.64	84.87	89.26		-	-	86.26	3.07	931.53	4.62				
MW-4R	96.72	84.10	84.27	85.57		-	-	84.65	1.46	929.92	1.47				
MW-8	96.62	83.08	83.31	84.64		-	-	83.68	0.49	928.95	1.56				
MW-9R	97.11	83.23	83.46	85.36		-	-	84.02	0.83	929.29	2.13				
SB-24	98.56	84.06	-	87.45		83.86	90.24	86.40	3.21	931.67	6.38	14.70	83.86	8.32	90.24
SB-25	98.50		84.12	87.10		83.70	86.06	85.25	2.06	930.52	2.36	14.80	83.70	12.44	86.06
SB-26	98.36	85.19	85.02	86.86		85.51	87.93	86.10	2.91	931.37	2.91	13.34	85.02	10.43	87.93
SG-1	86.84			83.19	3.72					928.46					
SG-2	86.38			82.51	3.94				0.68	927.78					

NOTES:

ft sd, feet relative to site datum.

ft toc, feet below top of casing.

MW-5, MW-6 and MW-7 do not exist

-, denotes no free-phase petroleum was found in the well

NT, measurement not taken

NI, Monitoring well not installed

Abandoned, Wells were abandoned by the EPD UST Program

Lost, Surface water guages lost to storm flow in Nancy Creek.

FMW-14, FMW-15, FMW-16 installed 5/27/10, 6/15/10 and 6/15/10, respectively.

2.2.3 Site VOC Concentrations

Site residual soil VOC concentrations used in the modeling efforts are based on soil data summarized in the report on soil remediation activities completed by Winter Environmental (May 2009). The average soil data was approximately 7.5 mg/kg over and area of approximately 2,100 square feet. The approximate depth to the water table in the source area is 7 feet. At an assumed soil density of 100 pounds per cubic foot, the approximate mass of PCE on soil in the source area is 5,020,860 milligrams or 5,020 grams.

The detection of VOCs in groundwater at the Site includes breakdown products of the degradation of PCE. These detected compounds include trichloroethylene (TCE), cis-1,2 dichlroethylene (cis-1,2 DCE), trans-1,2 dichlorethylene (trans-1,2 DCE), and vinyl chloride (VC). The presence of a gasoline station adjacent to the property and the associated hydrocarbons benzene, toluene, ethylbenzene, and xylene (BTEX) indicates there is the potential for dechlorination of the PCE plume from comingling of this carbon rich source and may have set the stage for associated anaerobic conditions. The presence of higher quantities of DCE indicate that reductive dechlorination is likely occurring at the Site. The minimal detections of VC suggest that either the dechlorination stalls at the DCE stage or VC degradation occurs rapidly via another mechanism such as aerobic degradation. Other studies have indicated that VC can decay rapidly under aerobic conditions (Davis and Carpenter, 1990 and Singh et al., 2004).

Figure 2-4 depicts the total VOC plume in 2008 prior to remediation efforts. The plume extended from the source area near the Site building southward toward Nancy Creek. The plume bends to the west prior to reaching the creek. This bend is likely reflective of the plume encountering materials of greater transmissivity and the influence of the creek on groundwater flow patterns.

Total VOC Plume Configuration
in 2008 Prior to Remediation

Fashion Care Site
2211 Savoy Drive
Chamblee, GA

FIGURE 2-4

WOODARD &CURRAN

SCALE: 1" = 60'	DOC: Figure 2-3.MXD
DATE: November 2014	JOB NO.: 226203
DRAWN BY: JRH	SOURCE:

3. FLOW AND TRANSPORT MODELING

This section discusses the modeling of the soil to groundwater and groundwater flow and transport of Site related VOCs. Section 3.1 briefly describes the simplified modeling of the transfer of soil contamination to the groundwater flow system. Section 3.2 discusses the model selection, construction, and benchmarking of the groundwater flow model.

3.1 SOIL TO GROUNDWATER MODEL

For the purposes of modeling the transfer of contaminant mass to the groundwater system, a simple soil flushing calculation was used. Using the contaminant mass of 5,020,860 milligrams or 5,020 grams as estimated in Section 2.2 and an estimated infiltration rate of 1 inch/year applied over the approximate area of soil impact, the estimated time to reduce the contaminant levels to non-detect values is approximately seven years. The amount of soil contamination released to groundwater was then estimated for each year and used in step-wise fashion as the input to the contaminant transport model discussed in Section 3.2. Calculations regarding this estimation are provided in Appendix C.

3.2 GROUNDWATER FLOW AND TRANSPORT MODEL

The groundwater modeling of flow and contaminant transport for the Site is discussed in the following sections. Section 3.2.1 discusses the model code selection. Section 3.2.2 discusses the groundwater flow model construction, parameter selection, and benchmarking to Site observations. Section 3.2.3 discusses the contaminant transport model, parameter selection, and benchmarking to Site observations.

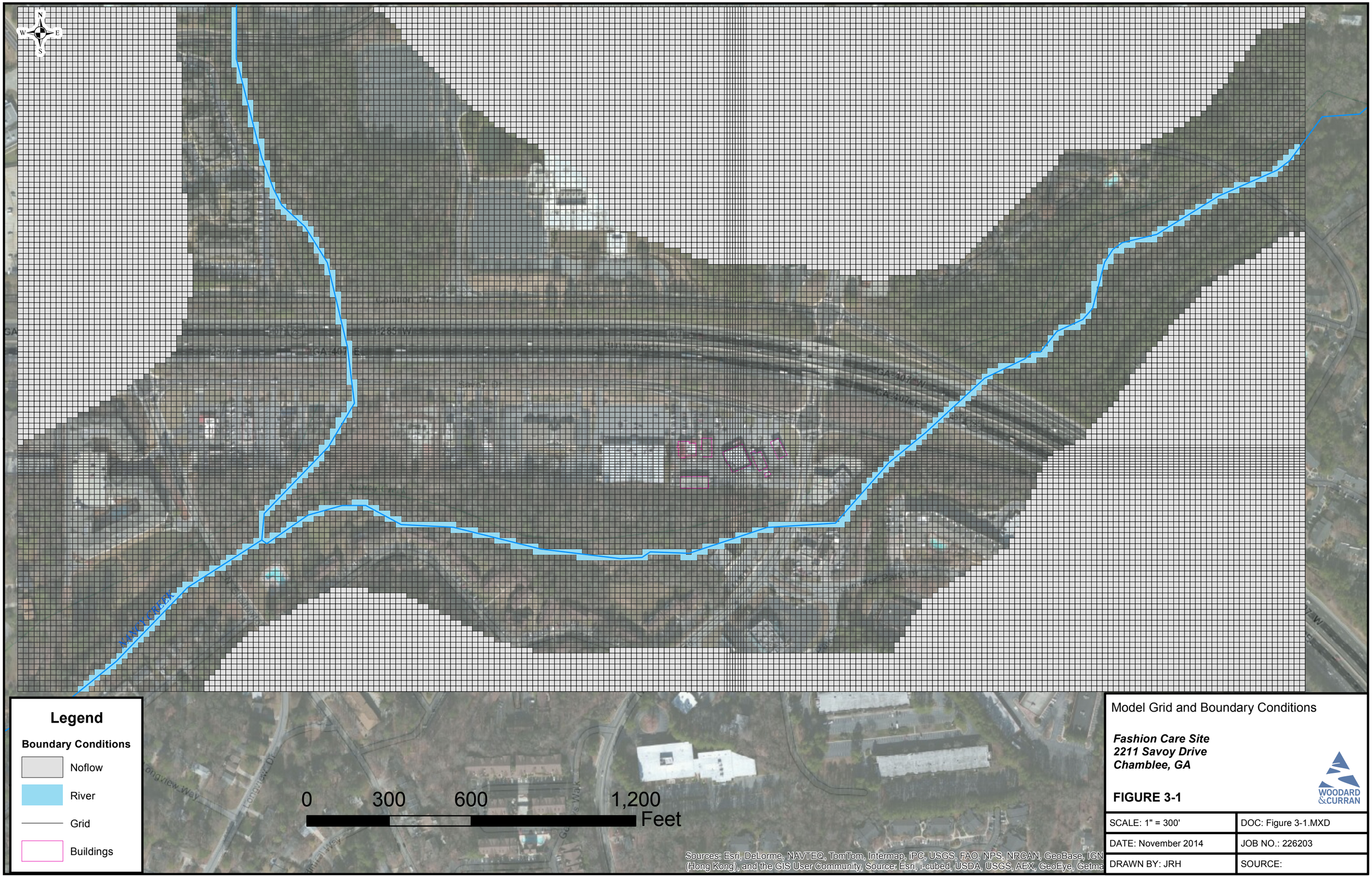
3.2.1 Computer Code Selection

The computer code used to simulate the flow of groundwater at the Site was MODFLOW 2000 (Harbaugh et al, 2000). MODFLOW is an industry standard code for modeling three dimensional groundwater flow and has various packages or modules to handle different aspects of groundwater flow. The computer code used to simulate contaminant transport was MT3DMS (Zheng and Wang, 1999). MT3DMS is a industry standard code for simulating transport of contaminants in three dimensions and uses the outputs from MODFLOW to calculate simulate transport in groundwater. Both codes were implemented using the commercially available Groundwater Vistas graphical user interface (GUI).

3.2.2 Groundwater Flow Model Construction

The construction of the groundwater flow model was based on available Site data for perched aquifer geometry, boundary conditions, and site specific parameters. The model grid and boundary conditions are indicated on Figure 3-1. The model grid was based on a nominal grid spacing of 20 feet by 20 feet. The grid was refined around the source area to a spacing of 10 feet by 10 feet. The boundary conditions used in the model included no-flow and river boundaries. The no-flow boundaries were assigned based on interpretation of presumed groundwater divides based on surface topography or where the upper unit was assumed to be unsaturated at the higher elevations in the model space. Nancy Creek was simulated as a river boundary with elevation values assigned based on surface topography and measured differences in elevations at various Site surface water stations.

Aquifer geometry was assigned based on the depth to the top of the dry silt as discussed in Section 2. The upper limit of the aquifer surface was assumed to be the surface elevation. The bottom of the aquifer was computed by subtracting the overburden thickness from the surface elevation for the entire model space.



Model Grid and Boundary Conditions

Fashion Care Site
2211 Savoy Drive
Chamblee, GA

FIGURE 3-1

WOODARD &CURRAN

SCALE: 1" = 300'	DOC: Figure 3-1.MXD
DATE: November 2014	JOB NO.: 226203
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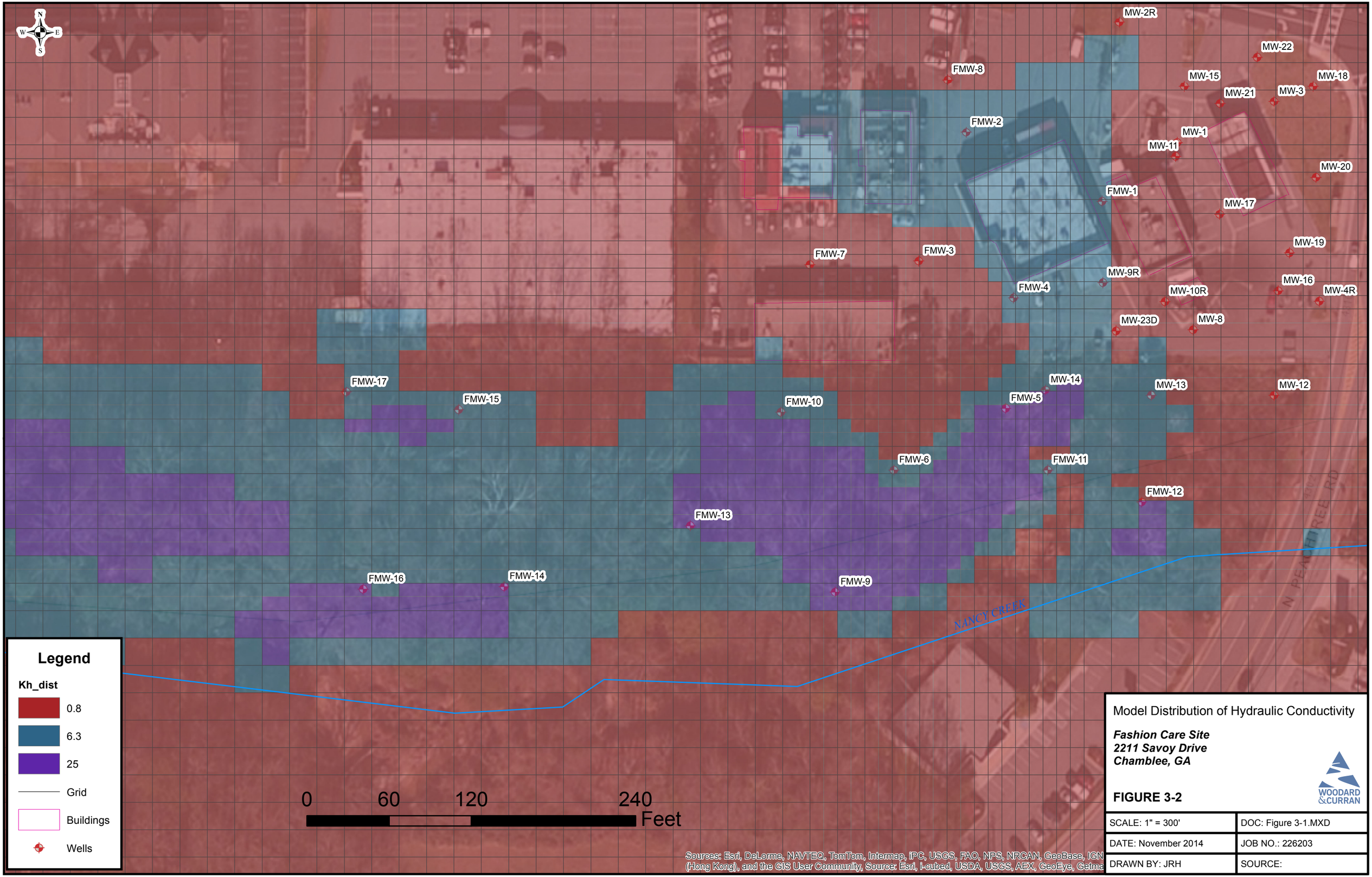
Hydraulic conductivity was varied based on Site values discussed in Section 2.2. Based on benchmarking to Site water levels, two conductivity values were used. A hydraulic conductivity of 0.8 feet/day was used for the majority of the model space and reflects a predominance of silt in much of the model area. A transition value of 6.3 feet/day was assigned to reflect sandier silt present between the sand observed in some Site wells/borings and the finer-grained silt. A higher conductivity value of 25 feet/day was assigned an area near Nancy Creek. This was completed to better match the wider spacing of groundwater contours adjacent to the creek. The lower gradient in this area is indicative of more transmissive soils likely associated with the alluvium along the creek. The distribution of conductivity values is presented in Figure 3-2.

Recharge was assigned based on surface conditions in the area of the Site. Generally, paved areas were conservatively assigned a recharge rate of approximately 1 in/yr or less. Open spaces were set at approximately 4 in/year. Areas with depressions such as ditches and swales along the highways were assigned recharge rates of approximately 7 in/yr. These numbers reflect final adjustments to achieve calibration.

3.2.3 Flow Model Calibration

The groundwater flow model was calibrated to the average of groundwater elevations for the period of record collected at each well. These data were adjusted from the arbitrary Site datum to a representative elevation similar and consistent with the publicly available land surface elevation. This datum adjustment was made by computing the elevation difference between each average groundwater value from the surface water elevation at the surface water station SW-1 on March 19, 2010 (the most complete round of monitoring data for the Site), and then adding that difference to the elevation of SW-1 based on the digital elevation model (DEM). Table 2-1 provided the data for the average groundwater conditions and the adjustment to a site datum consistent with the DEM for the Site area.

Overall, the shape of the contours and the change in head across the Site in the model appears to mimic the observed change in heads and contour shapes. The groundwater model appears to be relatively well benchmarked against Site conditions. The change in modeled head across the Site is approximately 5 feet which agrees with Site observations and gradients similar for both the modeled and observed flow fields. Figure 3-3 depicts the benchmarked flow field. Figure 3-4 provides a graphic depicting modeled heads versus observed heads. The modeled graph depicts a line representing where data would fall if there were perfect agreement between modeled and observed heads. There is generally a good correlation between modeled and observed heads as indicated by the lack of scatter about the line. Table 3-1 provides the modeled versus observed heads as well as calibration statistics. The calibration statistics further indicate a good match in the modeled head data.



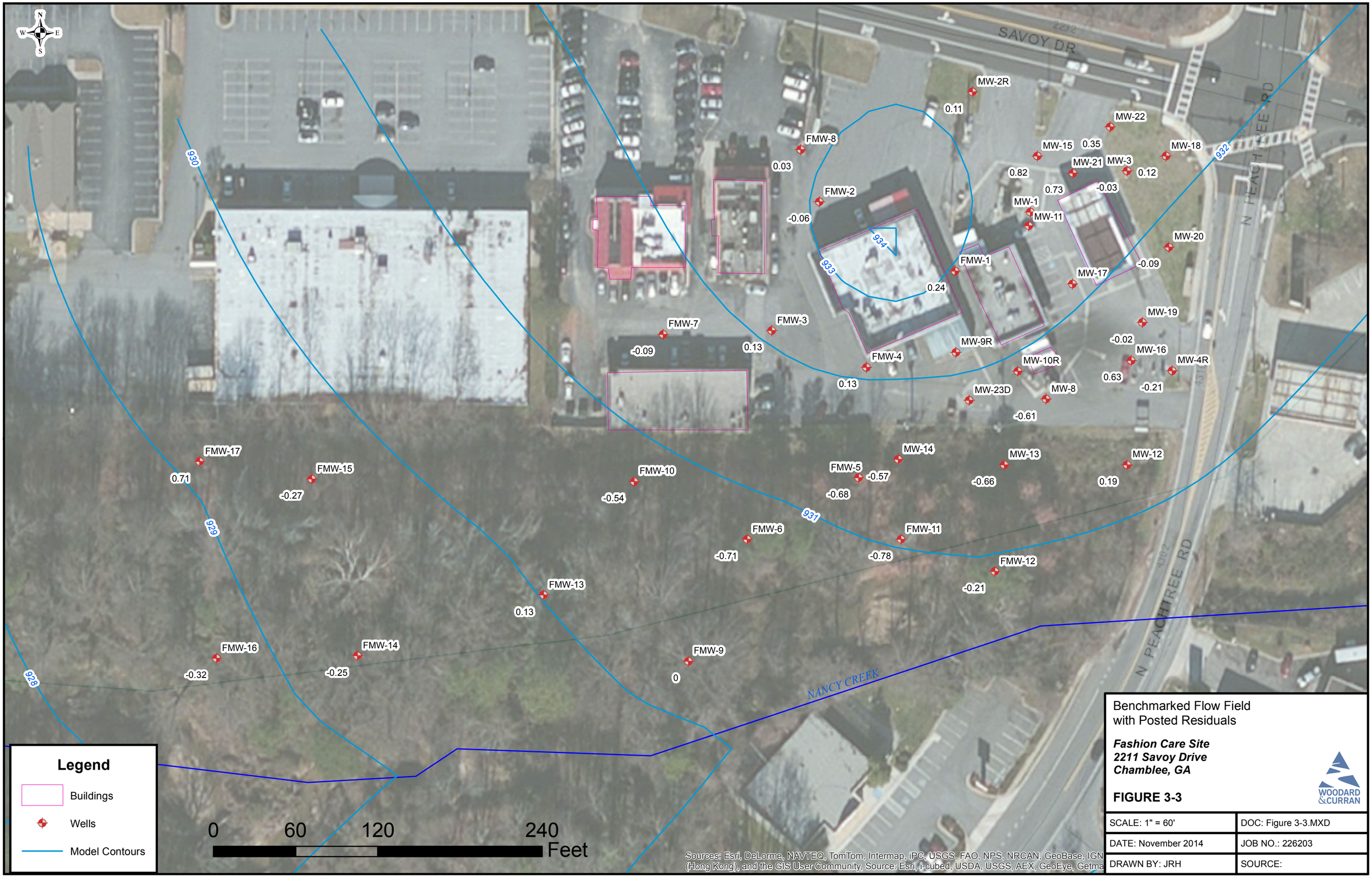
Model Distribution of Hydraulic Conductivity

Fashion Care Site
2211 Savoy Drive
Chamblee, GA

FIGURE 3-2

WOODARD &CURRAN

SCALE: 1" = 300'	DOC: Figure 3-1.MXD
DATE: November 2014	JOB NO.: 226203
DRAWN BY: JRH	SOURCE:



Benchmarked Flow Field
with Posted Residuals

Fashion Care Site
2211 Savoy Drive
Chamblee, GA

FIGURE 3-3

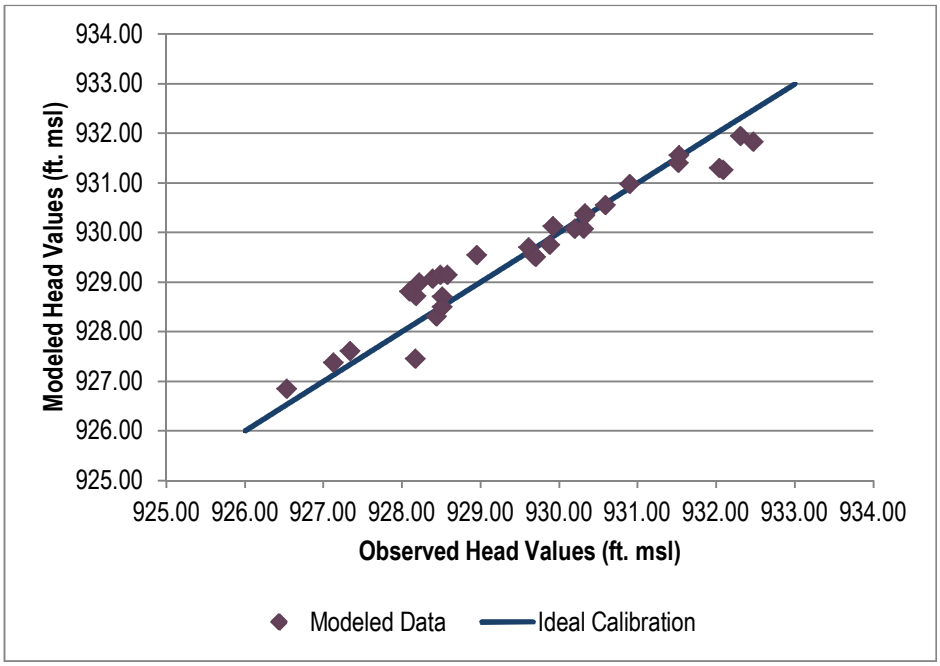
WOODARD &CURRAN

SCALE: 1" = 60'	DOC: Figure 3-3.MXD
DATE: November 2014	JOB NO.: 226203
DRAWN BY: JRH	SOURCE:

Table 3-1: Calibration Data and Statistics
Fashion Care Site
Chamblee, GA

Name	Observed Head (ft)	Modeled Head (ft)	Residual
FMW-1	930.31	930.07	0.24
FMW-10	928.18	928.72	-0.54
FMW-11	928.22	929.00	-0.78
FMW-12	928.51	928.72	-0.21
FMW-13	928.44	928.31	0.13
FMW-14	927.13	927.38	-0.25
FMW-15	927.34	927.61	-0.27
FMW-16	926.53	926.85	-0.32
FMW-17	928.17	927.46	0.71
FMW-2	930.33	930.39	-0.06
FMW-3	929.88	929.75	0.13
FMW-4	929.68	929.55	0.13
FMW-5	928.39	929.07	-0.68
FMW-6	928.1	928.81	-0.71
FMW-7	929.61	929.70	-0.09
FMW-8	930.59	930.56	0.03
FMW-9	928.51	928.51	0.00
MW-12	929.7	929.51	0.19
MW-13	928.49	929.15	-0.66
MW-14	928.58	929.15	-0.57
MW-15	932.09	931.27	0.82
MW-18	930.2	930.08	0.12
MW-16	932.47	931.84	0.63
MW-19	930.33	930.35	-0.02
MW-20	930.9	930.99	-0.09
MW-21	932.04	931.31	0.73
MW-22	932.31	931.96	0.35
MW-2R	931.52	931.41	0.11
MW-3	931.53	931.56	-0.03
MW-4R	929.92	930.13	-0.21
MW-8	928.95	929.56	-0.61
Residual Mean			-0.06
Absoluate Residual Mean			0.34
Residual Std. Deviation			0.43
Sum of Squares			5.74
RMS Error			0.43
Min. Residual			-0.78
Max. Residual			0.82
Number of Observations			31
Range in Observations			5.94
Scaled Residual Std. Deviation			0.07
Scaled Absolute Residual Mean			0.06
Scaled RMS Error			0.07
Scaled Residual Mean			-0.01

Figure 3-4: Observed versus Modeled Heads



3.2.4 Contaminant Transport Modeling

Contaminant transport modeling was conducted in three distinct steps. The first step was to model distribution of total dissolved VOCs in the groundwater. The second step was to model the anticipated maximum concentration of PCE in the future, as this compound is the most prevalent compound at the Site with the lowest In-Stream Water Quality Standard (ISWQS). The third step was to evaluate the likely relative concentrations of the daughter products of PCE decay at the Site at the time of the maximum future PCE concentration and then compare these concentrations to the appropriate environmental standards.

For all simulations, the model assumes that source became active in the subsurface approximately 5 years after the Site began operation in 1968. The starting time for the simulation is therefore 1973. The source was assumed constant until late 2008/early 2009 when the source remedy using sodium persulfate and chelated iron was implemented. The flushing of Site soils as discussed in Section 3.1 was then used as the basis for adjusting source concentrations over time.

3.2.4.1 Total VOC Plume Modeling

The total VOC plume modeling was conducted to evaluate the following:

1.) The expected maximum extent of the total plume in the aquifer ,

2.) The relevant environmental criteria against which to evaluate modeled future concentrations (i.e. surface water protection, drinking water, etc.);

3.) The adequacy of the existing monitoring network to effectively monitor anticipated changes, if any, in the plume distribution, and

4.) The potential for additional receptors to be impacted by the plume in the future.

The main parameters for varying in the contaminant transport model are the source distribution and concentration and the dispersivity values. The initial source area for the total VOC portion of the model was assigned based on observations of data. Source concentrations were varied between 5 mg/l and 110 mg/l in the area beneath the southern corner of the dry cleaning building. The source concentration was varied from these initial values in a stepwise fashion over 7 years until reaching an assumed, irreducible minimum of 1 mg/l in year seven. Dispersivity values were initially assigned a value of 1 for longitudinal dispersivity, 0.1 for transverse dispersivity, and 0.01 for vertical dispersivity. During benchmarking, the values for dispersivity were adjusted to 0.8, 0.08, and 0.01 respectively for longitudinal, transverse, and vertical dispersivities.

In order to develop a model that yielded modeled data consistent with Site monitoring results, plume retardation was incorporated into the transport simulation. Retardation in the MT3D model is accomplished by incorporating soil adsorption. Adsorption is based on three parameters: K_{oc}, f_{oc}, and soil bulk density. The product of K_{oc} and f_{oc} is the transport parameter K_d or adsorption constant. Since there is not a specific K_{oc} value for total VOCs and the site specific f_{oc} may vary over a large range, the value for K_d was adjusted during calibration to achieve a suitable match to observed Site chemical data.

3.2.4.2 PCE Plume Modeling

The PCE plume was developed using the same basic dispersivity as was used in the total VOC transport model. The source terms were adjusted to reflect the portion of the total VOCs that are attributed to PCE in Site groundwater. The resulting source term for PCE was adjusted to have decay proportional to that used in the total VOC plume model.

The chemical specific adsorption on soils for PCE is based on values for K_{oc}, f_{oc}, and bulk density. The K_{oc} of 94.94 L/kg for PCE was obtained from Regional Screening Level (RSL) Chemical-specific Parameters Support Table, May 2014. The initial f_{oc} value for the Site soils was estimated at 0.002 mg/L per guidance provided by the Georgia EPD. The value for f_{oc} was varied during the modeling in order to achieve a good fit to the available Site chemical data time series.

3.2.4.3 Daughter Product Prediction Modeling

The Site monitoring data include detectable concentrations of the breakdown of PCE into its various daughter products as discussed in Section 2.2.3. In order to understand the maximum expected concentration of each of the daughter products at the time of maximum PCE concentration, a simulation using BIOCHLOR22 was performed. Chemical transport parameters were initially set at those used in the PCE modeling and adjusted during benchmarking. A discussion of benchmarking and model predictions are provided in Section 3.2.5.3 below.

3.2.5 Contaminant Transport Model Benchmarking

Each stage of the contaminant transport modeling process underwent individual benchmarking to Site data. The discussion of the benchmarking for each step is provided in the sections below.

3.2.5.1 Total VOC Plume Benchmarking

The plume was generally well benchmarked against field measured values for VOCs in both the extent and shape of the plume. Figure 3-5 depicts the benchmarked plume distribution versus observed plume concentrations. As depicted, there is generally a good match with regard to plume shape and concentrations. The benchmarking of plume migration timing was accomplished by extracting modeled contaminant concentrations versus time, plotting

them, and comparing them to actual values. Figure 3-6 a, b, and c depict the modeled concentration time-series data for wells FMW-4, FMW-6 and FMW-9.

3.2.5.2 PCE Plume Benchmarking

The plume was generally well benchmarked against field measured values for PCE in both the extent and shape of the plume. Figure 3-7 depicts the benchmarked plume distribution versus observed plume concentrations. As depicted, there is generally a good match with regard to plume shape and concentrations. The benchmarking of plume migration timing was accomplished by extracting modeled contaminant concentrations versus time, plotting them, and comparing them to actual values. Figure 3-8 a, b, and c depict the modeled concentration time-series data for wells FMW-4, FMW-6 and FMW-9. While some values are under-predicted, in general the order of magnitude of predictions is correct, as are the trends in concentrations relative to the well location within the plume.

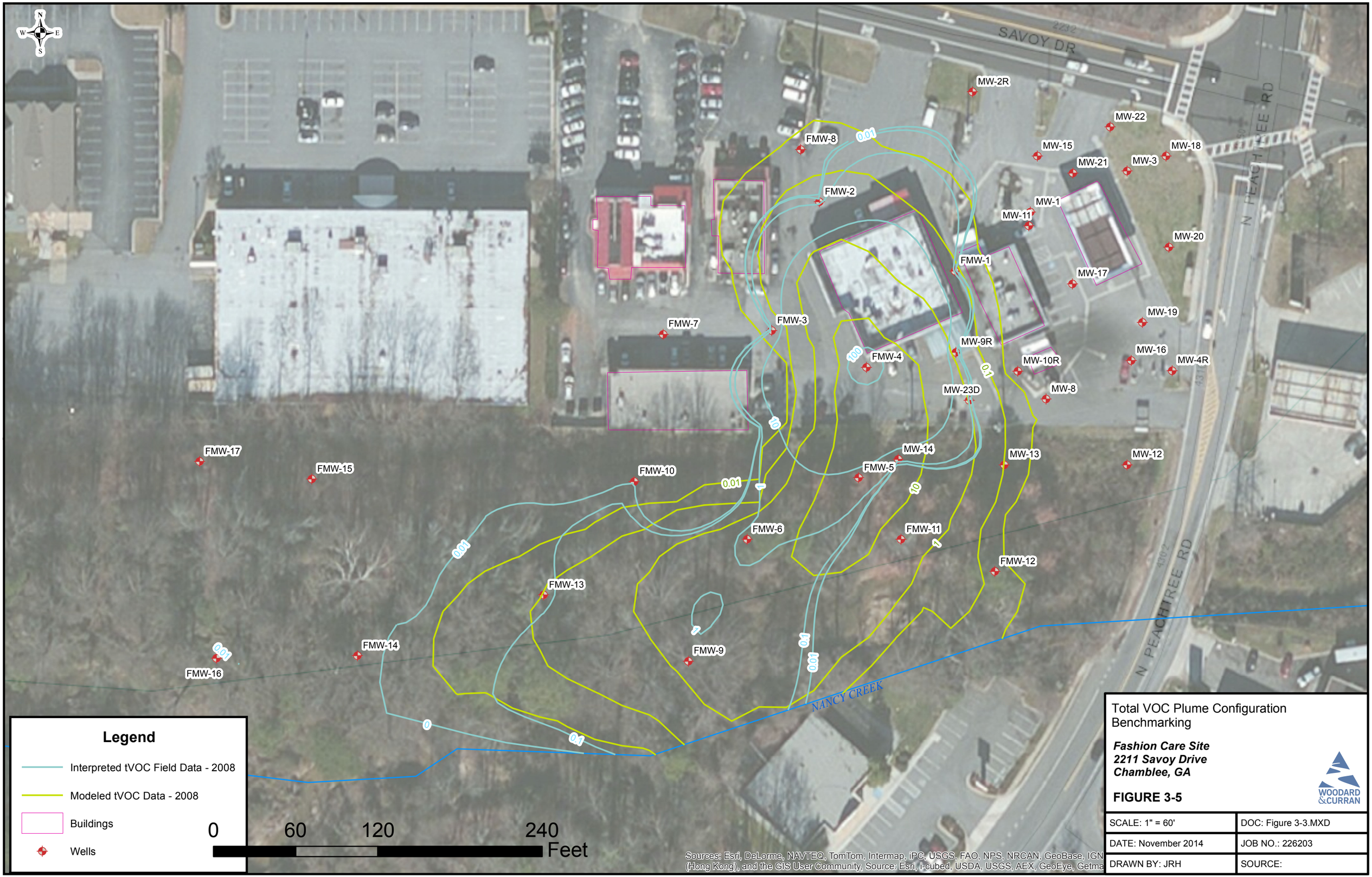
3.2.5.3 Daughter Product Model Benchmarking

The first step in this process was to benchmark the simulation against Site VOC data. Initial transport parameters were set to match those of the three dimensional model simulation for PCE transport. Model parameters were then modified to achieve a match for each of the daughter products. The BIOCHLOR22 model is spreadsheet based and provides outputs depicting modeled versus actual concentrations for each of the daughter products in the decay chain. As demonstrated in Figure 3-9, the modeled values for PCE, TCE, DCE, and VC match the field data relatively well. The calibrated parameters used in the BIOCHLOR simulation to achieve these matches are provided in Table 3-3 below.

Table 3-2: Model Parameters for BIOCHLOR Simulation

General			***Source***		
Simulation Time	41	yrs	PCE	190	mg/L
Modeled Width	190	ft	TCE	75	mg/L
Modeled Length	520	ft	DCE	1100	mg/L
Zone 1 Length	520	ft	VC	50	mg/L
Source Thickness	15	ft	ETH	1.8	mg/L
Source Width	25	ft			
Advection			***Dispersion***		
K	0.0068	cm/sec	αx	22	ft
i	0.005192	ft/ft	αy/ αx	0.32	unitless
n	0.09	unitless	αz/ αx	0.002	unitless
Seepage Velocity	407	ft/yr			
Adsorption					
Soil bulk density	1.75	kg/L			
foc	0.002	unitless			

Partition Coefficients			***R value***	***Biotransformation***		
				Zone 1 Path	***λ (1/yr)***	***Yield***
PCE	95	L/kg	4.69	PCE -> TCE	0.18	0.79
TCE	61	L/kg	3.36	TCE -> DCE	2.6	0.74
DCE	40	L/kg	2.54	DCE -> VC	2.5	0.64
VC	22	L/kg	1.85	VC -> ETH	40	0.45
ETH	302	L/kg	12.74			
Common R used in model			3.36			



Total VOC Plume Configuration
Benchmarking

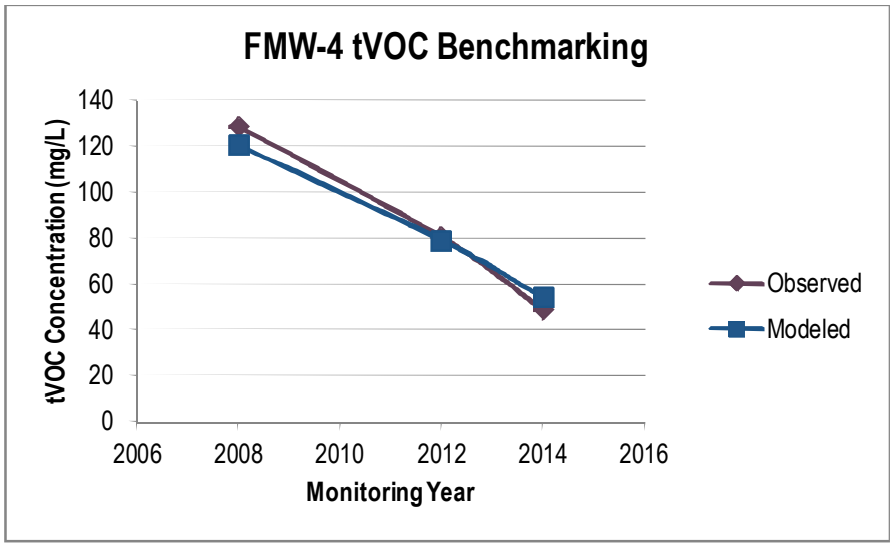
Fashion Care Site
2211 Savoy Drive
Chamblee, GA

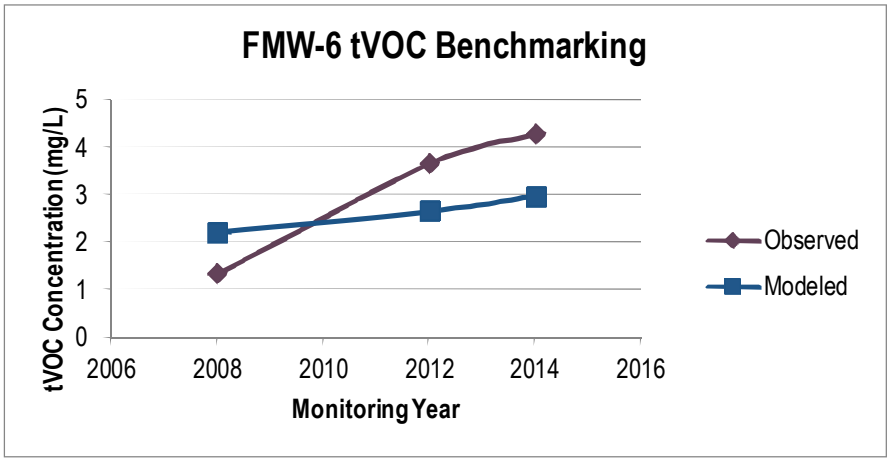
FIGURE 3-5

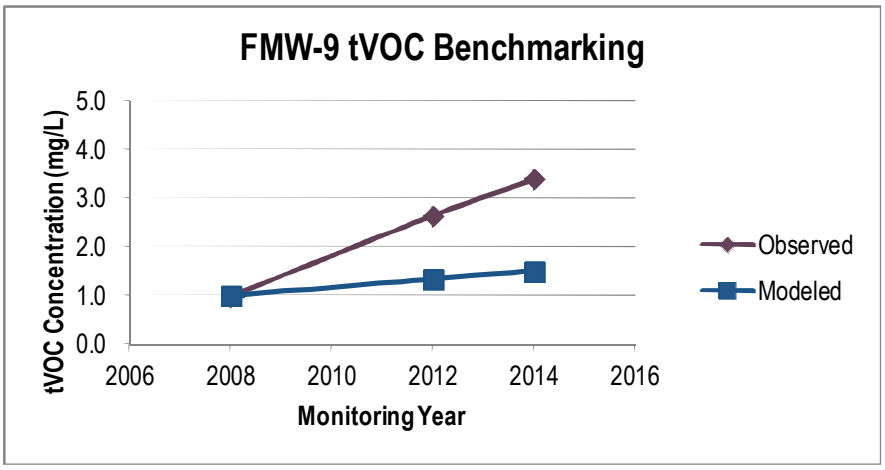
WOODARD &CURRAN

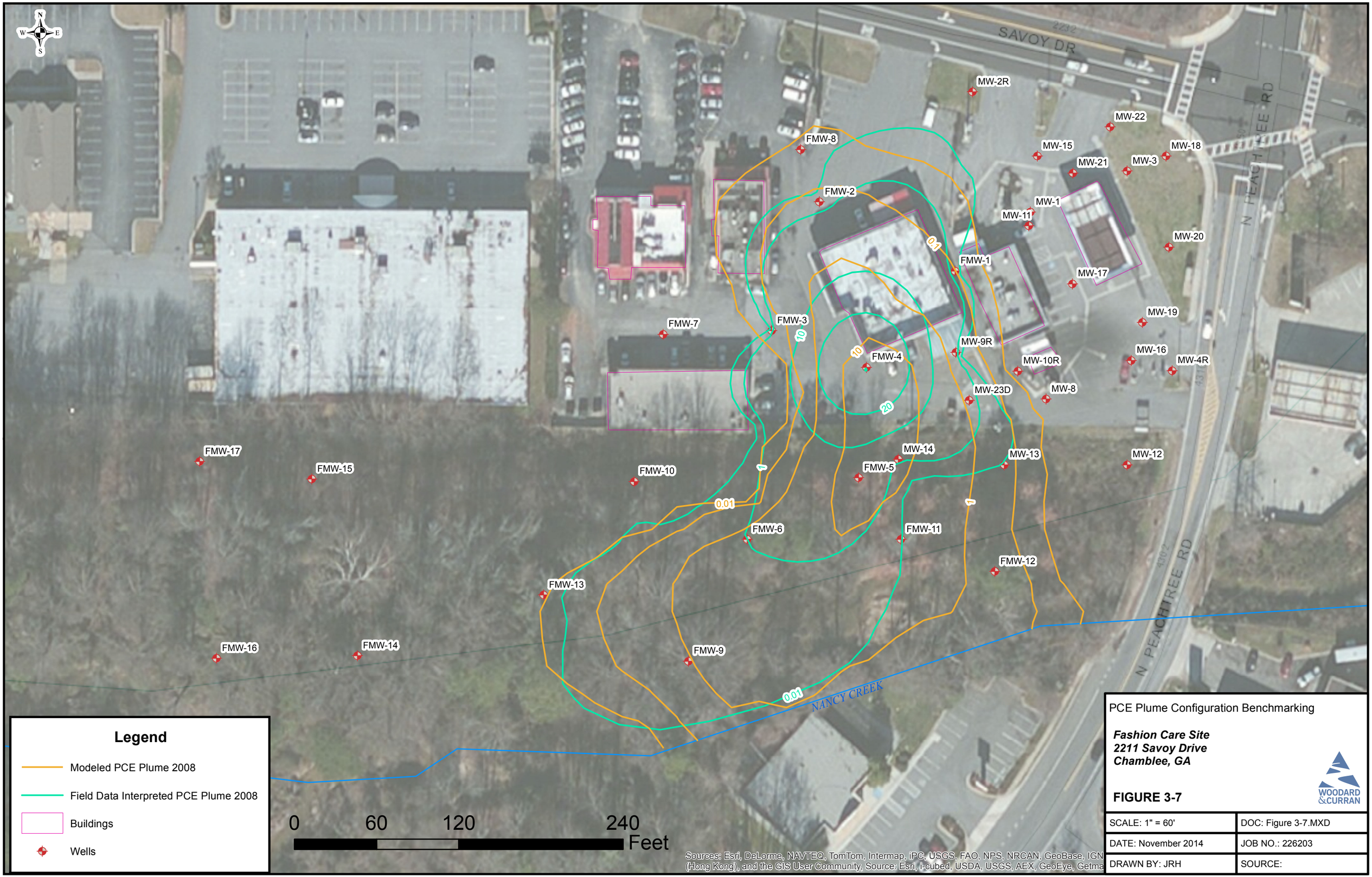
SCALE: 1" = 60'	DOC: Figure 3-3.MXD
DATE: November 2014	JOB NO.: 226203
DRAWN BY: JRH	SOURCE:

Figure 3-6: Total VOC Well Comparisons









PCE Plume Configuration Benchmarking

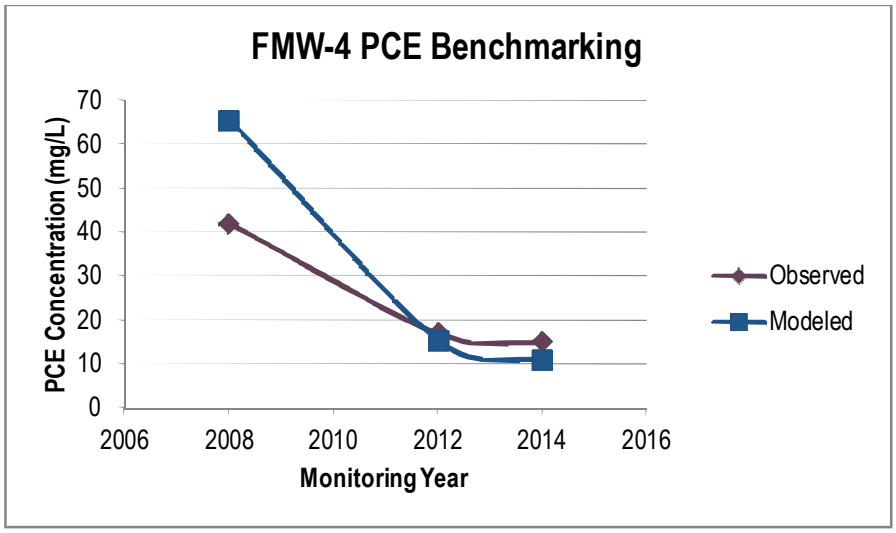
Fashion Care Site
2211 Savoy Drive
Chamblee, GA

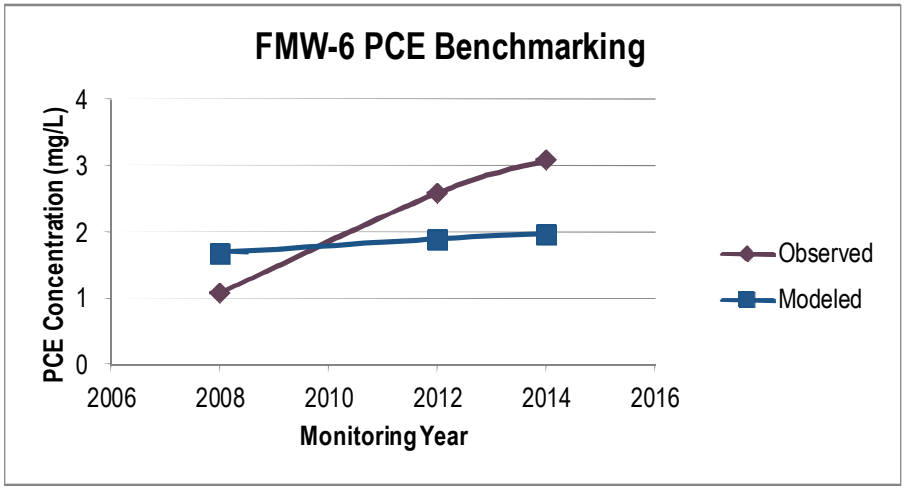
FIGURE 3-7

WOODARD &CURRAN

SCALE: 1" = 60'	DOC: Figure 3-7.MXD
DATE: November 2014	JOB NO.: 226203
DRAWN BY: JRH	SOURCE:

Figure 3-8: PCE Well Comparisons





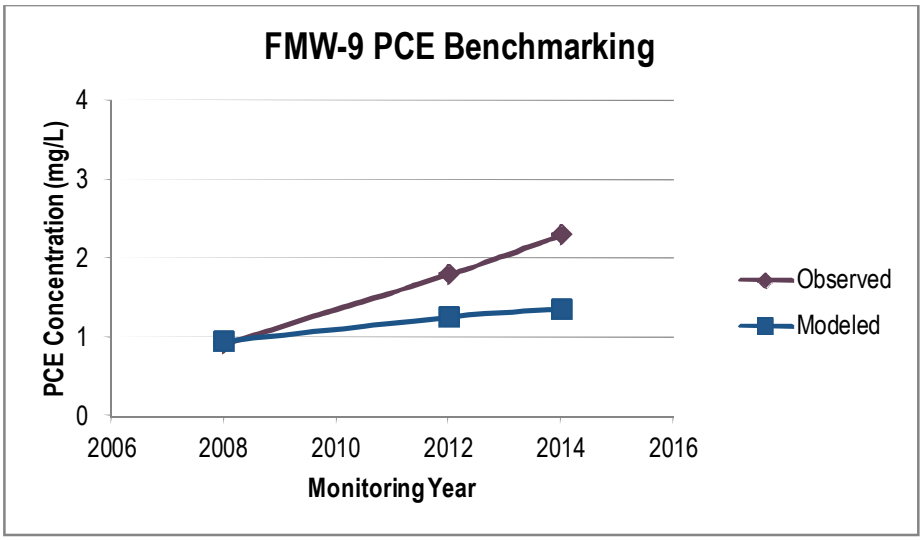
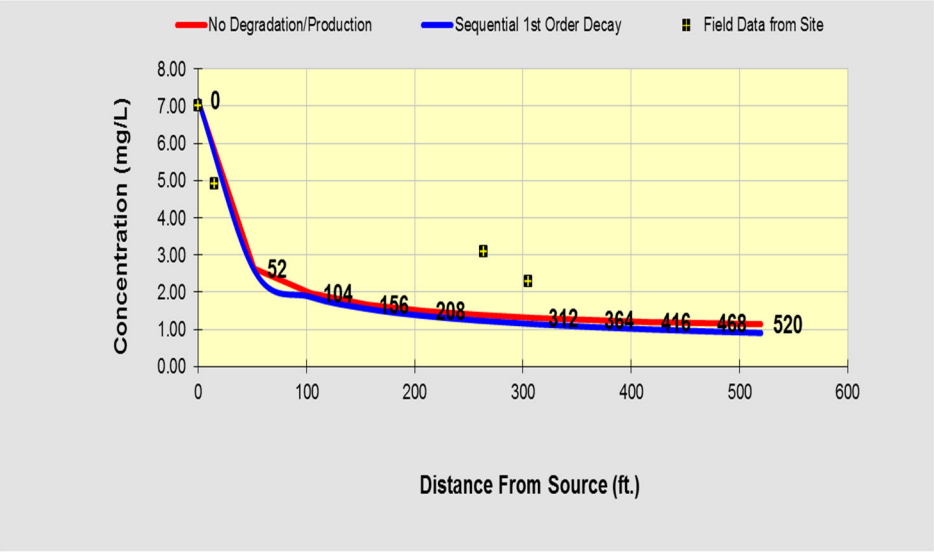
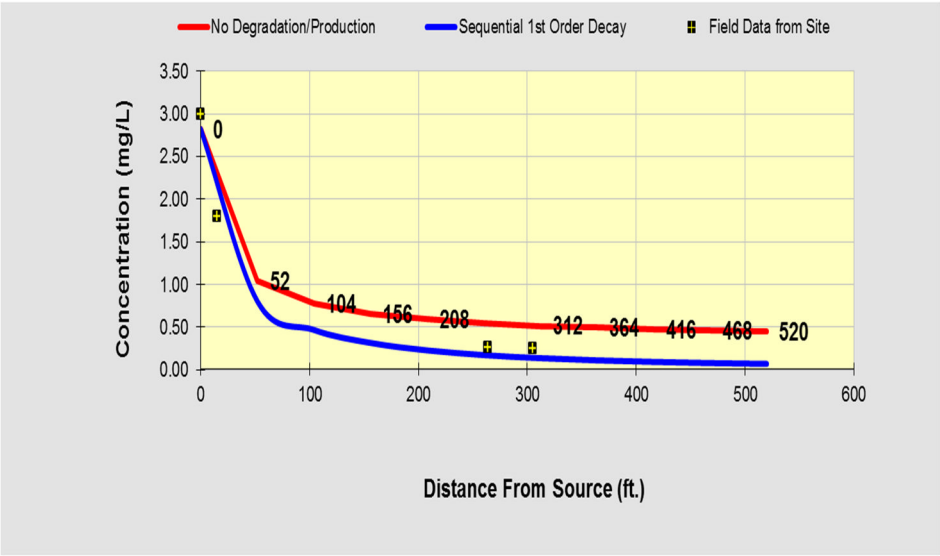


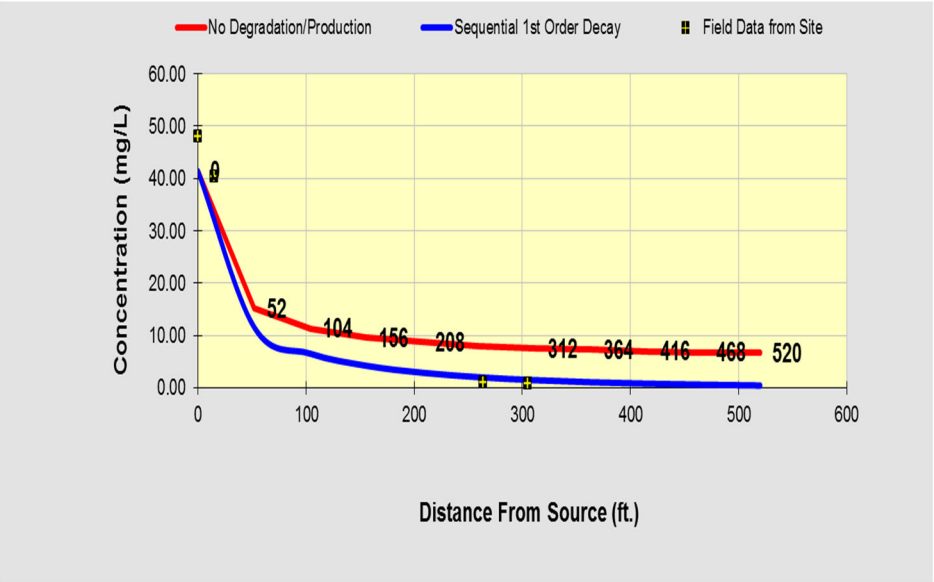
Figure 3-9: Modeled PCE and daughter product concentrations compared to field data



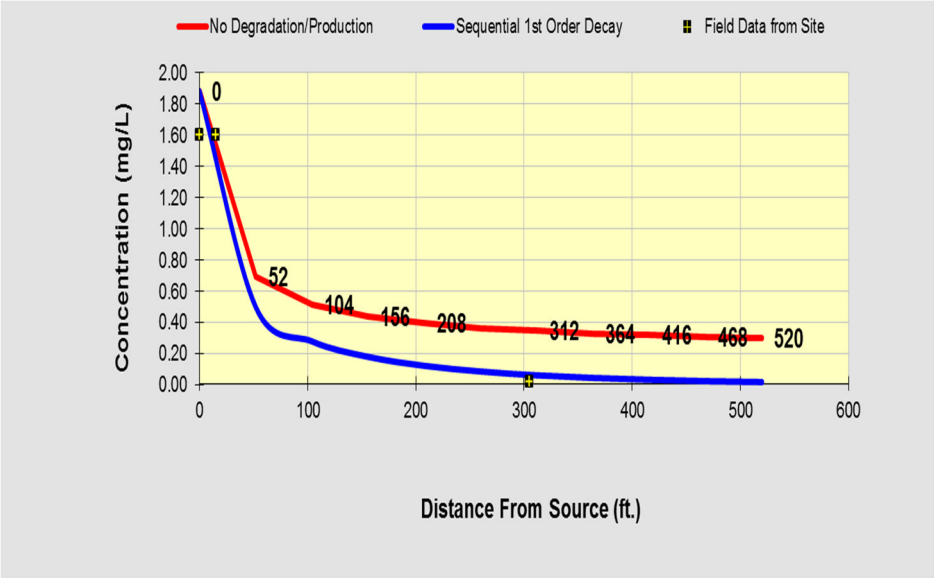
A. Modeled PCE concentrations versus distance along axis of plume.



B. Modeled TCE concentrations along axis of plume



C. Modeled DCE concentrations versus distance along axis of plume



D. Modeled VC concentrations along axis of plume.

4. PLUME SIMULATIONS AND SURFACE WATER MIXING CALCULATION

The benchmarked groundwater model was used to complete various simulations to evaluate plume stability and predicted future extents. Two types of simulations were performed a steady-state simulation assuming soil remains an ongoing source at current concentrations and transient simulations assuming that soils flush in a stepwise fashion as discussed in Section 3.1.

4.1 TOTAL VOC PLUME DISTRIBUTION

The simulation of total VOC concentrations was run forward in time to evaluate the existing groundwater monitoring network distribution and the potential for influencing additional receptors. The projected maximum extent of the plume is depicted in Figure 4-1. This figure indicates that the existing monitoring network is adequate for plume monitoring as it would allow delineation and monitoring of the plume over time.

4.2 PCE PLUME DISTRIBUTION AND MAXIMUM STREAM VALUES

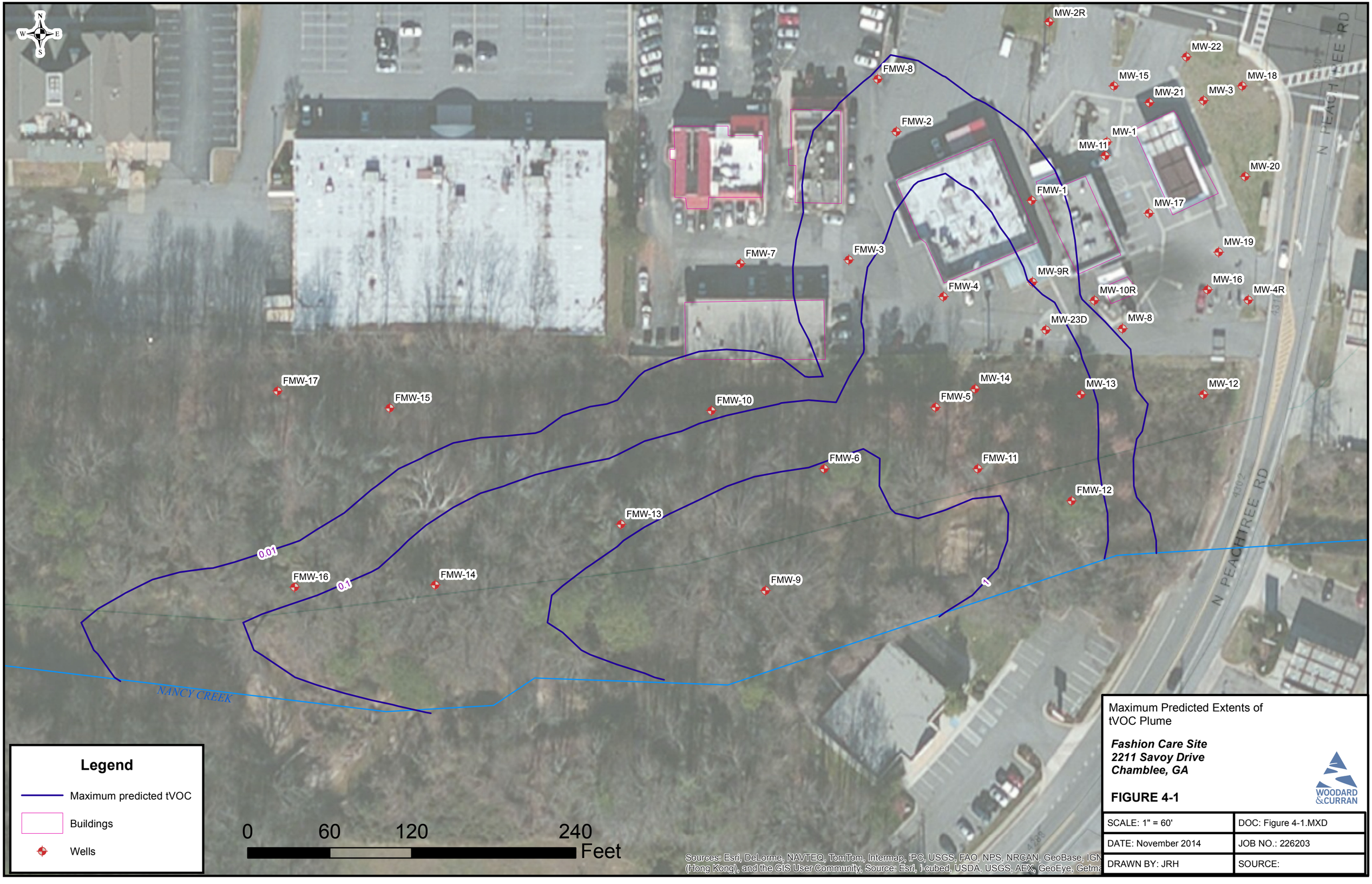
The maximum extent of the PCE plume is slightly less than that of the total VOC plume depicted in Figure 4-1. In order to understand the potential time-frame and concentration of the maximum discharge concentration of PCE into Nancy Creek, monitoring nodes were placed in the modeled creek at areas where the core of the modeled plume discharges to the creek. The modeled points are depicted on Figure 4-2 that depicts the maximum projected extents of the core of the plume in Nancy Creek. The modeled time frame for the maximum extents are indicated on the graphic as potentially occurring at approximately 41 years from 2014. Figure 4-3 depicts the maximum expected groundwater discharge concentration at two locations in the creek. The maximum predicted concentration of PCE entering Nancy Creek is approximately 2.42 mg/L. This predicted concentration is used in later sections to evaluate the potential for exceedance of ISWQS.

4.3 PLUME DAUGHTER PRODUCT PREDICTION AT NANCY CREEK

The calibrated BIOCHLOR22 model was used to predict concentrations of daughter products at the maximum PCE concentration of approximately 2.42 ug/L at the stream. Since BIOCHLOR22 is a simple two-dimensional model assuming a uniform flow field, the maximum concentration at a given distance at given time is located along the centerline of a symmetrical plume. Since the plume at the Site is not a simple symmetrical plume in a uniform flow-field, the distance used for prediction of daughter products based on the time projection was the distance from the source area to Nancy Creak. Table 4-1 below provides the predicted maximum concentrations of PCE and the following degradation daughter products: TCE, DCE, and VC.

4.3 SURFACE WATER MIXING CALCULATION

In order to evaluate the potential for PCE and its degradation products to be present in the stream above ISWQS, a groundwater to surface water mixing calculation was performed. The concentrations for PCE, TCE, DCE and VC in groundwater predicted in the previous sections were then blended based on modeled groundwater discharge and the volume of flow in Nancy Creek at the Site at 7Q10 conditions. Per correspondence from Georgia EPD dated December 2, 2010, the 7Q10 flow at the area of groundwater discharge is 3 cubic feet/second.



Maximum Predicted Extents of tVOC Plume

Fashion Care Site
2211 Savoy Drive
Chamblee, GA

FIGURE 4-1

WOODARD & CURRAN

SCALE: 1" = 60'	DOC: Figure 4-1.MXD
DATE: November 2014	JOB NO.: 226203
DRAWN BY: JRH	SOURCE:

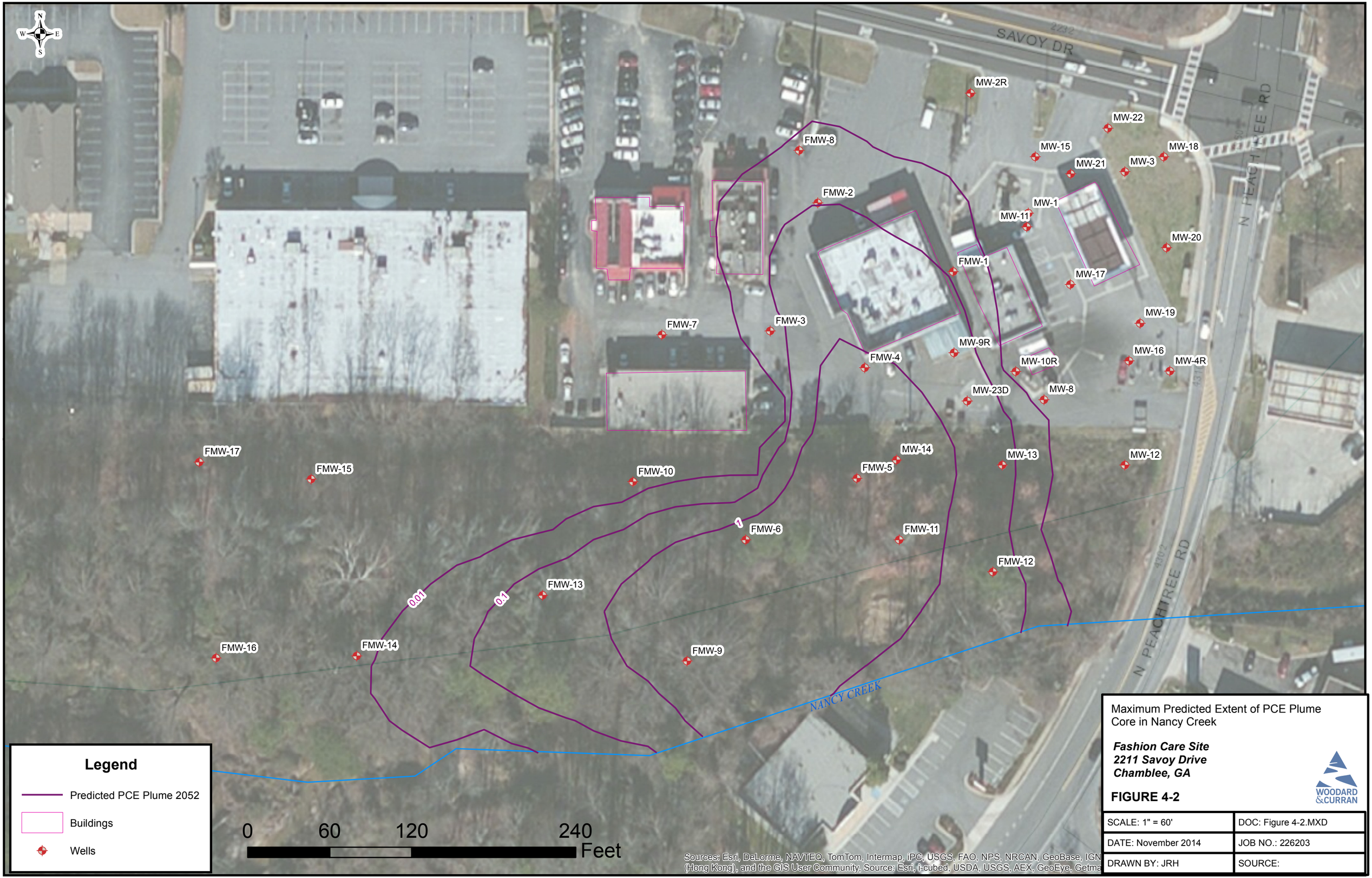
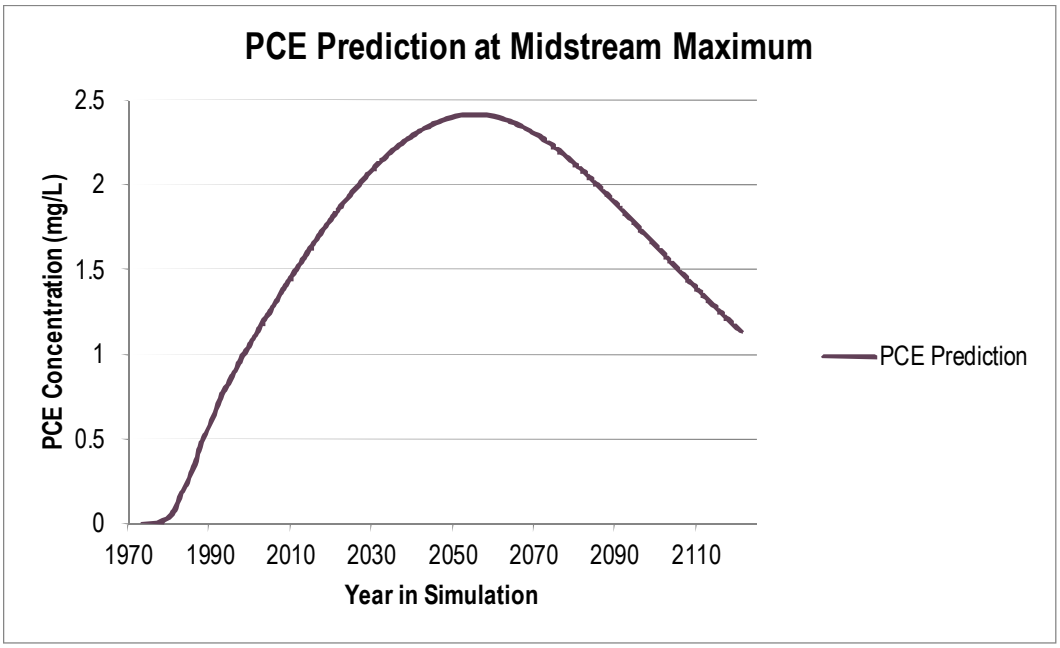
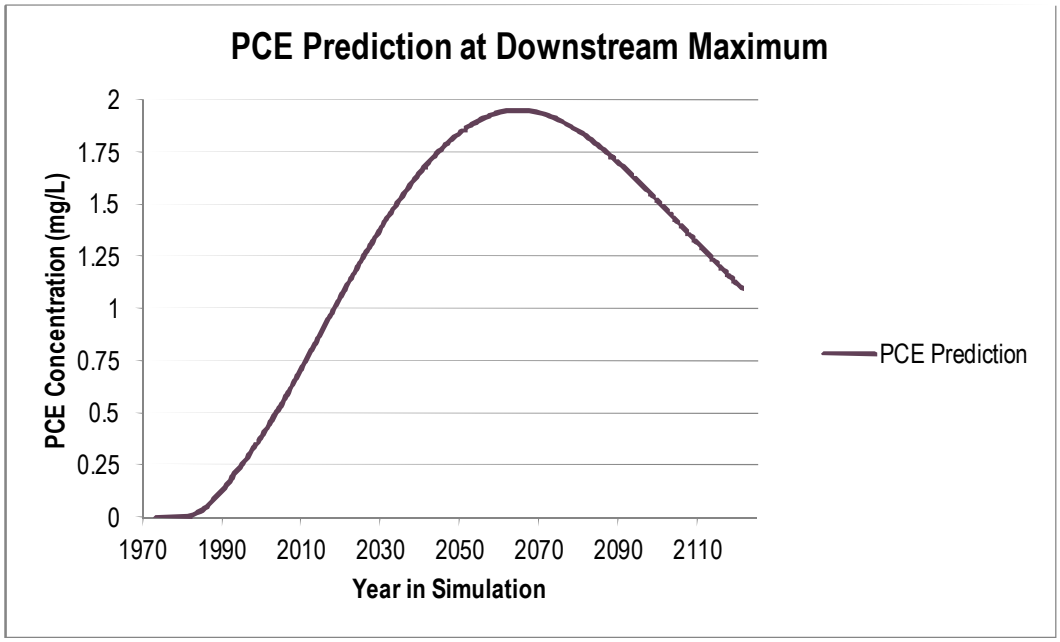

N
W
E
S
SAVOY DR
N PEACHTREE RD
NANCY CREEK
MW-2R
MW-22
MW-15
MW-18
MW-21
MW-3
MW-1
MW-11
MW-20
MW-17
MW-19
MW-16
MW-4R
MW-10R
MW-9R
MW-23D
MW-8
MW-14
MW-13
MW-12
FMW-8
FMW-2
FMW-1
FMW-7
FMW-3
FMW-4
FMW-17
FMW-15
FMW-10
FMW-5
FMW-6
FMW-11
FMW-12
FMW-13
FMW-16
FMW-14
FMW-9
0.01
0.1
1
0
60
120
240
Feet
Legend
Predicted PCE Plume 2052
Buildings
Wells
Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, iPC, USGS, FAO, NPS, NRCAN, GeoBase, IGN
(Hong Kong), and the GIS User Community, Source: Esri, i-cubed, USDA, USGS, AEX, GeoEye, Getma
Maximum Predicted Extent of PCE Plume
Core in Nancy Creek
Fashion Care Site
2211 Savoy Drive
Chamblee, GA
FIGURE 4-2
WOODARD &CURRAN
SCALE: 1" = 60'
DOC: Figure 4-2.MXD
DATE: November 2014
JOB NO.: 226203
DRAWN BY: JRH
SOURCE:

Figure 4-3: Maximum Predicted PCE Concentrations to Nancy Creek





The mixing zone calculation is as follows:

$$C_{SWVOC} = \frac{V_{gw}}{V_{gw} + V_{sw}} * C_{GWVOC}$$

where:

C_{SWVOC} = concentration of a particular VOC in surface water after mixing with groundwater containing that VOC discharges to the stream

V_{gw} = groundwater discharge volume (modeled value is 0.0019 cfs)

V_{sw} = surface water flow at 7Q10 (3 cfs for the Site)

C_{GWVOC} is the concentration in groundwater of the particular VOC being modeled

The table below provides the calculation of the concentration each VOC in surface water for the single point in the stream with the maximum predicted concentrations in groundwater and compares them to the Georgia EPD compound specific ISWQS.

Table 4-1: Predicted Point Concentrations in Surface Water after Mixing

	GW conc. (mg/L) at MS-1	Mixed Conc. (mg/L) at MS-1	GA ISWQC (mg/L)	Above Criteria
PCE	2.42	0.00153	0.003	no
TCE	0.162	0.000102	0.030	no
DCE	1.773	0.001121	10.000	no
VC	0.076	4.81E-05	0.0024	no

Notes: SW/GW = Surface water/Groundwater
GA ISWQC = Georgia In-Stream Water Quality Criteria

5. SUMMARY AND CONCLUSIONS

Based on the modeling exercises completed to date, the plume will likely remain stable or decrease over the next 60 years. The plume generally appears to migrate down the axis of the Nancy Creek Valley on the northern side of the creek. The overall plume distribution appears to be monitored adequately by the existing well network. Given these observations, the following conclusions/recommendations are made:

- The predicted plume footprint does not expand substantially beyond the existing monitoring well network;
- As the source area is depleted, the center of maximum plume concentration will slowly migrate and continue to degrade as it migrates toward Nancy Creek;
- The maximum modeled concentration of PCE is predicted to discharge to Nancy Creek approximately 41 years after the source remediation effort conducted in 2008;
- Based on modeling, plume characteristics can be adequately monitored through annual or semi-annual sampling of FMW-6, FMW-9, and FMW-16;
- Mixing calculations for the predicted maximum concentrations of PCE and daughter products in Nancy Creek indicate that ISWQS will not be exceeded; and
- No other receptors for the groundwater plume are present within the existing or predicted footprint of the plume at the Site.

6. REFERENCES

Harbaugh, A.W., Banta, E.R., Hill, M.C., and McDonald, M.G., 2000, *MODFLOW-2000, the U.S. Geological Survey modular ground-water model -- User guide to modularization concepts and the Ground-Water Flow Process: U.S. Geological Survey Open-File Report 00-92, 121 p.*

Georgia Environmental Protection Division, December 2, 2010, *Voluntary Investigation and Remediation Plan and Application, July 9, 2010 Comment Letter, Fashion Care/Executive Care Site, HSI No. 10786, 2211 Savoy Drive, Chamblee, Dekalb County, Georgia, Tax Parcel ID Nos. 18-343-13-002, 18-343-13-005, 18-343-13-001, & 18-333-02-023.*

Kresic, Nevin, 1997, *Quantitative Solutions in Hydrogeology and Groundwater Modeling,* CRC Press, Boca-Raton, FL, 461 p.

Winter Environmental, July 9, 2010, *Voluntary Remediation Plan Application, Voluntary Remediation Program, Fashion Care/Executive Care Site, HSI No. 10786, 2211 Savoy Drive, Chamblee, Dekalb County, Georgia.* Prepared for John F. Rowan, Sr. Item IV Trust. 192 p.

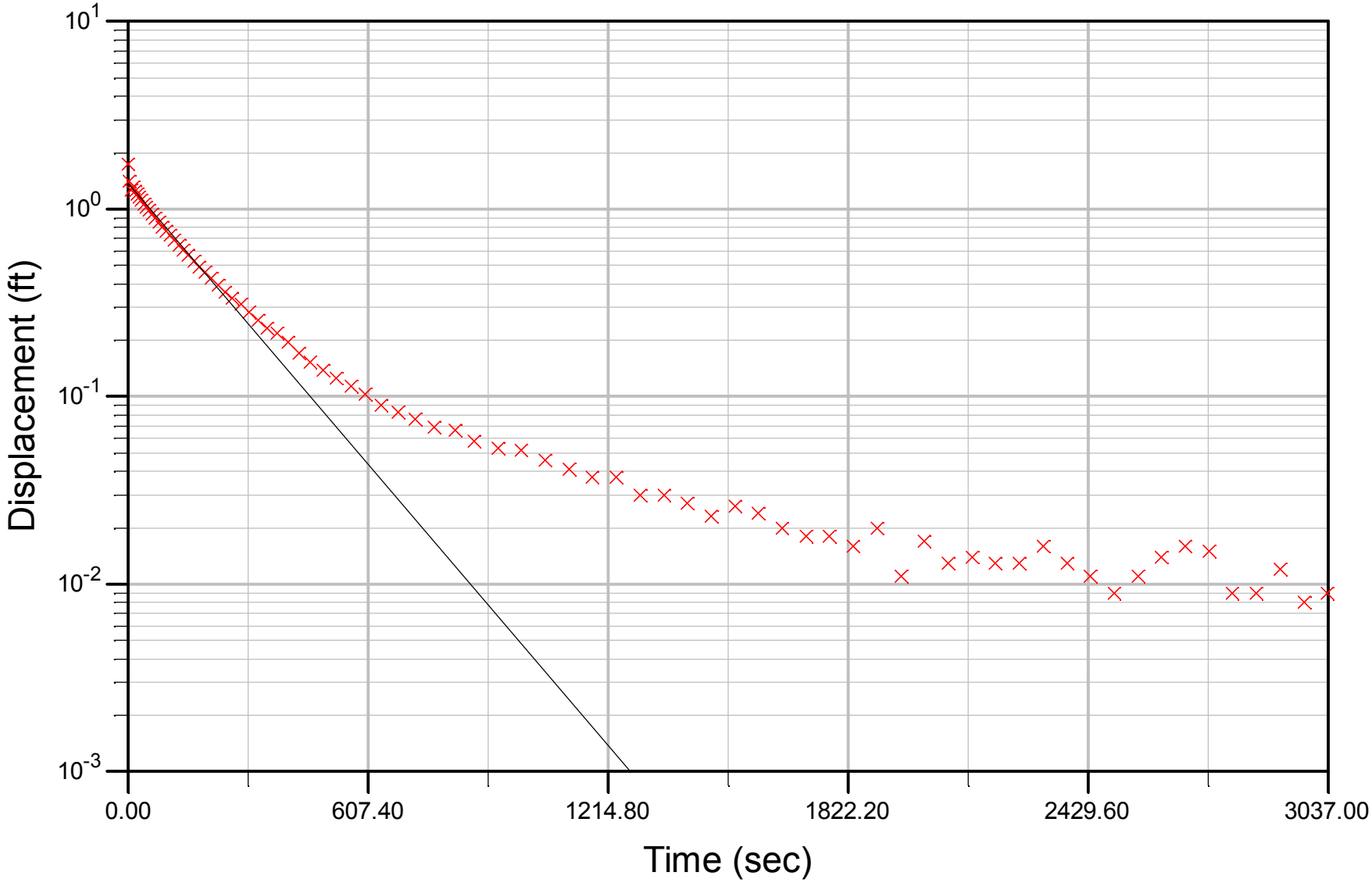
Zheng, Chunmiao, and P. Patrick Wang, 1999, *MT3DMS, A modular three-dimensional multi-species transport model for simulation of advection, dispersion and chemical reactions of contaminants in groundwater systems; documentation and user¡¯s guide,* U.S. Army Engineer Research and Development Center Contract Report SERDP-99-1, Vicksburg, MS, 202 p.

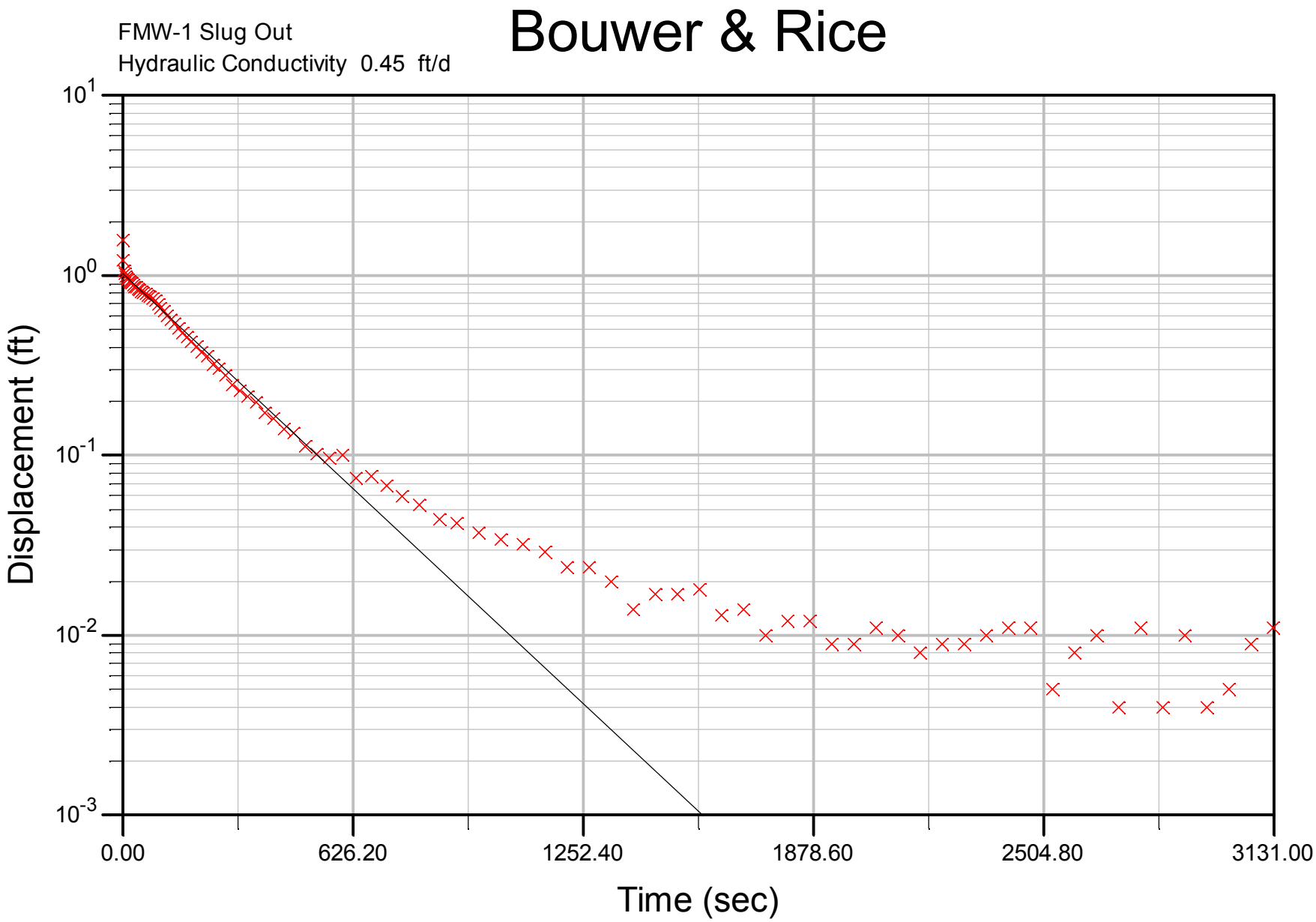
Appendix A
2014 Slug Testing

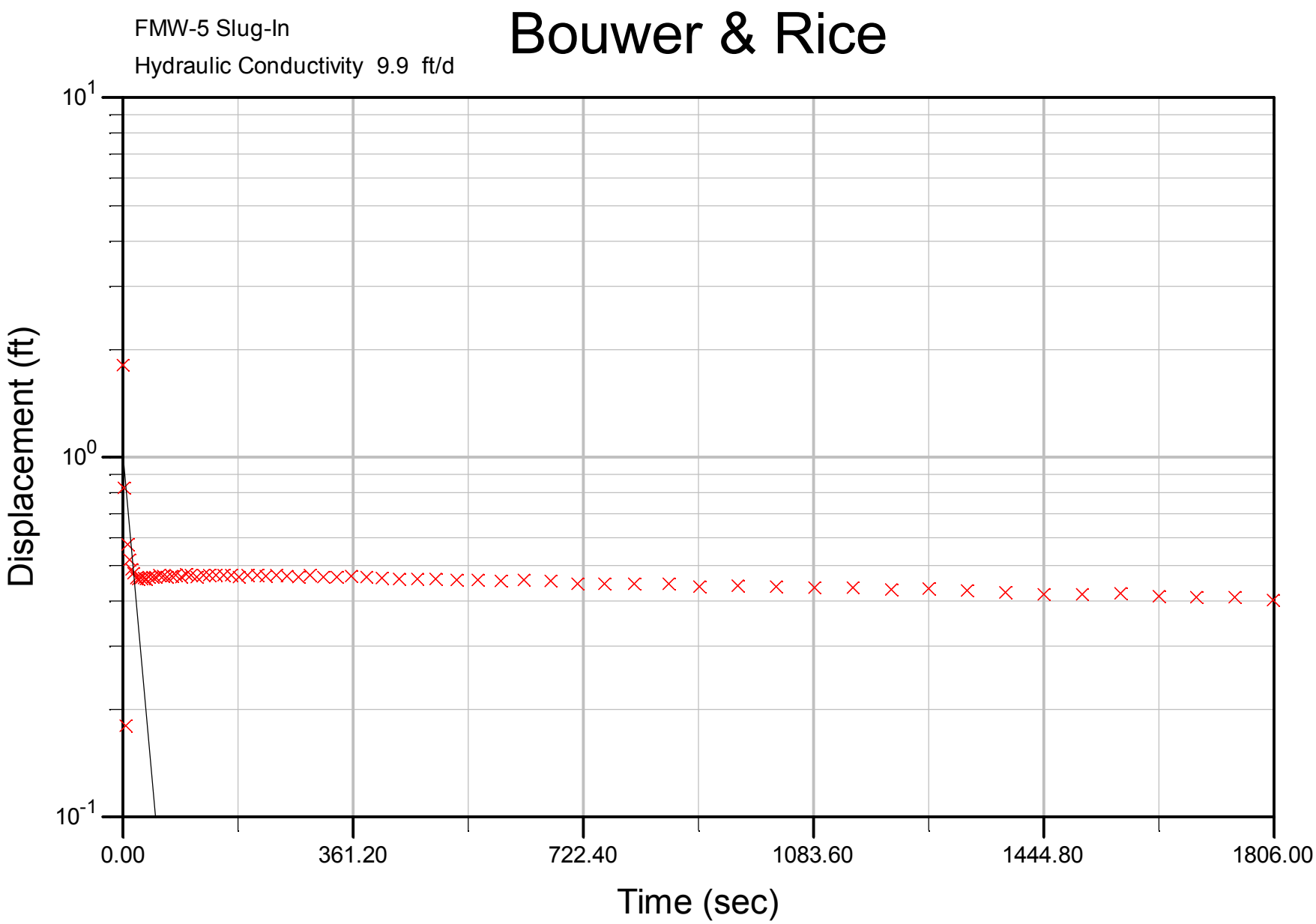
FMW-1 Slug-In

Hydraulic Conductivity 0.58 ft/d

Bouwer & Rice



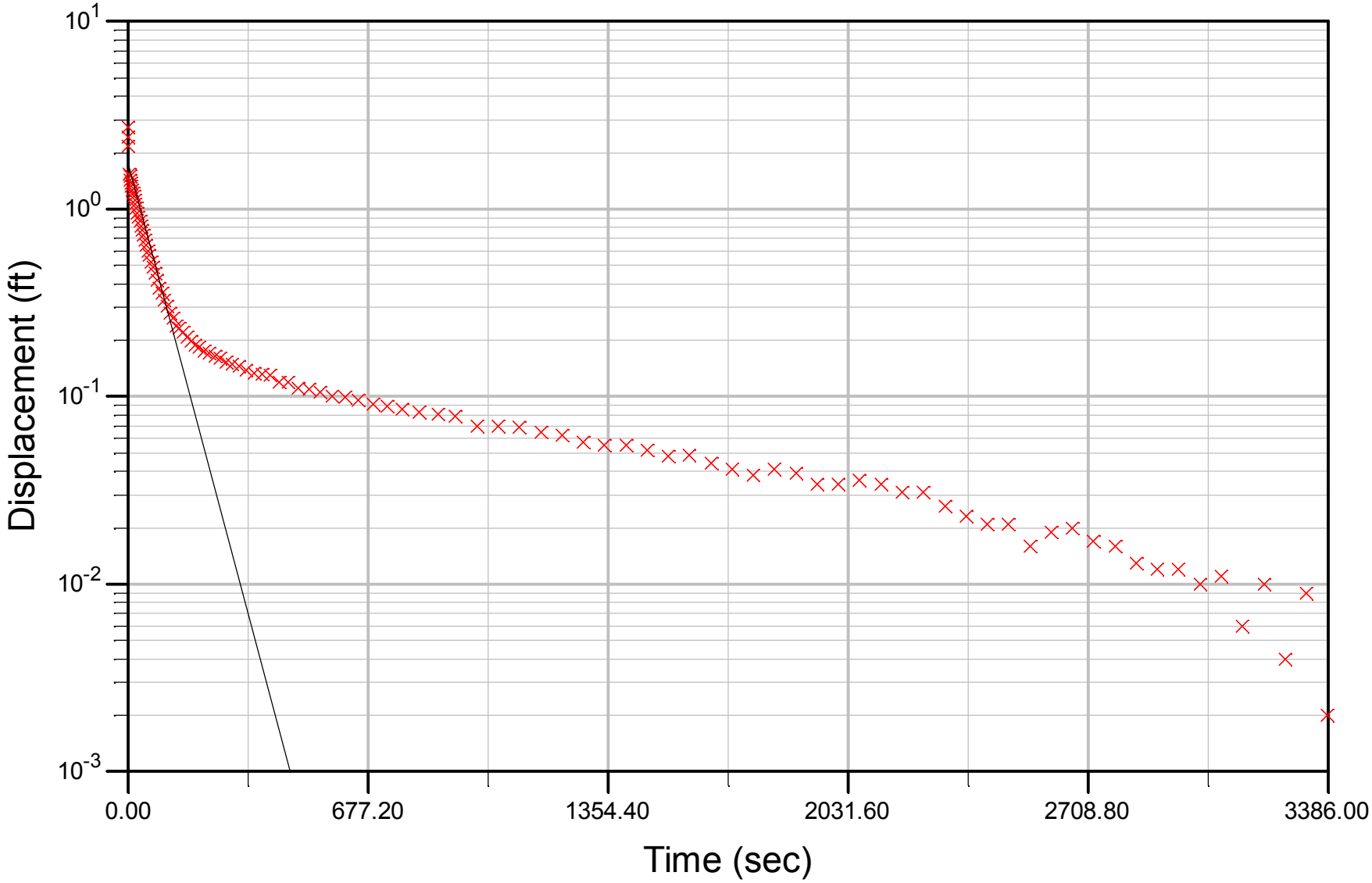

Bouwer & Rice
FMW-1 Slug Out
Hydraulic Conductivity 0.45 ft/d
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.00
626.20
1252.40
1878.60
2504.80
3131.00
Time (sec)

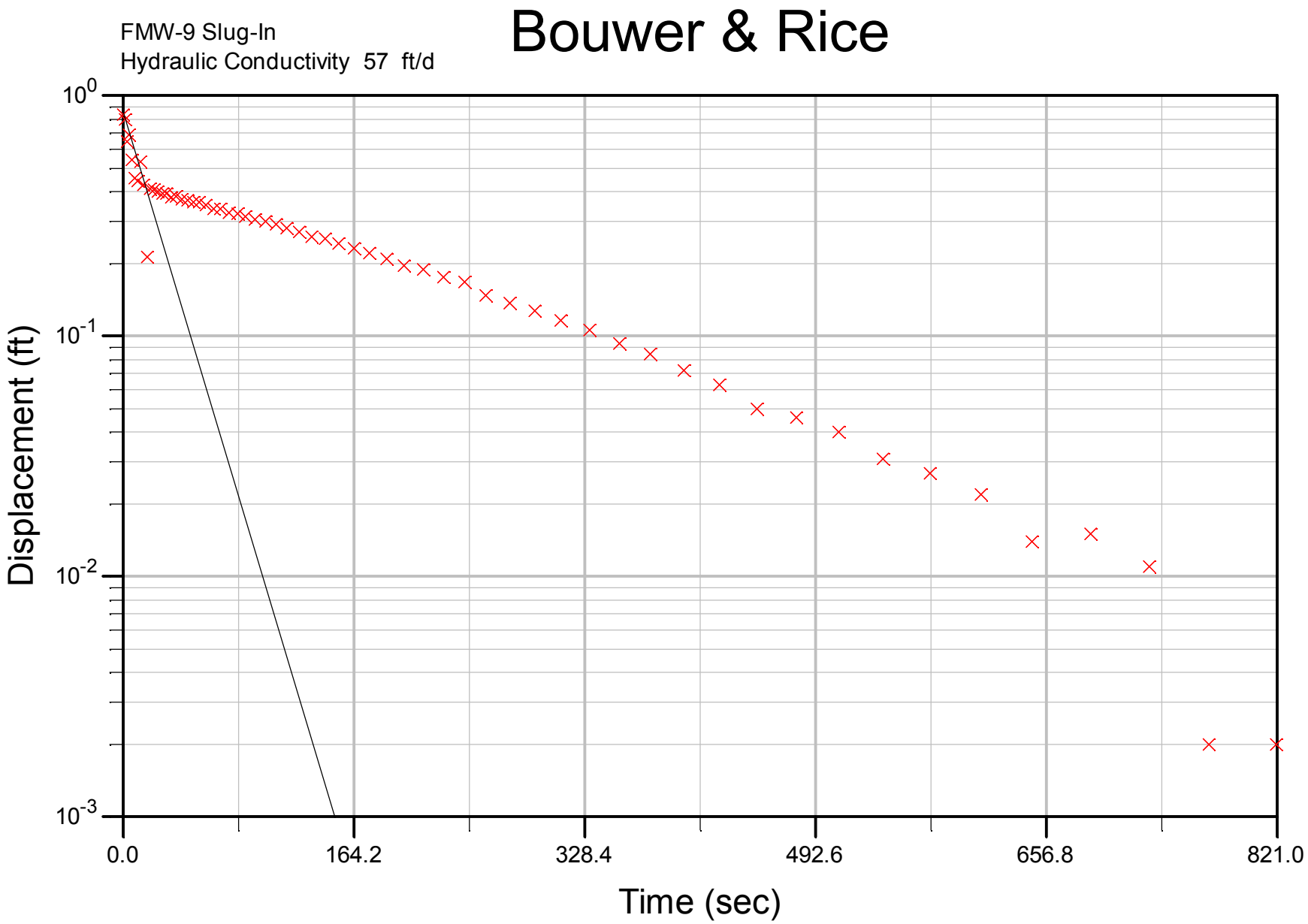

FMW-5 Slug-In
Hydraulic Conductivity 9.9 ft/d
Bouwer & Rice
Displacement (ft)
10^1
10^0
10^{-1}
0.00
361.20
722.40
1083.60
1444.80
1806.00
Time (sec)

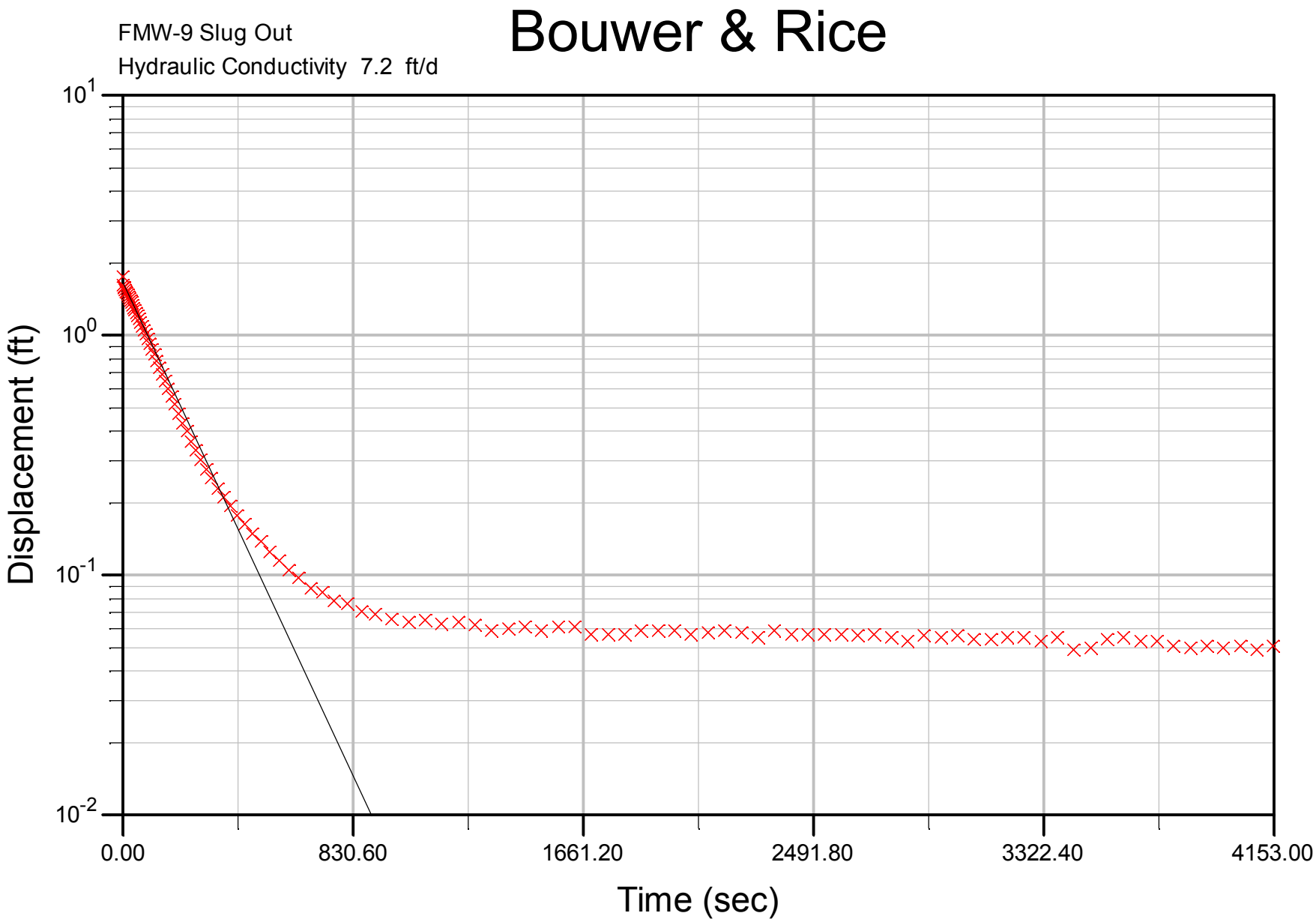
FMW-5 Slug-Out

Hydraulic Conductivity 3.68 ft/d

Bouwer & Rice




FMW-9 Slug-In
Hydraulic Conductivity 57 ft/d
Bouwer & Rice
Displacement (ft)
10^0
10^{-1}
10^{-2}
10^{-3}
0.0
164.2
328.4
492.6
656.8
821.0
Time (sec)


Bouwer & Rice
FMW-9 Slug Out
Hydraulic Conductivity 7.2 ft/d
Displacement (ft)
10^1
10^0
10^{-1}
10^{-2}
0.00
830.60
1661.20
2491.80
3322.40
4153.00
Time (sec)

Appendix B
2014 Nancy Creek Hand Auger Results

Soil Boring Log

Boring ID: **CK-HA-1**
Nancy Creek

Project:	Fashion Care Cleaners	Elevation:	
Project No:	226203	Date started:	9/9/2014
Location:	2211 Savoy Drive, Chamblee, GA	Date Completed:	9/9/2014
Driller:	Hand Auger	Field Oversight:	LJD
DTW:	NA	Final Depth:	2.5 ft

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	PID (ppm)	Remarks
0	Surface Water-Base of creek 1' below water surface		No samples collected	No readings collected	This boring was located slightly upstream of FMW-11. Surface water level and flow normal. Boring located in an erosional bend of the creek with no sediment accumulation. Exposed bank was a reddish-brown, sandy to clayey SILT.
	Grey, clayey SILT				
5	Reddish-brown, poorly sorted, sub-angular to well-rounded very coarse SAND w/large sub-angular to well-rounded pebbles				
	Hand auger boring termiated at approx. 2.5 ft.				
10					
15					
20					
25					
30					
35					

GENERAL SOIL PROFILE AT BORING LOCATION CK-HA-1

Elevation (relative to arbitrary datum of	Feet BGS	
91.5	0	Ground Surface
		Reddish Brown SILT with varying content of clay and very fine sand
86.5	5	
		(Saturated approx. 7.5-8 ft BGS)
	SW	(Approx. average surface water elevation 83.16 ft; Approx. Base of Creek, 1 ft below SW at boring CK-HA-1)
81.5	BOC 10	
		Reddish-brown, poorly sorted, sub-angular to well- rounded very coarse SAND w/large sub-angular to well-rounded pebbles. Thickness varies from 1-4 ft across site.
		Red to Brown SILT - moist
76.5	15	**Reddish-Brown SILT - dry, dense**
71.5	20	
		Bedrock
	25	

Notes:
Created from boring logs from SB-41, FMW-11, FMW-12 and CK-HA-1.
▼ Top of saturated zone.
SW Approximate surface water elevation during non-storm events.
BOC Approximate base of creek channel on September 9, 2014 at hand auger location relative to top of surface water.

Soil Boring Log

Boring ID **CK-HA-2**
Nancy Creek

Project:	Fashion Care Cleaners	Elevation:	
Project No:	226203	Date started:	9/9/2014
Location:	2211 Savoy Drive, Chamblee, GA	Date Completed:	9/9/2014
Driller:	Hand Auger	Field Oversight:	LJD
DTW:	NA	Final Depth:	1.5 ft

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	PID (ppm)	Remarks
0	Surface Water-Base of creek 2' below water surface		No samples collected	No readings collected	This boring was located downstream of FMW-9, estimated due south of FMW-13. Surface water level and flow normal. Boring located in an erosional bend of the creek with some sediment accumulation.
	Grey, clayey SILT				
5	Hand auger boring termiated at approx. 2.5 ft.				
10					
15					
20					
25					
30					
35					

GENERAL SOIL PROFILE AT BORING LOCATION CK-HA-2

Elevation (relative to arbitrary datum of	Feet BGS	
91	0	Ground Surface
		Reddish Brown SILT with varying content of clay and very fine sand
86	5	
		(Saturated approx. 8.5-9 ft BGS)
		(Approx. average surface water elevation 82.48 ft; Approx. Base of Creek, 2 ft below SW at boring CK-HA-2)
	SW	
81	10	**Grey to Tan, poorly sorted, sub-angular to well- rounded very coarse SAND w/large sub-angular to well-rounded pebbles.** Thickness varies from 1-4 ft across site.
	BOC	
		Red to Brown to Grey SILT - moist
76	15	
		Reddish-Brown SILT - dry, dense
71	20	
	25	

Notes:
Created from boring logs from SB-43, FMW-9 and CK-HA-2.
▼ Top of saturated zone.
SW Approximate surface water elevation during non-storm events.
BOC Approximate base of creek channel on September 9, 2014 at hand auger location relative to top of surface water.

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-41

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	7.5'	Final Depth:	21'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Reddish-Brown sandy SILT - dry	40%		Dry silt from 17' to 21' (refusal).
				Boring was sealed w/hydrated bentonite
5				Picture # 3
	Becoming Reddish-Gray - moist	85%		
	▽ Saturated @ 7.5'			
10		80%		
	Reddish-Brown sandy SILT - moist			
15	Red to Brown SILT - moist	40%		
	Reddish-Brown SILT - dry, dense			
20		10%		
	Refusal @ 21'			
25				
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-43

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	9'	Final Depth:	20'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Reddish-Brown sandy SILT - dry	40%		Dry silt from 15' to 20' (termination).
				Boring was sealed w/hydrated bentonite
5	Becoming moist	60%		Picture # 5&6
10	Gray to Tan SAND, course - wet, saturated @ 9' w/pebbles	50%		
	Reddish-Brown SILT - moist			
15	Reddish-Brown SILT - dry, dense	90%		
20	Boring Terminated @ 20'			
25				
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-44

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	7'	Final Depth:	20'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Reddish-Brown clayey SILT - dry	50%		Dry silt from 15' to 20' (termination).
	Becoming moist			Boring was sealed w/hydrated bentonite
5				Picture # 7 is the bottom 0f 10'-15' and 15'-20'
▽	Gray SAND course - wet, saturated @7'	60%		
10	w/some pebbles	70%		
	Tan to Reddish-Brown SILT - moist			
15	Tan to Reddish-Brown SILT - dry, dense	100%		
20	Boring Terminated @ 20'			
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-9

Project: Fashion Care
Project No: 8096
Location: Southwest of dry cleaner near creek
Driller: Atlas Geo Sampling
DTW: 8.5' Final Depth: 16'

Elevation:
Date started: 11/25/08
Date Completed: 11/25/08
Field Oversite: Len Diprima/Joe King

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish Brown SILT	45%		No soil samples collected
5	(7') Moist.	60%		
	▽WT~8.5'			
10	8.5' Grey sandy SILT, w/scattered round pebbles, WET	50%		
15	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-11

Project: Fashion Care
Project No: 8096
Location: South of dry cleaner
Driller: Atlas Geo Sampling
DTW: 9' Final Depth: 16'

Elevation:
Date started: 11/25/08
Date Completed: 11/25/08
Field Oversite: Len Diprima/Joe King

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish Brown silty CLAY, mosit	50%		No soil samples collected
5		80%		
	▽ WT~9'			
10	Reddish Tan silty CLAY, WET	100%		
15		100%		
	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: **FMW-12**

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	3/17/10
Location:	South of dry cleaner	Date Completed:	3/17/10
Driller:	Atlas Geo Sampling	Field Oversite:	Diprima
DTW:	9' Final Depth: 16'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish Brown SILT, some relict rock structure	60%		No soil samples collected
5	5'-7' clayey SILT	80%		
▽	9' sandy SILT; WET	90%		
10				
	14'-15' Gravel	50%		
15	15'-16' Grey SILT; DRY			
	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Project Photos

Nancy Creek Hand Auger Borings
Fashion Care/Executive Care
VRP Site
2211 Savoy Drive
Chamblee, GA

Photo 1

Description: Location of boring CK-HA-1. An erosional surface at the base of the channel of Nancy Creek.

View Direction: North

Date Taken: 09/09/2014

Photo 2

Description: Hand auger cuttings, boring CK-HA-1.

Date Taken: 09/09/2014

Project Photos

Nancy Creek Hand Auger Borings
Fashion Care/Executive Care
VRP Site
2211 Savoy Drive
Chamblee, GA

Photo 3

Description: Hand auger cuttings, boring CK-HA-1.

Date Taken: 09/09/2014

Photo 4

Description: Location of boring CK-HA-2. An erosional surface at the base of the channel of Nancy Creek

View Direction: South

Date Taken: 09/09/2014

Project Photos

Nancy Creek Hand Auger Borings
Fashion Care/Executive Care
VRP Site
2211 Savoy Drive
Chamblee, GA

Photo 5

Description: Hand auger cuttings, boring CK-HA-2.

Date Taken: 09/09/2014

Appendix C
Soil Flushing Calculations

Soil Dissolution -

Depth of Unsat contamination (ft)	7					
Average Soil concentration (mg/kg)	7.53					
Assumed density (lbs/cubic foot)	100			Kv	1.5	ft/day
Mass contaminated Soil (lbs)	1,470,000	666,780	kg	porosity	0.2	unitless
Initial Contaminant Mass (mg)	5,017,521			gradient	1	ft/ft
Recharge Rate (in/year)	1.00	2.28E-04	ft/day	unsat depth	7	ft
Surface Area (sq.ft)	2100					
Flow per day (CFD)	0.48	13.58	L/day	v	7.5	ft/day
PCE Solubility (mg/L)	150					
Daily Dissolution (mg/D)	2,036			Mass Dissolution:	Total Days	Total Years
					2464	7

Year	Day	Mass Remaining	Conc. mg/L
0.003	1	5,015,485	75
0.005	2	5,013,448	74.97
0.008	3	5,011,412	74.94
0.011	4	5,009,375	74.91
0.014	5	5,007,339	74.88
0.016	6	5,005,302	74.85
0.019	7	5,003,266	74.82
0.022	8	5,001,229	74.79
0.025	9	4,999,193	74.76
0.027	10	4,997,156	74.73
0.030	11	4,995,120	74.70
0.033	12	4,993,084	74.67
0.036	13	4,991,047	74.64
0.038	14	4,989,011	74.61
0.041	15	4,986,974	74.58
0.044	16	4,984,938	74.55
0.047	17	4,982,901	74.52
0.049	18	4,980,865	74.49
0.052	19	4,978,828	74.46
0.055	20	4,976,792	74.43
0.058	21	4,974,755	74.40
0.060	22	4,972,719	74.37
0.063	23	4,970,682	74.34
0.066	24	4,968,646	74.31
0.068	25	4,966,609	74.28
0.071	26	4,964,573	74.25
0.074	27	4,962,536	74.22
0.077	28	4,960,500	74.19
0.079	29	4,958,463	74.16
0.082	30	4,956,427	74.13
0.085	31	4,954,390	74.10
0.088	32	4,952,354	74.07
0.090	33	4,950,317	74.04
0.093	34	4,948,281	74.01
0.096	35	4,946,244	73.98
0.099	36	4,944,208	73.95
0.101	37	4,942,171	73.92
0.104	38	4,940,135	73.89
0.107	39	4,938,099	73.86
0.110	40	4,936,062	73.83

	Year Post Remediation	Days Post Remediation	Conc. (mg/L)
0.03		0	75
	1	365	64
	2	730	53
	3	1095	42
	4	1460	31
	5	1825	20
	6	2190	9
	7	2555	1

Year	Day	Mass Remaining	Conc. mg/L
0.112	41	4,934,026	73.80
0.115	42	4,931,989	73.77
0.118	43	4,929,953	73.74
0.121	44	4,927,916	73.71
0.123	45	4,925,880	73.68
0.126	46	4,923,843	73.65
0.129	47	4,921,807	73.62
0.132	48	4,919,770	73.59
0.134	49	4,917,734	73.56
0.137	50	4,915,697	73.53
0.140	51	4,913,661	73.50
0.142	52	4,911,624	73.47
0.145	53	4,909,588	73.44
0.148	54	4,907,551	73.41
0.151	55	4,905,515	73.38
0.153	56	4,903,478	73.35
0.156	57	4,901,442	73.32
0.159	58	4,899,405	73.29
0.162	59	4,897,369	73.26
0.164	60	4,895,332	73.23
0.167	61	4,893,296	73.20
0.170	62	4,891,259	73.17
0.173	63	4,889,223	73.14
0.175	64	4,887,186	73.11
0.178	65	4,885,150	73.08
0.181	66	4,883,113	73.05
0.184	67	4,881,077	73.02
0.186	68	4,879,041	72.99
0.189	69	4,877,004	72.96
0.192	70	4,874,968	72.93
0.195	71	4,872,931	72.90
0.197	72	4,870,895	72.87
0.200	73	4,868,858	72.84
0.203	74	4,866,822	72.81
0.205	75	4,864,785	72.78
0.208	76	4,862,749	72.75
0.211	77	4,860,712	72.72
0.214	78	4,858,676	72.69
0.216	79	4,856,639	72.66
0.219	80	4,854,603	72.63
0.222	81	4,852,566	72.60
0.225	82	4,850,530	72.57
0.227	83	4,848,493	72.54
0.230	84	4,846,457	72.51
0.233	85	4,844,420	72.48
0.236	86	4,842,384	72.45
0.238	87	4,840,347	72.42
0.241	88	4,838,311	72.39
0.244	89	4,836,274	72.36
0.247	90	4,834,238	72.33
0.249	91	4,832,201	72.30
0.252	92	4,830,165	72.27

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
0.255	93	4,828,128	72.24
0.258	94	4,826,092	72.21
0.260	95	4,824,055	72.18
0.263	96	4,822,019	72.15
0.266	97	4,819,983	72.12
0.268	98	4,817,946	72.09
0.271	99	4,815,910	72.06
0.274	100	4,813,873	72.03
0.277	101	4,811,837	72.00
0.279	102	4,809,800	71.97
0.282	103	4,807,764	71.94
0.285	104	4,805,727	71.91
0.288	105	4,803,691	71.88
0.290	106	4,801,654	71.85
0.293	107	4,799,618	71.82
0.296	108	4,797,581	71.79
0.299	109	4,795,545	71.76
0.301	110	4,793,508	71.73
0.304	111	4,791,472	71.70
0.307	112	4,789,435	71.67
0.310	113	4,787,399	71.63
0.312	114	4,785,362	71.60
0.315	115	4,783,326	71.57
0.318	116	4,781,289	71.54
0.321	117	4,779,253	71.51
0.323	118	4,777,216	71.48
0.326	119	4,775,180	71.45
0.329	120	4,773,143	71.42
0.332	121	4,771,107	71.39
0.334	122	4,769,070	71.36
0.337	123	4,767,034	71.33
0.340	124	4,764,998	71.30
0.342	125	4,762,961	71.27
0.345	126	4,760,925	71.24
0.348	127	4,758,888	71.21
0.351	128	4,756,852	71.18
0.353	129	4,754,815	71.15
0.356	130	4,752,779	71.12
0.359	131	4,750,742	71.09
0.362	132	4,748,706	71.06
0.364	133	4,746,669	71.03
0.367	134	4,744,633	71.00
0.370	135	4,742,596	70.97
0.373	136	4,740,560	70.94
0.375	137	4,738,523	70.91
0.378	138	4,736,487	70.88
0.381	139	4,734,450	70.85
0.384	140	4,732,414	70.82
0.386	141	4,730,377	70.79
0.389	142	4,728,341	70.76
0.392	143	4,726,304	70.73
0.395	144	4,724,268	70.70

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
0.397	145	4,722,231	70.67
0.400	146	4,720,195	70.64
0.403	147	4,718,158	70.61
0.405	148	4,716,122	70.58
0.408	149	4,714,085	70.55
0.411	150	4,712,049	70.52
0.414	151	4,710,012	70.49
0.416	152	4,707,976	70.46
0.419	153	4,705,940	70.43
0.422	154	4,703,903	70.40
0.425	155	4,701,867	70.37
0.427	156	4,699,830	70.34
0.430	157	4,697,794	70.31
0.433	158	4,695,757	70.28
0.436	159	4,693,721	70.25
0.438	160	4,691,684	70.22
0.441	161	4,689,648	70.19
0.444	162	4,687,611	70.16
0.447	163	4,685,575	70.13
0.449	164	4,683,538	70.10
0.452	165	4,681,502	70.07
0.455	166	4,679,465	70.04
0.458	167	4,677,429	70.01
0.460	168	4,675,392	69.98
0.463	169	4,673,356	69.95
0.466	170	4,671,319	69.92
0.468	171	4,669,283	69.89
0.471	172	4,667,246	69.86
0.474	173	4,665,210	69.83
0.477	174	4,663,173	69.80
0.479	175	4,661,137	69.77
0.482	176	4,659,100	69.74
0.485	177	4,657,064	69.71
0.488	178	4,655,027	69.68
0.490	179	4,652,991	69.65
0.493	180	4,650,955	69.62
0.496	181	4,648,918	69.59
0.499	182	4,646,882	69.56
0.501	183	4,644,845	69.53
0.504	184	4,642,809	69.50
0.507	185	4,640,772	69.47
0.510	186	4,638,736	69.44
0.512	187	4,636,699	69.41
0.515	188	4,634,663	69.38
0.518	189	4,632,626	69.35
0.521	190	4,630,590	69.32
0.523	191	4,628,553	69.29
0.526	192	4,626,517	69.26
0.529	193	4,624,480	69.23
0.532	194	4,622,444	69.20
0.534	195	4,620,407	69.17
0.537	196	4,618,371	69.14

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
0.540	197	4,616,334	69.11
0.542	198	4,614,298	69.08
0.545	199	4,612,261	69.05
0.548	200	4,610,225	69.02
0.551	201	4,608,188	68.99
0.553	202	4,606,152	68.96
0.556	203	4,604,115	68.93
0.559	204	4,602,079	68.90
0.562	205	4,600,042	68.87
0.564	206	4,598,006	68.84
0.567	207	4,595,969	68.81
0.570	208	4,593,933	68.78
0.573	209	4,591,897	68.75
0.575	210	4,589,860	68.72
0.578	211	4,587,824	68.69
0.581	212	4,585,787	68.66
0.584	213	4,583,751	68.63
0.586	214	4,581,714	68.60
0.589	215	4,579,678	68.57
0.592	216	4,577,641	68.54
0.595	217	4,575,605	68.51
0.597	218	4,573,568	68.48
0.600	219	4,571,532	68.45
0.603	220	4,569,495	68.42
0.605	221	4,567,459	68.39
0.608	222	4,565,422	68.36
0.611	223	4,563,386	68.33
0.614	224	4,561,349	68.30
0.616	225	4,559,313	68.27
0.619	226	4,557,276	68.24
0.622	227	4,555,240	68.21
0.625	228	4,553,203	68.18
0.627	229	4,551,167	68.15
0.630	230	4,549,130	68.12
0.633	231	4,547,094	68.09
0.636	232	4,545,057	68.06
0.638	233	4,543,021	68.03
0.641	234	4,540,984	68.00
0.644	235	4,538,948	67.97
0.647	236	4,536,912	67.94
0.649	237	4,534,875	67.91
0.652	238	4,532,839	67.88
0.655	239	4,530,802	67.85
0.658	240	4,528,766	67.82
0.660	241	4,526,729	67.79
0.663	242	4,524,693	67.76
0.666	243	4,522,656	67.73
0.668	244	4,520,620	67.70
0.671	245	4,518,583	67.67
0.674	246	4,516,547	67.64
0.677	247	4,514,510	67.61
0.679	248	4,512,474	67.58

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
0.682	249	4,510,437	67.55
0.685	250	4,508,401	67.52
0.688	251	4,506,364	67.49
0.690	252	4,504,328	67.46
0.693	253	4,502,291	67.43
0.696	254	4,500,255	67.40
0.699	255	4,498,218	67.37
0.701	256	4,496,182	67.34
0.704	257	4,494,145	67.31
0.707	258	4,492,109	67.28
0.710	259	4,490,072	67.25
0.712	260	4,488,036	67.22
0.715	261	4,485,999	67.19
0.718	262	4,483,963	67.16
0.721	263	4,481,926	67.13
0.723	264	4,479,890	67.10
0.726	265	4,477,854	67.07
0.729	266	4,475,817	67.04
0.732	267	4,473,781	67.01
0.734	268	4,471,744	66.98
0.737	269	4,469,708	66.95
0.740	270	4,467,671	66.92
0.742	271	4,465,635	66.89
0.745	272	4,463,598	66.86
0.748	273	4,461,562	66.83
0.751	274	4,459,525	66.80
0.753	275	4,457,489	66.77
0.756	276	4,455,452	66.74
0.759	277	4,453,416	66.71
0.762	278	4,451,379	66.68
0.764	279	4,449,343	66.65
0.767	280	4,447,306	66.62
0.770	281	4,445,270	66.59
0.773	282	4,443,233	66.56
0.775	283	4,441,197	66.53
0.778	284	4,439,160	66.50
0.781	285	4,437,124	66.47
0.784	286	4,435,087	66.44
0.786	287	4,433,051	66.41
0.789	288	4,431,014	66.38
0.792	289	4,428,978	66.35
0.795	290	4,426,941	66.32
0.797	291	4,424,905	66.29
0.800	292	4,422,869	66.26
0.803	293	4,420,832	66.23
0.805	294	4,418,796	66.20
0.808	295	4,416,759	66.17
0.811	296	4,414,723	66.14
0.814	297	4,412,686	66.11
0.816	298	4,410,650	66.08
0.819	299	4,408,613	66.05
0.822	300	4,406,577	66.02

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
0.825	301	4,404,540	65.99
0.827	302	4,402,504	65.96
0.830	303	4,400,467	65.93
0.833	304	4,398,431	65.90
0.836	305	4,396,394	65.87
0.838	306	4,394,358	65.84
0.841	307	4,392,321	65.81
0.844	308	4,390,285	65.78
0.847	309	4,388,248	65.75
0.849	310	4,386,212	65.72
0.852	311	4,384,175	65.69
0.855	312	4,382,139	65.66
0.858	313	4,380,102	65.63
0.860	314	4,378,066	65.60
0.863	315	4,376,029	65.57
0.866	316	4,373,993	65.54
0.868	317	4,371,956	65.51
0.871	318	4,369,920	65.48
0.874	319	4,367,883	65.45
0.877	320	4,365,847	65.42
0.879	321	4,363,811	65.39
0.882	322	4,361,774	65.36
0.885	323	4,359,738	65.33
0.888	324	4,357,701	65.30
0.890	325	4,355,665	65.27
0.893	326	4,353,628	65.24
0.896	327	4,351,592	65.21
0.899	328	4,349,555	65.18
0.901	329	4,347,519	65.15
0.904	330	4,345,482	65.12
0.907	331	4,343,446	65.09
0.910	332	4,341,409	65.06
0.912	333	4,339,373	65.03
0.915	334	4,337,336	65.00
0.918	335	4,335,300	64.97
0.921	336	4,333,263	64.94
0.923	337	4,331,227	64.90
0.926	338	4,329,190	64.87
0.929	339	4,327,154	64.84
0.932	340	4,325,117	64.81
0.934	341	4,323,081	64.78
0.937	342	4,321,044	64.75
0.940	343	4,319,008	64.72
0.942	344	4,316,971	64.69
0.945	345	4,314,935	64.66
0.948	346	4,312,898	64.63
0.951	347	4,310,862	64.60
0.953	348	4,308,826	64.57
0.956	349	4,306,789	64.54
0.959	350	4,304,753	64.51
0.962	351	4,302,716	64.48
0.964	352	4,300,680	64.45

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
0.967	353	4,298,643	64.42
0.970	354	4,296,607	64.39
0.973	355	4,294,570	64.36
0.975	356	4,292,534	64.33
0.978	357	4,290,497	64.30
0.981	358	4,288,461	64.27
0.984	359	4,286,424	64.24
0.986	360	4,284,388	64.21
0.989	361	4,282,351	64.18
0.992	362	4,280,315	64.15
0.995	363	4,278,278	64.12
0.997	364	4,276,242	64.09
1.000	365	4,274,205	64.06
1.003	366	4,272,169	64.03
1.005	367	4,270,132	64.00
1.008	368	4,268,096	63.97
1.011	369	4,266,059	63.94
1.014	370	4,264,023	63.91
1.016	371	4,261,986	63.88
1.019	372	4,259,950	63.85
1.022	373	4,257,913	63.82
1.025	374	4,255,877	63.79
1.027	375	4,253,840	63.76
1.030	376	4,251,804	63.73
1.033	377	4,249,768	63.70
1.036	378	4,247,731	63.67
1.038	379	4,245,695	63.64
1.041	380	4,243,658	63.61
1.044	381	4,241,622	63.58
1.047	382	4,239,585	63.55
1.049	383	4,237,549	63.52
1.052	384	4,235,512	63.49
1.055	385	4,233,476	63.46
1.058	386	4,231,439	63.43
1.060	387	4,229,403	63.40
1.063	388	4,227,366	63.37
1.066	389	4,225,330	63.34
1.068	390	4,223,293	63.31
1.071	391	4,221,257	63.28
1.074	392	4,219,220	63.25
1.077	393	4,217,184	63.22
1.079	394	4,215,147	63.19
1.082	395	4,213,111	63.16
1.085	396	4,211,074	63.13
1.088	397	4,209,038	63.10
1.090	398	4,207,001	63.07
1.093	399	4,204,965	63.04
1.096	400	4,202,928	63.01
1.099	401	4,200,892	62.98
1.101	402	4,198,855	62.95
1.104	403	4,196,819	62.92
1.107	404	4,194,783	62.89

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
1.110	405	4,192,746	62.86
1.112	406	4,190,710	62.83
1.115	407	4,188,673	62.80
1.118	408	4,186,637	62.77
1.121	409	4,184,600	62.74
1.123	410	4,182,564	62.71
1.126	411	4,180,527	62.68
1.129	412	4,178,491	62.65
1.132	413	4,176,454	62.62
1.134	414	4,174,418	62.59
1.137	415	4,172,381	62.56
1.140	416	4,170,345	62.53
1.142	417	4,168,308	62.50
1.145	418	4,166,272	62.47
1.148	419	4,164,235	62.44
1.151	420	4,162,199	62.41
1.153	421	4,160,162	62.38
1.156	422	4,158,126	62.35
1.159	423	4,156,089	62.32
1.162	424	4,154,053	62.29
1.164	425	4,152,016	62.26
1.167	426	4,149,980	62.23
1.170	427	4,147,943	62.20
1.173	428	4,145,907	62.17
1.175	429	4,143,870	62.14
1.178	430	4,141,834	62.11
1.181	431	4,139,797	62.08
1.184	432	4,137,761	62.05
1.186	433	4,135,725	62.02
1.189	434	4,133,688	61.99
1.192	435	4,131,652	61.96
1.195	436	4,129,615	61.93
1.197	437	4,127,579	61.90
1.200	438	4,125,542	61.87
1.203	439	4,123,506	61.84
1.205	440	4,121,469	61.81
1.208	441	4,119,433	61.78
1.211	442	4,117,396	61.75
1.214	443	4,115,360	61.72
1.216	444	4,113,323	61.69
1.219	445	4,111,287	61.66
1.222	446	4,109,250	61.63
1.225	447	4,107,214	61.60
1.227	448	4,105,177	61.57
1.230	449	4,103,141	61.54
1.233	450	4,101,104	61.51
1.236	451	4,099,068	61.48
1.238	452	4,097,031	61.45
1.241	453	4,094,995	61.42
1.244	454	4,092,958	61.39
1.247	455	4,090,922	61.36
1.249	456	4,088,885	61.33

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
1.252	457	4,086,849	61.30
1.255	458	4,084,812	61.27
1.258	459	4,082,776	61.24
1.260	460	4,080,739	61.21
1.263	461	4,078,703	61.18
1.266	462	4,076,667	61.15
1.268	463	4,074,630	61.12
1.271	464	4,072,594	61.09
1.274	465	4,070,557	61.06
1.277	466	4,068,521	61.03
1.279	467	4,066,484	61.00
1.282	468	4,064,448	60.97
1.285	469	4,062,411	60.94
1.288	470	4,060,375	60.91
1.290	471	4,058,338	60.88
1.293	472	4,056,302	60.85
1.296	473	4,054,265	60.82
1.299	474	4,052,229	60.79
1.301	475	4,050,192	60.76
1.304	476	4,048,156	60.73
1.307	477	4,046,119	60.70
1.310	478	4,044,083	60.67
1.312	479	4,042,046	60.64
1.315	480	4,040,010	60.61
1.318	481	4,037,973	60.58
1.321	482	4,035,937	60.55
1.323	483	4,033,900	60.52
1.326	484	4,031,864	60.49
1.329	485	4,029,827	60.46
1.332	486	4,027,791	60.43
1.334	487	4,025,754	60.40
1.337	488	4,023,718	60.37
1.340	489	4,021,682	60.34
1.342	490	4,019,645	60.31
1.345	491	4,017,609	60.28
1.348	492	4,015,572	60.25
1.351	493	4,013,536	60.22
1.353	494	4,011,499	60.19
1.356	495	4,009,463	60.16
1.359	496	4,007,426	60.13
1.362	497	4,005,390	60.10
1.364	498	4,003,353	60.07
1.367	499	4,001,317	60.04
1.370	500	3,999,280	60.01
1.373	501	3,997,244	59.98
1.375	502	3,995,207	59.95
1.378	503	3,993,171	59.92
1.381	504	3,991,134	59.89
1.384	505	3,989,098	59.86
1.386	506	3,987,061	59.83
1.389	507	3,985,025	59.80
1.392	508	3,982,988	59.77

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
1.395	509	3,980,952	59.74
1.397	510	3,978,915	59.71
1.400	511	3,976,879	59.68
1.403	512	3,974,842	59.65
1.405	513	3,972,806	59.62
1.408	514	3,970,769	59.59
1.411	515	3,968,733	59.56
1.414	516	3,966,696	59.53
1.416	517	3,964,660	59.50
1.419	518	3,962,624	59.47
1.422	519	3,960,587	59.44
1.425	520	3,958,551	59.41
1.427	521	3,956,514	59.38
1.430	522	3,954,478	59.35
1.433	523	3,952,441	59.32
1.436	524	3,950,405	59.29
1.438	525	3,948,368	59.26
1.441	526	3,946,332	59.23
1.444	527	3,944,295	59.20
1.447	528	3,942,259	59.17
1.449	529	3,940,222	59.14
1.452	530	3,938,186	59.11
1.455	531	3,936,149	59.08
1.458	532	3,934,113	59.05
1.460	533	3,932,076	59.02
1.463	534	3,930,040	58.99
1.466	535	3,928,003	58.96
1.468	536	3,925,967	58.93
1.471	537	3,923,930	58.90
1.474	538	3,921,894	58.87
1.477	539	3,919,857	58.84
1.479	540	3,917,821	58.81
1.482	541	3,915,784	58.78
1.485	542	3,913,748	58.75
1.488	543	3,911,711	58.72
1.490	544	3,909,675	58.69
1.493	545	3,907,639	58.66
1.496	546	3,905,602	58.63
1.499	547	3,903,566	58.60
1.501	548	3,901,529	58.57
1.504	549	3,899,493	58.54
1.507	550	3,897,456	58.51
1.510	551	3,895,420	58.48
1.512	552	3,893,383	58.45
1.515	553	3,891,347	58.42
1.518	554	3,889,310	58.39
1.521	555	3,887,274	58.36
1.523	556	3,885,237	58.33
1.526	557	3,883,201	58.30
1.529	558	3,881,164	58.27
1.532	559	3,879,128	58.24
1.534	560	3,877,091	58.21

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
1.537	561	3,875,055	58.17
1.540	562	3,873,018	58.14
1.542	563	3,870,982	58.11
1.545	564	3,868,945	58.08
1.548	565	3,866,909	58.05
1.551	566	3,864,872	58.02
1.553	567	3,862,836	57.99
1.556	568	3,860,799	57.96
1.559	569	3,858,763	57.93
1.562	570	3,856,726	57.90
1.564	571	3,854,690	57.87
1.567	572	3,852,653	57.84
1.570	573	3,850,617	57.81
1.573	574	3,848,581	57.78
1.575	575	3,846,544	57.75
1.578	576	3,844,508	57.72
1.581	577	3,842,471	57.69
1.584	578	3,840,435	57.66
1.586	579	3,838,398	57.63
1.589	580	3,836,362	57.60
1.592	581	3,834,325	57.57
1.595	582	3,832,289	57.54
1.597	583	3,830,252	57.51
1.600	584	3,828,216	57.48
1.603	585	3,826,179	57.45
1.605	586	3,824,143	57.42
1.608	587	3,822,106	57.39
1.611	588	3,820,070	57.36
1.614	589	3,818,033	57.33
1.616	590	3,815,997	57.30
1.619	591	3,813,960	57.27
1.622	592	3,811,924	57.24
1.625	593	3,809,887	57.21
1.627	594	3,807,851	57.18
1.630	595	3,805,814	57.15
1.633	596	3,803,778	57.12
1.636	597	3,801,741	57.09
1.638	598	3,799,705	57.06
1.641	599	3,797,668	57.03
1.644	600	3,795,632	57.00
1.647	601	3,793,596	56.97
1.649	602	3,791,559	56.94
1.652	603	3,789,523	56.91
1.655	604	3,787,486	56.88
1.658	605	3,785,450	56.85
1.660	606	3,783,413	56.82
1.663	607	3,781,377	56.79
1.666	608	3,779,340	56.76
1.668	609	3,777,304	56.73
1.671	610	3,775,267	56.70
1.674	611	3,773,231	56.67
1.677	612	3,771,194	56.64

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
1.679	613	3,769,158	56.61
1.682	614	3,767,121	56.58
1.685	615	3,765,085	56.55
1.688	616	3,763,048	56.52
1.690	617	3,761,012	56.49
1.693	618	3,758,975	56.46
1.696	619	3,756,939	56.43
1.699	620	3,754,902	56.40
1.701	621	3,752,866	56.37
1.704	622	3,750,829	56.34
1.707	623	3,748,793	56.31
1.710	624	3,746,756	56.28
1.712	625	3,744,720	56.25
1.715	626	3,742,683	56.22
1.718	627	3,740,647	56.19
1.721	628	3,738,610	56.16
1.723	629	3,736,574	56.13
1.726	630	3,734,538	56.10
1.729	631	3,732,501	56.07
1.732	632	3,730,465	56.04
1.734	633	3,728,428	56.01
1.737	634	3,726,392	55.98
1.740	635	3,724,355	55.95
1.742	636	3,722,319	55.92
1.745	637	3,720,282	55.89
1.748	638	3,718,246	55.86
1.751	639	3,716,209	55.83
1.753	640	3,714,173	55.80
1.756	641	3,712,136	55.77
1.759	642	3,710,100	55.74
1.762	643	3,708,063	55.71
1.764	644	3,706,027	55.68
1.767	645	3,703,990	55.65
1.770	646	3,701,954	55.62
1.773	647	3,699,917	55.59
1.775	648	3,697,881	55.56
1.778	649	3,695,844	55.53
1.781	650	3,693,808	55.50
1.784	651	3,691,771	55.47
1.786	652	3,689,735	55.44
1.789	653	3,687,698	55.41
1.792	654	3,685,662	55.38
1.795	655	3,683,625	55.35
1.797	656	3,681,589	55.32
1.800	657	3,679,553	55.29
1.803	658	3,677,516	55.26
1.805	659	3,675,480	55.23
1.808	660	3,673,443	55.20
1.811	661	3,671,407	55.17
1.814	662	3,669,370	55.14
1.816	663	3,667,334	55.11
1.819	664	3,665,297	55.08

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
1.822	665	3,663,261	55.05
1.825	666	3,661,224	55.02
1.827	667	3,659,188	54.99
1.830	668	3,657,151	54.96
1.833	669	3,655,115	54.93
1.836	670	3,653,078	54.90
1.838	671	3,651,042	54.87
1.841	672	3,649,005	54.84
1.844	673	3,646,969	54.81
1.847	674	3,644,932	54.78
1.849	675	3,642,896	54.75
1.852	676	3,640,859	54.72
1.855	677	3,638,823	54.69
1.858	678	3,636,786	54.66
1.860	679	3,634,750	54.63
1.863	680	3,632,713	54.60
1.866	681	3,630,677	54.57
1.868	682	3,628,640	54.54
1.871	683	3,626,604	54.51
1.874	684	3,624,567	54.48
1.877	685	3,622,531	54.45
1.879	686	3,620,495	54.42
1.882	687	3,618,458	54.39
1.885	688	3,616,422	54.36
1.888	689	3,614,385	54.33
1.890	690	3,612,349	54.30
1.893	691	3,610,312	54.27
1.896	692	3,608,276	54.24
1.899	693	3,606,239	54.21
1.901	694	3,604,203	54.18
1.904	695	3,602,166	54.15
1.907	696	3,600,130	54.12
1.910	697	3,598,093	54.09
1.912	698	3,596,057	54.06
1.915	699	3,594,020	54.03
1.918	700	3,591,984	54.00
1.921	701	3,589,947	53.97
1.923	702	3,587,911	53.94
1.926	703	3,585,874	53.91
1.929	704	3,583,838	53.88
1.932	705	3,581,801	53.85
1.934	706	3,579,765	53.82
1.937	707	3,577,728	53.79
1.940	708	3,575,692	53.76
1.942	709	3,573,655	53.73
1.945	710	3,571,619	53.70
1.948	711	3,569,582	53.67
1.951	712	3,567,546	53.64
1.953	713	3,565,510	53.61
1.956	714	3,563,473	53.58
1.959	715	3,561,437	53.55
1.962	716	3,559,400	53.52

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
1.964	717	3,557,364	53.49
1.967	718	3,555,327	53.46
1.970	719	3,553,291	53.43
1.973	720	3,551,254	53.40
1.975	721	3,549,218	53.37
1.978	722	3,547,181	53.34
1.981	723	3,545,145	53.31
1.984	724	3,543,108	53.28
1.986	725	3,541,072	53.25
1.989	726	3,539,035	53.22
1.992	727	3,536,999	53.19
1.995	728	3,534,962	53.16
1.997	729	3,532,926	53.13
2.000	730	3,530,889	53.10
2.003	731	3,528,853	53.07
2.005	732	3,526,816	53.04
2.008	733	3,524,780	53.01
2.011	734	3,522,743	52.98
2.014	735	3,520,707	52.95
2.016	736	3,518,670	52.92
2.019	737	3,516,634	52.89
2.022	738	3,514,597	52.86
2.025	739	3,512,561	52.83
2.027	740	3,510,524	52.80
2.030	741	3,508,488	52.77
2.033	742	3,506,452	52.74
2.036	743	3,504,415	52.71
2.038	744	3,502,379	52.68
2.041	745	3,500,342	52.65
2.044	746	3,498,306	52.62
2.047	747	3,496,269	52.59
2.049	748	3,494,233	52.56
2.052	749	3,492,196	52.53
2.055	750	3,490,160	52.50
2.058	751	3,488,123	52.47
2.060	752	3,486,087	52.44
2.063	753	3,484,050	52.41
2.066	754	3,482,014	52.38
2.068	755	3,479,977	52.35
2.071	756	3,477,941	52.32
2.074	757	3,475,904	52.29
2.077	758	3,473,868	52.26
2.079	759	3,471,831	52.23
2.082	760	3,469,795	52.20
2.085	761	3,467,758	52.17
2.088	762	3,465,722	52.14
2.090	763	3,463,685	52.11
2.093	764	3,461,649	52.08
2.096	765	3,459,612	52.05
2.099	766	3,457,576	52.02
2.101	767	3,455,539	51.99
2.104	768	3,453,503	51.96

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
2.107	769	3,451,467	51.93
2.110	770	3,449,430	51.90
2.112	771	3,447,394	51.87
2.115	772	3,445,357	51.84
2.118	773	3,443,321	51.81
2.121	774	3,441,284	51.78
2.123	775	3,439,248	51.75
2.126	776	3,437,211	51.72
2.129	777	3,435,175	51.69
2.132	778	3,433,138	51.66
2.134	779	3,431,102	51.63
2.137	780	3,429,065	51.60
2.140	781	3,427,029	51.57
2.142	782	3,424,992	51.54
2.145	783	3,422,956	51.51
2.148	784	3,420,919	51.48
2.151	785	3,418,883	51.44
2.153	786	3,416,846	51.41
2.156	787	3,414,810	51.38
2.159	788	3,412,773	51.35
2.162	789	3,410,737	51.32
2.164	790	3,408,700	51.29
2.167	791	3,406,664	51.26
2.170	792	3,404,627	51.23
2.173	793	3,402,591	51.20
2.175	794	3,400,554	51.17
2.178	795	3,398,518	51.14
2.181	796	3,396,481	51.11
2.184	797	3,394,445	51.08
2.186	798	3,392,409	51.05
2.189	799	3,390,372	51.02
2.192	800	3,388,336	50.99
2.195	801	3,386,299	50.96
2.197	802	3,384,263	50.93
2.200	803	3,382,226	50.90
2.203	804	3,380,190	50.87
2.205	805	3,378,153	50.84
2.208	806	3,376,117	50.81
2.211	807	3,374,080	50.78
2.214	808	3,372,044	50.75
2.216	809	3,370,007	50.72
2.219	810	3,367,971	50.69
2.222	811	3,365,934	50.66
2.225	812	3,363,898	50.63
2.227	813	3,361,861	50.60
2.230	814	3,359,825	50.57
2.233	815	3,357,788	50.54
2.236	816	3,355,752	50.51
2.238	817	3,353,715	50.48
2.241	818	3,351,679	50.45
2.244	819	3,349,642	50.42
2.247	820	3,347,606	50.39

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
2.249	821	3,345,569	50.36
2.252	822	3,343,533	50.33
2.255	823	3,341,496	50.30
2.258	824	3,339,460	50.27
2.260	825	3,337,423	50.24
2.263	826	3,335,387	50.21
2.266	827	3,333,351	50.18
2.268	828	3,331,314	50.15
2.271	829	3,329,278	50.12
2.274	830	3,327,241	50.09
2.277	831	3,325,205	50.06
2.279	832	3,323,168	50.03
2.282	833	3,321,132	50.00
2.285	834	3,319,095	49.97
2.288	835	3,317,059	49.94
2.290	836	3,315,022	49.91
2.293	837	3,312,986	49.88
2.296	838	3,310,949	49.85
2.299	839	3,308,913	49.82
2.301	840	3,306,876	49.79
2.304	841	3,304,840	49.76
2.307	842	3,302,803	49.73
2.310	843	3,300,767	49.70
2.312	844	3,298,730	49.67
2.315	845	3,296,694	49.64
2.318	846	3,294,657	49.61
2.321	847	3,292,621	49.58
2.323	848	3,290,584	49.55
2.326	849	3,288,548	49.52
2.329	850	3,286,511	49.49
2.332	851	3,284,475	49.46
2.334	852	3,282,438	49.43
2.337	853	3,280,402	49.40
2.340	854	3,278,366	49.37
2.342	855	3,276,329	49.34
2.345	856	3,274,293	49.31
2.348	857	3,272,256	49.28
2.351	858	3,270,220	49.25
2.353	859	3,268,183	49.22
2.356	860	3,266,147	49.19
2.359	861	3,264,110	49.16
2.362	862	3,262,074	49.13
2.364	863	3,260,037	49.10
2.367	864	3,258,001	49.07
2.370	865	3,255,964	49.04
2.373	866	3,253,928	49.01
2.375	867	3,251,891	48.98
2.378	868	3,249,855	48.95
2.381	869	3,247,818	48.92
2.384	870	3,245,782	48.89
2.386	871	3,243,745	48.86
2.389	872	3,241,709	48.83

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
2.392	873	3,239,672	48.80
2.395	874	3,237,636	48.77
2.397	875	3,235,599	48.74
2.400	876	3,233,563	48.71
2.403	877	3,231,526	48.68
2.405	878	3,229,490	48.65
2.408	879	3,227,453	48.62
2.411	880	3,225,417	48.59
2.414	881	3,223,380	48.56
2.416	882	3,221,344	48.53
2.419	883	3,219,308	48.50
2.422	884	3,217,271	48.47
2.425	885	3,215,235	48.44
2.427	886	3,213,198	48.41
2.430	887	3,211,162	48.38
2.433	888	3,209,125	48.35
2.436	889	3,207,089	48.32
2.438	890	3,205,052	48.29
2.441	891	3,203,016	48.26
2.444	892	3,200,979	48.23
2.447	893	3,198,943	48.20
2.449	894	3,196,906	48.17
2.452	895	3,194,870	48.14
2.455	896	3,192,833	48.11
2.458	897	3,190,797	48.08
2.460	898	3,188,760	48.05
2.463	899	3,186,724	48.02
2.466	900	3,184,687	47.99
2.468	901	3,182,651	47.96
2.471	902	3,180,614	47.93
2.474	903	3,178,578	47.90
2.477	904	3,176,541	47.87
2.479	905	3,174,505	47.84
2.482	906	3,172,468	47.81
2.485	907	3,170,432	47.78
2.488	908	3,168,395	47.75
2.490	909	3,166,359	47.72
2.493	910	3,164,323	47.69
2.496	911	3,162,286	47.66
2.499	912	3,160,250	47.63
2.501	913	3,158,213	47.60
2.504	914	3,156,177	47.57
2.507	915	3,154,140	47.54
2.510	916	3,152,104	47.51
2.512	917	3,150,067	47.48
2.515	918	3,148,031	47.45
2.518	919	3,145,994	47.42
2.521	920	3,143,958	47.39
2.523	921	3,141,921	47.36
2.526	922	3,139,885	47.33
2.529	923	3,137,848	47.30
2.532	924	3,135,812	47.27

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
2.534	925	3,133,775	47.24
2.537	926	3,131,739	47.21
2.540	927	3,129,702	47.18
2.542	928	3,127,666	47.15
2.545	929	3,125,629	47.12
2.548	930	3,123,593	47.09
2.551	931	3,121,556	47.06
2.553	932	3,119,520	47.03
2.556	933	3,117,483	47.00
2.559	934	3,115,447	46.97
2.562	935	3,113,410	46.94
2.564	936	3,111,374	46.91
2.567	937	3,109,337	46.88
2.570	938	3,107,301	46.85
2.573	939	3,105,265	46.82
2.575	940	3,103,228	46.79
2.578	941	3,101,192	46.76
2.581	942	3,099,155	46.73
2.584	943	3,097,119	46.70
2.586	944	3,095,082	46.67
2.589	945	3,093,046	46.64
2.592	946	3,091,009	46.61
2.595	947	3,088,973	46.58
2.597	948	3,086,936	46.55
2.600	949	3,084,900	46.52
2.603	950	3,082,863	46.49
2.605	951	3,080,827	46.46
2.608	952	3,078,790	46.43
2.611	953	3,076,754	46.40
2.614	954	3,074,717	46.37
2.616	955	3,072,681	46.34
2.619	956	3,070,644	46.31
2.622	957	3,068,608	46.28
2.625	958	3,066,571	46.25
2.627	959	3,064,535	46.22
2.630	960	3,062,498	46.19
2.633	961	3,060,462	46.16
2.636	962	3,058,425	46.13
2.638	963	3,056,389	46.10
2.641	964	3,054,352	46.07
2.644	965	3,052,316	46.04
2.647	966	3,050,280	46.01
2.649	967	3,048,243	45.98
2.652	968	3,046,207	45.95
2.655	969	3,044,170	45.92
2.658	970	3,042,134	45.89
2.660	971	3,040,097	45.86
2.663	972	3,038,061	45.83
2.666	973	3,036,024	45.80
2.668	974	3,033,988	45.77
2.671	975	3,031,951	45.74
2.674	976	3,029,915	45.71

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
2.677	977	3,027,878	45.68
2.679	978	3,025,842	45.65
2.682	979	3,023,805	45.62
2.685	980	3,021,769	45.59
2.688	981	3,019,732	45.56
2.690	982	3,017,696	45.53
2.693	983	3,015,659	45.50
2.696	984	3,013,623	45.47
2.699	985	3,011,586	45.44
2.701	986	3,009,550	45.41
2.704	987	3,007,513	45.38
2.707	988	3,005,477	45.35
2.710	989	3,003,440	45.32
2.712	990	3,001,404	45.29
2.715	991	2,999,367	45.26
2.718	992	2,997,331	45.23
2.721	993	2,995,294	45.20
2.723	994	2,993,258	45.17
2.726	995	2,991,222	45.14
2.729	996	2,989,185	45.11
2.732	997	2,987,149	45.08
2.734	998	2,985,112	45.05
2.737	999	2,983,076	45.02
2.740	1000	2,981,039	44.99
2.742	1001	2,979,003	44.96
2.745	1002	2,976,966	44.93
2.748	1003	2,974,930	44.90
2.751	1004	2,972,893	44.87
2.753	1005	2,970,857	44.84
2.756	1006	2,968,820	44.81
2.759	1007	2,966,784	44.78
2.762	1008	2,964,747	44.75
2.764	1009	2,962,711	44.71
2.767	1010	2,960,674	44.68
2.770	1011	2,958,638	44.65
2.773	1012	2,956,601	44.62
2.775	1013	2,954,565	44.59
2.778	1014	2,952,528	44.56
2.781	1015	2,950,492	44.53
2.784	1016	2,948,455	44.50
2.786	1017	2,946,419	44.47
2.789	1018	2,944,382	44.44
2.792	1019	2,942,346	44.41
2.795	1020	2,940,309	44.38
2.797	1021	2,938,273	44.35
2.800	1022	2,936,237	44.32
2.803	1023	2,934,200	44.29
2.805	1024	2,932,164	44.26
2.808	1025	2,930,127	44.23
2.811	1026	2,928,091	44.20
2.814	1027	2,926,054	44.17
2.816	1028	2,924,018	44.14

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
2.819	1029	2,921,981	44.11
2.822	1030	2,919,945	44.08
2.825	1031	2,917,908	44.05
2.827	1032	2,915,872	44.02
2.830	1033	2,913,835	43.99
2.833	1034	2,911,799	43.96
2.836	1035	2,909,762	43.93
2.838	1036	2,907,726	43.90
2.841	1037	2,905,689	43.87
2.844	1038	2,903,653	43.84
2.847	1039	2,901,616	43.81
2.849	1040	2,899,580	43.78
2.852	1041	2,897,543	43.75
2.855	1042	2,895,507	43.72
2.858	1043	2,893,470	43.69
2.860	1044	2,891,434	43.66
2.863	1045	2,889,397	43.63
2.866	1046	2,887,361	43.60
2.868	1047	2,885,324	43.57
2.871	1048	2,883,288	43.54
2.874	1049	2,881,251	43.51
2.877	1050	2,879,215	43.48
2.879	1051	2,877,179	43.45
2.882	1052	2,875,142	43.42
2.885	1053	2,873,106	43.39
2.888	1054	2,871,069	43.36
2.890	1055	2,869,033	43.33
2.893	1056	2,866,996	43.30
2.896	1057	2,864,960	43.27
2.899	1058	2,862,923	43.24
2.901	1059	2,860,887	43.21
2.904	1060	2,858,850	43.18
2.907	1061	2,856,814	43.15
2.910	1062	2,854,777	43.12
2.912	1063	2,852,741	43.09
2.915	1064	2,850,704	43.06
2.918	1065	2,848,668	43.03
2.921	1066	2,846,631	43.00
2.923	1067	2,844,595	42.97
2.926	1068	2,842,558	42.94
2.929	1069	2,840,522	42.91
2.932	1070	2,838,485	42.88
2.934	1071	2,836,449	42.85
2.937	1072	2,834,412	42.82
2.940	1073	2,832,376	42.79
2.942	1074	2,830,339	42.76
2.945	1075	2,828,303	42.73
2.948	1076	2,826,266	42.70
2.951	1077	2,824,230	42.67
2.953	1078	2,822,194	42.64
2.956	1079	2,820,157	42.61
2.959	1080	2,818,121	42.58

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
2.962	1081	2,816,084	42.55
2.964	1082	2,814,048	42.52
2.967	1083	2,812,011	42.49
2.970	1084	2,809,975	42.46
2.973	1085	2,807,938	42.43
2.975	1086	2,805,902	42.40
2.978	1087	2,803,865	42.37
2.981	1088	2,801,829	42.34
2.984	1089	2,799,792	42.31
2.986	1090	2,797,756	42.28
2.989	1091	2,795,719	42.25
2.992	1092	2,793,683	42.22
2.995	1093	2,791,646	42.19
2.997	1094	2,789,610	42.16
3.000	1095	2,787,573	42.13
3.003	1096	2,785,537	42.10
3.005	1097	2,783,500	42.07
3.008	1098	2,781,464	42.04
3.011	1099	2,779,427	42.01
3.014	1100	2,777,391	41.98
3.016	1101	2,775,354	41.95
3.019	1102	2,773,318	41.92
3.022	1103	2,771,281	41.89
3.025	1104	2,769,245	41.86
3.027	1105	2,767,208	41.83
3.030	1106	2,765,172	41.80
3.033	1107	2,763,136	41.77
3.036	1108	2,761,099	41.74
3.038	1109	2,759,063	41.71
3.041	1110	2,757,026	41.68
3.044	1111	2,754,990	41.65
3.047	1112	2,752,953	41.62
3.049	1113	2,750,917	41.59
3.052	1114	2,748,880	41.56
3.055	1115	2,746,844	41.53
3.058	1116	2,744,807	41.50
3.060	1117	2,742,771	41.47
3.063	1118	2,740,734	41.44
3.066	1119	2,738,698	41.41
3.068	1120	2,736,661	41.38
3.071	1121	2,734,625	41.35
3.074	1122	2,732,588	41.32
3.077	1123	2,730,552	41.29
3.079	1124	2,728,515	41.26
3.082	1125	2,726,479	41.23
3.085	1126	2,724,442	41.20
3.088	1127	2,722,406	41.17
3.090	1128	2,720,369	41.14
3.093	1129	2,718,333	41.11
3.096	1130	2,716,296	41.08
3.099	1131	2,714,260	41.05
3.101	1132	2,712,223	41.02

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
3.104	1133	2,710,187	40.99
3.107	1134	2,708,151	40.96
3.110	1135	2,706,114	40.93
3.112	1136	2,704,078	40.90
3.115	1137	2,702,041	40.87
3.118	1138	2,700,005	40.84
3.121	1139	2,697,968	40.81
3.123	1140	2,695,932	40.78
3.126	1141	2,693,895	40.75
3.129	1142	2,691,859	40.72
3.132	1143	2,689,822	40.69
3.134	1144	2,687,786	40.66
3.137	1145	2,685,749	40.63
3.140	1146	2,683,713	40.60
3.142	1147	2,681,676	40.57
3.145	1148	2,679,640	40.54
3.148	1149	2,677,603	40.51
3.151	1150	2,675,567	40.48
3.153	1151	2,673,530	40.45
3.156	1152	2,671,494	40.42
3.159	1153	2,669,457	40.39
3.162	1154	2,667,421	40.36
3.164	1155	2,665,384	40.33
3.167	1156	2,663,348	40.30
3.170	1157	2,661,311	40.27
3.173	1158	2,659,275	40.24
3.175	1159	2,657,238	40.21
3.178	1160	2,655,202	40.18
3.181	1161	2,653,165	40.15
3.184	1162	2,651,129	40.12
3.186	1163	2,649,093	40.09
3.189	1164	2,647,056	40.06
3.192	1165	2,645,020	40.03
3.195	1166	2,642,983	40.00
3.197	1167	2,640,947	39.97
3.200	1168	2,638,910	39.94
3.203	1169	2,636,874	39.91
3.205	1170	2,634,837	39.88
3.208	1171	2,632,801	39.85
3.211	1172	2,630,764	39.82
3.214	1173	2,628,728	39.79
3.216	1174	2,626,691	39.76
3.219	1175	2,624,655	39.73
3.222	1176	2,622,618	39.70
3.225	1177	2,620,582	39.67
3.227	1178	2,618,545	39.64
3.230	1179	2,616,509	39.61
3.233	1180	2,614,472	39.58
3.236	1181	2,612,436	39.55
3.238	1182	2,610,399	39.52
3.241	1183	2,608,363	39.49
3.244	1184	2,606,326	39.46

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
3.247	1185	2,604,290	39.43
3.249	1186	2,602,253	39.40
3.252	1187	2,600,217	39.37
3.255	1188	2,598,180	39.34
3.258	1189	2,596,144	39.31
3.260	1190	2,594,107	39.28
3.263	1191	2,592,071	39.25
3.266	1192	2,590,035	39.22
3.268	1193	2,587,998	39.19
3.271	1194	2,585,962	39.16
3.274	1195	2,583,925	39.13
3.277	1196	2,581,889	39.10
3.279	1197	2,579,852	39.07
3.282	1198	2,577,816	39.04
3.285	1199	2,575,779	39.01
3.288	1200	2,573,743	38.98
3.290	1201	2,571,706	38.95
3.293	1202	2,569,670	38.92
3.296	1203	2,567,633	38.89
3.299	1204	2,565,597	38.86
3.301	1205	2,563,560	38.83
3.304	1206	2,561,524	38.80
3.307	1207	2,559,487	38.77
3.310	1208	2,557,451	38.74
3.312	1209	2,555,414	38.71
3.315	1210	2,553,378	38.68
3.318	1211	2,551,341	38.65
3.321	1212	2,549,305	38.62
3.323	1213	2,547,268	38.59
3.326	1214	2,545,232	38.56
3.329	1215	2,543,195	38.53
3.332	1216	2,541,159	38.50
3.334	1217	2,539,122	38.47
3.337	1218	2,537,086	38.44
3.340	1219	2,535,050	38.41
3.342	1220	2,533,013	38.38
3.345	1221	2,530,977	38.35
3.348	1222	2,528,940	38.32
3.351	1223	2,526,904	38.29
3.353	1224	2,524,867	38.26
3.356	1225	2,522,831	38.23
3.359	1226	2,520,794	38.20
3.362	1227	2,518,758	38.17
3.364	1228	2,516,721	38.14
3.367	1229	2,514,685	38.11
3.370	1230	2,512,648	38.08
3.373	1231	2,510,612	38.05
3.375	1232	2,508,575	38.02
3.378	1233	2,506,539	37.98
3.381	1234	2,504,502	37.95
3.384	1235	2,502,466	37.92
3.386	1236	2,500,429	37.89

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
3.389	1237	2,498,393	37.86
3.392	1238	2,496,356	37.83
3.395	1239	2,494,320	37.80
3.397	1240	2,492,283	37.77
3.400	1241	2,490,247	37.74
3.403	1242	2,488,210	37.71
3.405	1243	2,486,174	37.68
3.408	1244	2,484,137	37.65
3.411	1245	2,482,101	37.62
3.414	1246	2,480,064	37.59
3.416	1247	2,478,028	37.56
3.419	1248	2,475,992	37.53
3.422	1249	2,473,955	37.50
3.425	1250	2,471,919	37.47
3.427	1251	2,469,882	37.44
3.430	1252	2,467,846	37.41
3.433	1253	2,465,809	37.38
3.436	1254	2,463,773	37.35
3.438	1255	2,461,736	37.32
3.441	1256	2,459,700	37.29
3.444	1257	2,457,663	37.26
3.447	1258	2,455,627	37.23
3.449	1259	2,453,590	37.20
3.452	1260	2,451,554	37.17
3.455	1261	2,449,517	37.14
3.458	1262	2,447,481	37.11
3.460	1263	2,445,444	37.08
3.463	1264	2,443,408	37.05
3.466	1265	2,441,371	37.02
3.468	1266	2,439,335	36.99
3.471	1267	2,437,298	36.96
3.474	1268	2,435,262	36.93
3.477	1269	2,433,225	36.90
3.479	1270	2,431,189	36.87
3.482	1271	2,429,152	36.84
3.485	1272	2,427,116	36.81
3.488	1273	2,425,079	36.78
3.490	1274	2,423,043	36.75
3.493	1275	2,421,007	36.72
3.496	1276	2,418,970	36.69
3.499	1277	2,416,934	36.66
3.501	1278	2,414,897	36.63
3.504	1279	2,412,861	36.60
3.507	1280	2,410,824	36.57
3.510	1281	2,408,788	36.54
3.512	1282	2,406,751	36.51
3.515	1283	2,404,715	36.48
3.518	1284	2,402,678	36.45
3.521	1285	2,400,642	36.42
3.523	1286	2,398,605	36.39
3.526	1287	2,396,569	36.36
3.529	1288	2,394,532	36.33

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
3.532	1289	2,392,496	36.30
3.534	1290	2,390,459	36.27
3.537	1291	2,388,423	36.24
3.540	1292	2,386,386	36.21
3.542	1293	2,384,350	36.18
3.545	1294	2,382,313	36.15
3.548	1295	2,380,277	36.12
3.551	1296	2,378,240	36.09
3.553	1297	2,376,204	36.06
3.556	1298	2,374,167	36.03
3.559	1299	2,372,131	36.00
3.562	1300	2,370,094	35.97
3.564	1301	2,368,058	35.94
3.567	1302	2,366,021	35.91
3.570	1303	2,363,985	35.88
3.573	1304	2,361,949	35.85
3.575	1305	2,359,912	35.82
3.578	1306	2,357,876	35.79
3.581	1307	2,355,839	35.76
3.584	1308	2,353,803	35.73
3.586	1309	2,351,766	35.70
3.589	1310	2,349,730	35.67
3.592	1311	2,347,693	35.64
3.595	1312	2,345,657	35.61
3.597	1313	2,343,620	35.58
3.600	1314	2,341,584	35.55
3.603	1315	2,339,547	35.52
3.605	1316	2,337,511	35.49
3.608	1317	2,335,474	35.46
3.611	1318	2,333,438	35.43
3.614	1319	2,331,401	35.40
3.616	1320	2,329,365	35.37
3.619	1321	2,327,328	35.34
3.622	1322	2,325,292	35.31
3.625	1323	2,323,255	35.28
3.627	1324	2,321,219	35.25
3.630	1325	2,319,182	35.22
3.633	1326	2,317,146	35.19
3.636	1327	2,315,109	35.16
3.638	1328	2,313,073	35.13
3.641	1329	2,311,036	35.10
3.644	1330	2,309,000	35.07
3.647	1331	2,306,964	35.04
3.649	1332	2,304,927	35.01
3.652	1333	2,302,891	34.98
3.655	1334	2,300,854	34.95
3.658	1335	2,298,818	34.92
3.660	1336	2,296,781	34.89
3.663	1337	2,294,745	34.86
3.666	1338	2,292,708	34.83
3.668	1339	2,290,672	34.80
3.671	1340	2,288,635	34.77

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
3.674	1341	2,286,599	34.74
3.677	1342	2,284,562	34.71
3.679	1343	2,282,526	34.68
3.682	1344	2,280,489	34.65
3.685	1345	2,278,453	34.62
3.688	1346	2,276,416	34.59
3.690	1347	2,274,380	34.56
3.693	1348	2,272,343	34.53
3.696	1349	2,270,307	34.50
3.699	1350	2,268,270	34.47
3.701	1351	2,266,234	34.44
3.704	1352	2,264,197	34.41
3.707	1353	2,262,161	34.38
3.710	1354	2,260,124	34.35
3.712	1355	2,258,088	34.32
3.715	1356	2,256,051	34.29
3.718	1357	2,254,015	34.26
3.721	1358	2,251,978	34.23
3.723	1359	2,249,942	34.20
3.726	1360	2,247,906	34.17
3.729	1361	2,245,869	34.14
3.732	1362	2,243,833	34.11
3.734	1363	2,241,796	34.08
3.737	1364	2,239,760	34.05
3.740	1365	2,237,723	34.02
3.742	1366	2,235,687	33.99
3.745	1367	2,233,650	33.96
3.748	1368	2,231,614	33.93
3.751	1369	2,229,577	33.90
3.753	1370	2,227,541	33.87
3.756	1371	2,225,504	33.84
3.759	1372	2,223,468	33.81
3.762	1373	2,221,431	33.78
3.764	1374	2,219,395	33.75
3.767	1375	2,217,358	33.72
3.770	1376	2,215,322	33.69
3.773	1377	2,213,285	33.66
3.775	1378	2,211,249	33.63
3.778	1379	2,209,212	33.60
3.781	1380	2,207,176	33.57
3.784	1381	2,205,139	33.54
3.786	1382	2,203,103	33.51
3.789	1383	2,201,066	33.48
3.792	1384	2,199,030	33.45
3.795	1385	2,196,993	33.42
3.797	1386	2,194,957	33.39
3.800	1387	2,192,921	33.36
3.803	1388	2,190,884	33.33
3.805	1389	2,188,848	33.30
3.808	1390	2,186,811	33.27
3.811	1391	2,184,775	33.24
3.814	1392	2,182,738	33.21

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
3.816	1393	2,180,702	33.18
3.819	1394	2,178,665	33.15
3.822	1395	2,176,629	33.12
3.825	1396	2,174,592	33.09
3.827	1397	2,172,556	33.06
3.830	1398	2,170,519	33.03
3.833	1399	2,168,483	33.00
3.836	1400	2,166,446	32.97
3.838	1401	2,164,410	32.94
3.841	1402	2,162,373	32.91
3.844	1403	2,160,337	32.88
3.847	1404	2,158,300	32.85
3.849	1405	2,156,264	32.82
3.852	1406	2,154,227	32.79
3.855	1407	2,152,191	32.76
3.858	1408	2,150,154	32.73
3.860	1409	2,148,118	32.70
3.863	1410	2,146,081	32.67
3.866	1411	2,144,045	32.64
3.868	1412	2,142,008	32.61
3.871	1413	2,139,972	32.58
3.874	1414	2,137,935	32.55
3.877	1415	2,135,899	32.52
3.879	1416	2,133,863	32.49
3.882	1417	2,131,826	32.46
3.885	1418	2,129,790	32.43
3.888	1419	2,127,753	32.40
3.890	1420	2,125,717	32.37
3.893	1421	2,123,680	32.34
3.896	1422	2,121,644	32.31
3.899	1423	2,119,607	32.28
3.901	1424	2,117,571	32.25
3.904	1425	2,115,534	32.22
3.907	1426	2,113,498	32.19
3.910	1427	2,111,461	32.16
3.912	1428	2,109,425	32.13
3.915	1429	2,107,388	32.10
3.918	1430	2,105,352	32.07
3.921	1431	2,103,315	32.04
3.923	1432	2,101,279	32.01
3.926	1433	2,099,242	31.98
3.929	1434	2,097,206	31.95
3.932	1435	2,095,169	31.92
3.934	1436	2,093,133	31.89
3.937	1437	2,091,096	31.86
3.940	1438	2,089,060	31.83
3.942	1439	2,087,023	31.80
3.945	1440	2,084,987	31.77
3.948	1441	2,082,950	31.74
3.951	1442	2,080,914	31.71
3.953	1443	2,078,878	31.68
3.956	1444	2,076,841	31.65

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
3.959	1445	2,074,805	31.62
3.962	1446	2,072,768	31.59
3.964	1447	2,070,732	31.56
3.967	1448	2,068,695	31.53
3.970	1449	2,066,659	31.50
3.973	1450	2,064,622	31.47
3.975	1451	2,062,586	31.44
3.978	1452	2,060,549	31.41
3.981	1453	2,058,513	31.38
3.984	1454	2,056,476	31.35
3.986	1455	2,054,440	31.32
3.989	1456	2,052,403	31.29
3.992	1457	2,050,367	31.25
3.995	1458	2,048,330	31.22
3.997	1459	2,046,294	31.19
4.000	1460	2,044,257	31.16
4.003	1461	2,042,221	31.13
4.005	1462	2,040,184	31.10
4.008	1463	2,038,148	31.07
4.011	1464	2,036,111	31.04
4.014	1465	2,034,075	31.01
4.016	1466	2,032,038	30.98
4.019	1467	2,030,002	30.95
4.022	1468	2,027,965	30.92
4.025	1469	2,025,929	30.89
4.027	1470	2,023,892	30.86
4.030	1471	2,021,856	30.83
4.033	1472	2,019,820	30.80
4.036	1473	2,017,783	30.77
4.038	1474	2,015,747	30.74
4.041	1475	2,013,710	30.71
4.044	1476	2,011,674	30.68
4.047	1477	2,009,637	30.65
4.049	1478	2,007,601	30.62
4.052	1479	2,005,564	30.59
4.055	1480	2,003,528	30.56
4.058	1481	2,001,491	30.53
4.060	1482	1,999,455	30.50
4.063	1483	1,997,418	30.47
4.066	1484	1,995,382	30.44
4.068	1485	1,993,345	30.41
4.071	1486	1,991,309	30.38
4.074	1487	1,989,272	30.35
4.077	1488	1,987,236	30.32
4.079	1489	1,985,199	30.29
4.082	1490	1,983,163	30.26
4.085	1491	1,981,126	30.23
4.088	1492	1,979,090	30.20
4.090	1493	1,977,053	30.17
4.093	1494	1,975,017	30.14
4.096	1495	1,972,980	30.11
4.099	1496	1,970,944	30.08

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
4.101	1497	1,968,907	30.05
4.104	1498	1,966,871	30.02
4.107	1499	1,964,835	29.99
4.110	1500	1,962,798	29.96
4.112	1501	1,960,762	29.93
4.115	1502	1,958,725	29.90
4.118	1503	1,956,689	29.87
4.121	1504	1,954,652	29.84
4.123	1505	1,952,616	29.81
4.126	1506	1,950,579	29.78
4.129	1507	1,948,543	29.75
4.132	1508	1,946,506	29.72
4.134	1509	1,944,470	29.69
4.137	1510	1,942,433	29.66
4.140	1511	1,940,397	29.63
4.142	1512	1,938,360	29.60
4.145	1513	1,936,324	29.57
4.148	1514	1,934,287	29.54
4.151	1515	1,932,251	29.51
4.153	1516	1,930,214	29.48
4.156	1517	1,928,178	29.45
4.159	1518	1,926,141	29.42
4.162	1519	1,924,105	29.39
4.164	1520	1,922,068	29.36
4.167	1521	1,920,032	29.33
4.170	1522	1,917,995	29.30
4.173	1523	1,915,959	29.27
4.175	1524	1,913,922	29.24
4.178	1525	1,911,886	29.21
4.181	1526	1,909,849	29.18
4.184	1527	1,907,813	29.15
4.186	1528	1,905,777	29.12
4.189	1529	1,903,740	29.09
4.192	1530	1,901,704	29.06
4.195	1531	1,899,667	29.03
4.197	1532	1,897,631	29.00
4.200	1533	1,895,594	28.97
4.203	1534	1,893,558	28.94
4.205	1535	1,891,521	28.91
4.208	1536	1,889,485	28.88
4.211	1537	1,887,448	28.85
4.214	1538	1,885,412	28.82
4.216	1539	1,883,375	28.79
4.219	1540	1,881,339	28.76
4.222	1541	1,879,302	28.73
4.225	1542	1,877,266	28.70
4.227	1543	1,875,229	28.67
4.230	1544	1,873,193	28.64
4.233	1545	1,871,156	28.61
4.236	1546	1,869,120	28.58
4.238	1547	1,867,083	28.55
4.241	1548	1,865,047	28.52

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
4.244	1549	1,863,010	28.49
4.247	1550	1,860,974	28.46
4.249	1551	1,858,937	28.43
4.252	1552	1,856,901	28.40
4.255	1553	1,854,864	28.37
4.258	1554	1,852,828	28.34
4.260	1555	1,850,791	28.31
4.263	1556	1,848,755	28.28
4.266	1557	1,846,719	28.25
4.268	1558	1,844,682	28.22
4.271	1559	1,842,646	28.19
4.274	1560	1,840,609	28.16
4.277	1561	1,838,573	28.13
4.279	1562	1,836,536	28.10
4.282	1563	1,834,500	28.07
4.285	1564	1,832,463	28.04
4.288	1565	1,830,427	28.01
4.290	1566	1,828,390	27.98
4.293	1567	1,826,354	27.95
4.296	1568	1,824,317	27.92
4.299	1569	1,822,281	27.89
4.301	1570	1,820,244	27.86
4.304	1571	1,818,208	27.83
4.307	1572	1,816,171	27.80
4.310	1573	1,814,135	27.77
4.312	1574	1,812,098	27.74
4.315	1575	1,810,062	27.71
4.318	1576	1,808,025	27.68
4.321	1577	1,805,989	27.65
4.323	1578	1,803,952	27.62
4.326	1579	1,801,916	27.59
4.329	1580	1,799,879	27.56
4.332	1581	1,797,843	27.53
4.334	1582	1,795,806	27.50
4.337	1583	1,793,770	27.47
4.340	1584	1,791,734	27.44
4.342	1585	1,789,697	27.41
4.345	1586	1,787,661	27.38
4.348	1587	1,785,624	27.35
4.351	1588	1,783,588	27.32
4.353	1589	1,781,551	27.29
4.356	1590	1,779,515	27.26
4.359	1591	1,777,478	27.23
4.362	1592	1,775,442	27.20
4.364	1593	1,773,405	27.17
4.367	1594	1,771,369	27.14
4.370	1595	1,769,332	27.11
4.373	1596	1,767,296	27.08
4.375	1597	1,765,259	27.05
4.378	1598	1,763,223	27.02
4.381	1599	1,761,186	26.99
4.384	1600	1,759,150	26.96

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
4.386	1601	1,757,113	26.93
4.389	1602	1,755,077	26.90
4.392	1603	1,753,040	26.87
4.395	1604	1,751,004	26.84
4.397	1605	1,748,967	26.81
4.400	1606	1,746,931	26.78
4.403	1607	1,744,894	26.75
4.405	1608	1,742,858	26.72
4.408	1609	1,740,821	26.69
4.411	1610	1,738,785	26.66
4.414	1611	1,736,748	26.63
4.416	1612	1,734,712	26.60
4.419	1613	1,732,676	26.57
4.422	1614	1,730,639	26.54
4.425	1615	1,728,603	26.51
4.427	1616	1,726,566	26.48
4.430	1617	1,724,530	26.45
4.433	1618	1,722,493	26.42
4.436	1619	1,720,457	26.39
4.438	1620	1,718,420	26.36
4.441	1621	1,716,384	26.33
4.444	1622	1,714,347	26.30
4.447	1623	1,712,311	26.27
4.449	1624	1,710,274	26.24
4.452	1625	1,708,238	26.21
4.455	1626	1,706,201	26.18
4.458	1627	1,704,165	26.15
4.460	1628	1,702,128	26.12
4.463	1629	1,700,092	26.09
4.466	1630	1,698,055	26.06
4.468	1631	1,696,019	26.03
4.471	1632	1,693,982	26.00
4.474	1633	1,691,946	25.97
4.477	1634	1,689,909	25.94
4.479	1635	1,687,873	25.91
4.482	1636	1,685,836	25.88
4.485	1637	1,683,800	25.85
4.488	1638	1,681,763	25.82
4.490	1639	1,679,727	25.79
4.493	1640	1,677,691	25.76
4.496	1641	1,675,654	25.73
4.499	1642	1,673,618	25.70
4.501	1643	1,671,581	25.67
4.504	1644	1,669,545	25.64
4.507	1645	1,667,508	25.61
4.510	1646	1,665,472	25.58
4.512	1647	1,663,435	25.55
4.515	1648	1,661,399	25.52
4.518	1649	1,659,362	25.49
4.521	1650	1,657,326	25.46
4.523	1651	1,655,289	25.43
4.526	1652	1,653,253	25.40

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
4.529	1653	1,651,216	25.37
4.532	1654	1,649,180	25.34
4.534	1655	1,647,143	25.31
4.537	1656	1,645,107	25.28
4.540	1657	1,643,070	25.25
4.542	1658	1,641,034	25.22
4.545	1659	1,638,997	25.19
4.548	1660	1,636,961	25.16
4.551	1661	1,634,924	25.13
4.553	1662	1,632,888	25.10
4.556	1663	1,630,851	25.07
4.559	1664	1,628,815	25.04
4.562	1665	1,626,778	25.01
4.564	1666	1,624,742	24.98
4.567	1667	1,622,705	24.95
4.570	1668	1,620,669	24.92
4.573	1669	1,618,633	24.89
4.575	1670	1,616,596	24.86
4.578	1671	1,614,560	24.83
4.581	1672	1,612,523	24.80
4.584	1673	1,610,487	24.77
4.586	1674	1,608,450	24.74
4.589	1675	1,606,414	24.71
4.592	1676	1,604,377	24.68
4.595	1677	1,602,341	24.65
4.597	1678	1,600,304	24.62
4.600	1679	1,598,268	24.59
4.603	1680	1,596,231	24.56
4.605	1681	1,594,195	24.52
4.608	1682	1,592,158	24.49
4.611	1683	1,590,122	24.46
4.614	1684	1,588,085	24.43
4.616	1685	1,586,049	24.40
4.619	1686	1,584,012	24.37
4.622	1687	1,581,976	24.34
4.625	1688	1,579,939	24.31
4.627	1689	1,577,903	24.28
4.630	1690	1,575,866	24.25
4.633	1691	1,573,830	24.22
4.636	1692	1,571,793	24.19
4.638	1693	1,569,757	24.16
4.641	1694	1,567,720	24.13
4.644	1695	1,565,684	24.10
4.647	1696	1,563,648	24.07
4.649	1697	1,561,611	24.04
4.652	1698	1,559,575	24.01
4.655	1699	1,557,538	23.98
4.658	1700	1,555,502	23.95
4.660	1701	1,553,465	23.92
4.663	1702	1,551,429	23.89
4.666	1703	1,549,392	23.86
4.668	1704	1,547,356	23.83

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
4.671	1705	1,545,319	23.80
4.674	1706	1,543,283	23.77
4.677	1707	1,541,246	23.74
4.679	1708	1,539,210	23.71
4.682	1709	1,537,173	23.68
4.685	1710	1,535,137	23.65
4.688	1711	1,533,100	23.62
4.690	1712	1,531,064	23.59
4.693	1713	1,529,027	23.56
4.696	1714	1,526,991	23.53
4.699	1715	1,524,954	23.50
4.701	1716	1,522,918	23.47
4.704	1717	1,520,881	23.44
4.707	1718	1,518,845	23.41
4.710	1719	1,516,808	23.38
4.712	1720	1,514,772	23.35
4.715	1721	1,512,735	23.32
4.718	1722	1,510,699	23.29
4.721	1723	1,508,662	23.26
4.723	1724	1,506,626	23.23
4.726	1725	1,504,590	23.20
4.729	1726	1,502,553	23.17
4.732	1727	1,500,517	23.14
4.734	1728	1,498,480	23.11
4.737	1729	1,496,444	23.08
4.740	1730	1,494,407	23.05
4.742	1731	1,492,371	23.02
4.745	1732	1,490,334	22.99
4.748	1733	1,488,298	22.96
4.751	1734	1,486,261	22.93
4.753	1735	1,484,225	22.90
4.756	1736	1,482,188	22.87
4.759	1737	1,480,152	22.84
4.762	1738	1,478,115	22.81
4.764	1739	1,476,079	22.78
4.767	1740	1,474,042	22.75
4.770	1741	1,472,006	22.72
4.773	1742	1,469,969	22.69
4.775	1743	1,467,933	22.66
4.778	1744	1,465,896	22.63
4.781	1745	1,463,860	22.60
4.784	1746	1,461,823	22.57
4.786	1747	1,459,787	22.54
4.789	1748	1,457,750	22.51
4.792	1749	1,455,714	22.48
4.795	1750	1,453,677	22.45
4.797	1751	1,451,641	22.42
4.800	1752	1,449,605	22.39
4.803	1753	1,447,568	22.36
4.805	1754	1,445,532	22.33
4.808	1755	1,443,495	22.30
4.811	1756	1,441,459	22.27

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
4.814	1757	1,439,422	22.24
4.816	1758	1,437,386	22.21
4.819	1759	1,435,349	22.18
4.822	1760	1,433,313	22.15
4.825	1761	1,431,276	22.12
4.827	1762	1,429,240	22.09
4.830	1763	1,427,203	22.06
4.833	1764	1,425,167	22.03
4.836	1765	1,423,130	22.00
4.838	1766	1,421,094	21.97
4.841	1767	1,419,057	21.94
4.844	1768	1,417,021	21.91
4.847	1769	1,414,984	21.88
4.849	1770	1,412,948	21.85
4.852	1771	1,410,911	21.82
4.855	1772	1,408,875	21.79
4.858	1773	1,406,838	21.76
4.860	1774	1,404,802	21.73
4.863	1775	1,402,765	21.70
4.866	1776	1,400,729	21.67
4.868	1777	1,398,692	21.64
4.871	1778	1,396,656	21.61
4.874	1779	1,394,619	21.58
4.877	1780	1,392,583	21.55
4.879	1781	1,390,547	21.52
4.882	1782	1,388,510	21.49
4.885	1783	1,386,474	21.46
4.888	1784	1,384,437	21.43
4.890	1785	1,382,401	21.40
4.893	1786	1,380,364	21.37
4.896	1787	1,378,328	21.34
4.899	1788	1,376,291	21.31
4.901	1789	1,374,255	21.28
4.904	1790	1,372,218	21.25
4.907	1791	1,370,182	21.22
4.910	1792	1,368,145	21.19
4.912	1793	1,366,109	21.16
4.915	1794	1,364,072	21.13
4.918	1795	1,362,036	21.10
4.921	1796	1,359,999	21.07
4.923	1797	1,357,963	21.04
4.926	1798	1,355,926	21.01
4.929	1799	1,353,890	20.98
4.932	1800	1,351,853	20.95
4.934	1801	1,349,817	20.92
4.937	1802	1,347,780	20.89
4.940	1803	1,345,744	20.86
4.942	1804	1,343,707	20.83
4.945	1805	1,341,671	20.80
4.948	1806	1,339,634	20.77
4.951	1807	1,337,598	20.74
4.953	1808	1,335,562	20.71

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
4.956	1809	1,333,525	20.68
4.959	1810	1,331,489	20.65
4.962	1811	1,329,452	20.62
4.964	1812	1,327,416	20.59
4.967	1813	1,325,379	20.56
4.970	1814	1,323,343	20.53
4.973	1815	1,321,306	20.50
4.975	1816	1,319,270	20.47
4.978	1817	1,317,233	20.44
4.981	1818	1,315,197	20.41
4.984	1819	1,313,160	20.38
4.986	1820	1,311,124	20.35
4.989	1821	1,309,087	20.32
4.992	1822	1,307,051	20.29
4.995	1823	1,305,014	20.26
4.997	1824	1,302,978	20.23
5.000	1825	1,300,941	20.20
5.003	1826	1,298,905	20.17
5.005	1827	1,296,868	20.14
5.008	1828	1,294,832	20.11
5.011	1829	1,292,795	20.08
5.014	1830	1,290,759	20.05
5.016	1831	1,288,722	20.02
5.019	1832	1,286,686	19.99
5.022	1833	1,284,649	19.96
5.025	1834	1,282,613	19.93
5.027	1835	1,280,576	19.90
5.030	1836	1,278,540	19.87
5.033	1837	1,276,504	19.84
5.036	1838	1,274,467	19.81
5.038	1839	1,272,431	19.78
5.041	1840	1,270,394	19.75
5.044	1841	1,268,358	19.72
5.047	1842	1,266,321	19.69
5.049	1843	1,264,285	19.66
5.052	1844	1,262,248	19.63
5.055	1845	1,260,212	19.60
5.058	1846	1,258,175	19.57
5.060	1847	1,256,139	19.54
5.063	1848	1,254,102	19.51
5.066	1849	1,252,066	19.48
5.068	1850	1,250,029	19.45
5.071	1851	1,247,993	19.42
5.074	1852	1,245,956	19.39
5.077	1853	1,243,920	19.36
5.079	1854	1,241,883	19.33
5.082	1855	1,239,847	19.30
5.085	1856	1,237,810	19.27
5.088	1857	1,235,774	19.24
5.090	1858	1,233,737	19.21
5.093	1859	1,231,701	19.18
5.096	1860	1,229,664	19.15

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
5.099	1861	1,227,628	19.12
5.101	1862	1,225,591	19.09
5.104	1863	1,223,555	19.06
5.107	1864	1,221,519	19.03
5.110	1865	1,219,482	19.00
5.112	1866	1,217,446	18.97
5.115	1867	1,215,409	18.94
5.118	1868	1,213,373	18.91
5.121	1869	1,211,336	18.88
5.123	1870	1,209,300	18.85
5.126	1871	1,207,263	18.82
5.129	1872	1,205,227	18.79
5.132	1873	1,203,190	18.76
5.134	1874	1,201,154	18.73
5.137	1875	1,199,117	18.70
5.140	1876	1,197,081	18.67
5.142	1877	1,195,044	18.64
5.145	1878	1,193,008	18.61
5.148	1879	1,190,971	18.58
5.151	1880	1,188,935	18.55
5.153	1881	1,186,898	18.52
5.156	1882	1,184,862	18.49
5.159	1883	1,182,825	18.46
5.162	1884	1,180,789	18.43
5.164	1885	1,178,752	18.40
5.167	1886	1,176,716	18.37
5.170	1887	1,174,679	18.34
5.173	1888	1,172,643	18.31
5.175	1889	1,170,606	18.28
5.178	1890	1,168,570	18.25
5.181	1891	1,166,533	18.22
5.184	1892	1,164,497	18.19
5.186	1893	1,162,461	18.16
5.189	1894	1,160,424	18.13
5.192	1895	1,158,388	18.10
5.195	1896	1,156,351	18.07
5.197	1897	1,154,315	18.04
5.200	1898	1,152,278	18.01
5.203	1899	1,150,242	17.98
5.205	1900	1,148,205	17.95
5.208	1901	1,146,169	17.92
5.211	1902	1,144,132	17.89
5.214	1903	1,142,096	17.86
5.216	1904	1,140,059	17.83
5.219	1905	1,138,023	17.79
5.222	1906	1,135,986	17.76
5.225	1907	1,133,950	17.73
5.227	1908	1,131,913	17.70
5.230	1909	1,129,877	17.67
5.233	1910	1,127,840	17.64
5.236	1911	1,125,804	17.61
5.238	1912	1,123,767	17.58

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
5.241	1913	1,121,731	17.55
5.244	1914	1,119,694	17.52
5.247	1915	1,117,658	17.49
5.249	1916	1,115,621	17.46
5.252	1917	1,113,585	17.43
5.255	1918	1,111,548	17.40
5.258	1919	1,109,512	17.37
5.260	1920	1,107,475	17.34
5.263	1921	1,105,439	17.31
5.266	1922	1,103,403	17.28
5.268	1923	1,101,366	17.25
5.271	1924	1,099,330	17.22
5.274	1925	1,097,293	17.19
5.277	1926	1,095,257	17.16
5.279	1927	1,093,220	17.13
5.282	1928	1,091,184	17.10
5.285	1929	1,089,147	17.07
5.288	1930	1,087,111	17.04
5.290	1931	1,085,074	17.01
5.293	1932	1,083,038	16.98
5.296	1933	1,081,001	16.95
5.299	1934	1,078,965	16.92
5.301	1935	1,076,928	16.89
5.304	1936	1,074,892	16.86
5.307	1937	1,072,855	16.83
5.310	1938	1,070,819	16.80
5.312	1939	1,068,782	16.77
5.315	1940	1,066,746	16.74
5.318	1941	1,064,709	16.71
5.321	1942	1,062,673	16.68
5.323	1943	1,060,636	16.65
5.326	1944	1,058,600	16.62
5.329	1945	1,056,563	16.59
5.332	1946	1,054,527	16.56
5.334	1947	1,052,490	16.53
5.337	1948	1,050,454	16.50
5.340	1949	1,048,418	16.47
5.342	1950	1,046,381	16.44
5.345	1951	1,044,345	16.41
5.348	1952	1,042,308	16.38
5.351	1953	1,040,272	16.35
5.353	1954	1,038,235	16.32
5.356	1955	1,036,199	16.29
5.359	1956	1,034,162	16.26
5.362	1957	1,032,126	16.23
5.364	1958	1,030,089	16.20
5.367	1959	1,028,053	16.17
5.370	1960	1,026,016	16.14
5.373	1961	1,023,980	16.11
5.375	1962	1,021,943	16.08
5.378	1963	1,019,907	16.05
5.381	1964	1,017,870	16.02

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
5.384	1965	1,015,834	15.99
5.386	1966	1,013,797	15.96
5.389	1967	1,011,761	15.93
5.392	1968	1,009,724	15.90
5.395	1969	1,007,688	15.87
5.397	1970	1,005,651	15.84
5.400	1971	1,003,615	15.81
5.403	1972	1,001,578	15.78
5.405	1973	999,542	15.75
5.408	1974	997,505	15.72
5.411	1975	995,469	15.69
5.414	1976	993,432	15.66
5.416	1977	991,396	15.63
5.419	1978	989,360	15.60
5.422	1979	987,323	15.57
5.425	1980	985,287	15.54
5.427	1981	983,250	15.51
5.430	1982	981,214	15.48
5.433	1983	979,177	15.45
5.436	1984	977,141	15.42
5.438	1985	975,104	15.39
5.441	1986	973,068	15.36
5.444	1987	971,031	15.33
5.447	1988	968,995	15.30
5.449	1989	966,958	15.27
5.452	1990	964,922	15.24
5.455	1991	962,885	15.21
5.458	1992	960,849	15.18
5.460	1993	958,812	15.15
5.463	1994	956,776	15.12
5.466	1995	954,739	15.09
5.468	1996	952,703	15.06
5.471	1997	950,666	15.03
5.474	1998	948,630	15.00
5.477	1999	946,593	14.97
5.479	2000	944,557	14.94
5.482	2001	942,520	14.91
5.485	2002	940,484	14.88
5.488	2003	938,447	14.85
5.490	2004	936,411	14.82
5.493	2005	934,375	14.79
5.496	2006	932,338	14.76
5.499	2007	930,302	14.73
5.501	2008	928,265	14.70
5.504	2009	926,229	14.67
5.507	2010	924,192	14.64
5.510	2011	922,156	14.61
5.512	2012	920,119	14.58
5.515	2013	918,083	14.55
5.518	2014	916,046	14.52
5.521	2015	914,010	14.49
5.523	2016	911,973	14.46

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
5.526	2017	909,937	14.43
5.529	2018	907,900	14.40
5.532	2019	905,864	14.37
5.534	2020	903,827	14.34
5.537	2021	901,791	14.31
5.540	2022	899,754	14.28
5.542	2023	897,718	14.25
5.545	2024	895,681	14.22
5.548	2025	893,645	14.19
5.551	2026	891,608	14.16
5.553	2027	889,572	14.13
5.556	2028	887,535	14.10
5.559	2029	885,499	14.07
5.562	2030	883,462	14.04
5.564	2031	881,426	14.01
5.567	2032	879,389	13.98
5.570	2033	877,353	13.95
5.573	2034	875,317	13.92
5.575	2035	873,280	13.89
5.578	2036	871,244	13.86
5.581	2037	869,207	13.83
5.584	2038	867,171	13.80
5.586	2039	865,134	13.77
5.589	2040	863,098	13.74
5.592	2041	861,061	13.71
5.595	2042	859,025	13.68
5.597	2043	856,988	13.65
5.600	2044	854,952	13.62
5.603	2045	852,915	13.59
5.605	2046	850,879	13.56
5.608	2047	848,842	13.53
5.611	2048	846,806	13.50
5.614	2049	844,769	13.47
5.616	2050	842,733	13.44
5.619	2051	840,696	13.41
5.622	2052	838,660	13.38
5.625	2053	836,623	13.35
5.627	2054	834,587	13.32
5.630	2055	832,550	13.29
5.633	2056	830,514	13.26
5.636	2057	828,477	13.23
5.638	2058	826,441	13.20
5.641	2059	824,404	13.17
5.644	2060	822,368	13.14
5.647	2061	820,332	13.11
5.649	2062	818,295	13.08
5.652	2063	816,259	13.05
5.655	2064	814,222	13.02
5.658	2065	812,186	12.99
5.660	2066	810,149	12.96
5.663	2067	808,113	12.93
5.666	2068	806,076	12.90

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
5.668	2069	804,040	12.87
5.671	2070	802,003	12.84
5.674	2071	799,967	12.81
5.677	2072	797,930	12.78
5.679	2073	795,894	12.75
5.682	2074	793,857	12.72
5.685	2075	791,821	12.69
5.688	2076	789,784	12.66
5.690	2077	787,748	12.63
5.693	2078	785,711	12.60
5.696	2079	783,675	12.57
5.699	2080	781,638	12.54
5.701	2081	779,602	12.51
5.704	2082	777,565	12.48
5.707	2083	775,529	12.45
5.710	2084	773,492	12.42
5.712	2085	771,456	12.39
5.715	2086	769,419	12.36
5.718	2087	767,383	12.33
5.721	2088	765,346	12.30
5.723	2089	763,310	12.27
5.726	2090	761,274	12.24
5.729	2091	759,237	12.21
5.732	2092	757,201	12.18
5.734	2093	755,164	12.15
5.737	2094	753,128	12.12
5.740	2095	751,091	12.09
5.742	2096	749,055	12.06
5.745	2097	747,018	12.03
5.748	2098	744,982	12.00
5.751	2099	742,945	11.97
5.753	2100	740,909	11.94
5.756	2101	738,872	11.91
5.759	2102	736,836	11.88
5.762	2103	734,799	11.85
5.764	2104	732,763	11.82
5.767	2105	730,726	11.79
5.770	2106	728,690	11.76
5.773	2107	726,653	11.73
5.775	2108	724,617	11.70
5.778	2109	722,580	11.67
5.781	2110	720,544	11.64
5.784	2111	718,507	11.61
5.786	2112	716,471	11.58
5.789	2113	714,434	11.55
5.792	2114	712,398	11.52
5.795	2115	710,361	11.49
5.797	2116	708,325	11.46
5.800	2117	706,289	11.43
5.803	2118	704,252	11.40
5.805	2119	702,216	11.37
5.808	2120	700,179	11.34

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
5.811	2121	698,143	11.31
5.814	2122	696,106	11.28
5.816	2123	694,070	11.25
5.819	2124	692,033	11.22
5.822	2125	689,997	11.19
5.825	2126	687,960	11.16
5.827	2127	685,924	11.13
5.830	2128	683,887	11.10
5.833	2129	681,851	11.06
5.836	2130	679,814	11.03
5.838	2131	677,778	11.00
5.841	2132	675,741	10.97
5.844	2133	673,705	10.94
5.847	2134	671,668	10.91
5.849	2135	669,632	10.88
5.852	2136	667,595	10.85
5.855	2137	665,559	10.82
5.858	2138	663,522	10.79
5.860	2139	661,486	10.76
5.863	2140	659,449	10.73
5.866	2141	657,413	10.70
5.868	2142	655,376	10.67
5.871	2143	653,340	10.64
5.874	2144	651,303	10.61
5.877	2145	649,267	10.58
5.879	2146	647,231	10.55
5.882	2147	645,194	10.52
5.885	2148	643,158	10.49
5.888	2149	641,121	10.46
5.890	2150	639,085	10.43
5.893	2151	637,048	10.40
5.896	2152	635,012	10.37
5.899	2153	632,975	10.34
5.901	2154	630,939	10.31
5.904	2155	628,902	10.28
5.907	2156	626,866	10.25
5.910	2157	624,829	10.22
5.912	2158	622,793	10.19
5.915	2159	620,756	10.16
5.918	2160	618,720	10.13
5.921	2161	616,683	10.10
5.923	2162	614,647	10.07
5.926	2163	612,610	10.04
5.929	2164	610,574	10.01
5.932	2165	608,537	9.98
5.934	2166	606,501	9.95
5.937	2167	604,464	9.92
5.940	2168	602,428	9.89
5.942	2169	600,391	9.86
5.945	2170	598,355	9.83
5.948	2171	596,318	9.80
5.951	2172	594,282	9.77

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
5.953	2173	592,246	9.74
5.956	2174	590,209	9.71
5.959	2175	588,173	9.68
5.962	2176	586,136	9.65
5.964	2177	584,100	9.62
5.967	2178	582,063	9.59
5.970	2179	580,027	9.56
5.973	2180	577,990	9.53
5.975	2181	575,954	9.50
5.978	2182	573,917	9.47
5.981	2183	571,881	9.44
5.984	2184	569,844	9.41
5.986	2185	567,808	9.38
5.989	2186	565,771	9.35
5.992	2187	563,735	9.32
5.995	2188	561,698	9.29
5.997	2189	559,662	9.26
6.000	2190	557,625	9.23
6.003	2191	555,589	9.20
6.005	2192	553,552	9.17
6.008	2193	551,516	9.14
6.011	2194	549,479	9.11
6.014	2195	547,443	9.08
6.016	2196	545,406	9.05
6.019	2197	543,370	9.02
6.022	2198	541,333	8.99
6.025	2199	539,297	8.96
6.027	2200	537,260	8.93
6.030	2201	535,224	8.90
6.033	2202	533,188	8.87
6.036	2203	531,151	8.84
6.038	2204	529,115	8.81
6.041	2205	527,078	8.78
6.044	2206	525,042	8.75
6.047	2207	523,005	8.72
6.049	2208	520,969	8.69
6.052	2209	518,932	8.66
6.055	2210	516,896	8.63
6.058	2211	514,859	8.60
6.060	2212	512,823	8.57
6.063	2213	510,786	8.54
6.066	2214	508,750	8.51
6.068	2215	506,713	8.48
6.071	2216	504,677	8.45
6.074	2217	502,640	8.42
6.077	2218	500,604	8.39
6.079	2219	498,567	8.36
6.082	2220	496,531	8.33
6.085	2221	494,494	8.30
6.088	2222	492,458	8.27
6.090	2223	490,421	8.24
6.093	2224	488,385	8.21

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
6.096	2225	486,348	8.18
6.099	2226	484,312	8.15
6.101	2227	482,275	8.12
6.104	2228	480,239	8.09
6.107	2229	478,203	8.06
6.110	2230	476,166	8.03
6.112	2231	474,130	8.00
6.115	2232	472,093	7.97
6.118	2233	470,057	7.94
6.121	2234	468,020	7.91
6.123	2235	465,984	7.88
6.126	2236	463,947	7.85
6.129	2237	461,911	7.82
6.132	2238	459,874	7.79
6.134	2239	457,838	7.76
6.137	2240	455,801	7.73
6.140	2241	453,765	7.70
6.142	2242	451,728	7.67
6.145	2243	449,692	7.64
6.148	2244	447,655	7.61
6.151	2245	445,619	7.58
6.153	2246	443,582	7.55
6.156	2247	441,546	7.52
6.159	2248	439,509	7.49
6.162	2249	437,473	7.46
6.164	2250	435,436	7.43
6.167	2251	433,400	7.40
6.170	2252	431,363	7.37
6.173	2253	429,327	7.34
6.175	2254	427,290	7.31
6.178	2255	425,254	7.28
6.181	2256	423,217	7.25
6.184	2257	421,181	7.22
6.186	2258	419,145	7.19
6.189	2259	417,108	7.16
6.192	2260	415,072	7.13
6.195	2261	413,035	7.10
6.197	2262	410,999	7.07
6.200	2263	408,962	7.04
6.203	2264	406,926	7.01
6.205	2265	404,889	6.98
6.208	2266	402,853	6.95
6.211	2267	400,816	6.92
6.214	2268	398,780	6.89
6.216	2269	396,743	6.86
6.219	2270	394,707	6.83
6.222	2271	392,670	6.80
6.225	2272	390,634	6.77
6.227	2273	388,597	6.74
6.230	2274	386,561	6.71
6.233	2275	384,524	6.68
6.236	2276	382,488	6.65

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
6.238	2277	380,451	6.62
6.241	2278	378,415	6.59
6.244	2279	376,378	6.56
6.247	2280	374,342	6.53
6.249	2281	372,305	6.50
6.252	2282	370,269	6.47
6.255	2283	368,232	6.44
6.258	2284	366,196	6.41
6.260	2285	364,159	6.38
6.263	2286	362,123	6.35
6.266	2287	360,087	6.32
6.268	2288	358,050	6.29
6.271	2289	356,014	6.26
6.274	2290	353,977	6.23
6.277	2291	351,941	6.20
6.279	2292	349,904	6.17
6.282	2293	347,868	6.14
6.285	2294	345,831	6.11
6.288	2295	343,795	6.08
6.290	2296	341,758	6.05
6.293	2297	339,722	6.02
6.296	2298	337,685	5.99
6.299	2299	335,649	5.96
6.301	2300	333,612	5.93
6.304	2301	331,576	5.90
6.307	2302	329,539	5.87
6.310	2303	327,503	5.84
6.312	2304	325,466	5.81
6.315	2305	323,430	5.78
6.318	2306	321,393	5.75
6.321	2307	319,357	5.72
6.323	2308	317,320	5.69
6.326	2309	315,284	5.66
6.329	2310	313,247	5.63
6.332	2311	311,211	5.60
6.334	2312	309,174	5.57
6.337	2313	307,138	5.54
6.340	2314	305,102	5.51
6.342	2315	303,065	5.48
6.345	2316	301,029	5.45
6.348	2317	298,992	5.42
6.351	2318	296,956	5.39
6.353	2319	294,919	5.36
6.356	2320	292,883	5.33
6.359	2321	290,846	5.30
6.362	2322	288,810	5.27
6.364	2323	286,773	5.24
6.367	2324	284,737	5.21
6.370	2325	282,700	5.18
6.373	2326	280,664	5.15
6.375	2327	278,627	5.12
6.378	2328	276,591	5.09

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
6.381	2329	274,554	5.06
6.384	2330	272,518	5.03
6.386	2331	270,481	5.00
6.389	2332	268,445	4.97
6.392	2333	266,408	4.94
6.395	2334	264,372	4.91
6.397	2335	262,335	4.88
6.400	2336	260,299	4.85
6.403	2337	258,262	4.82
6.405	2338	256,226	4.79
6.408	2339	254,189	4.76
6.411	2340	252,153	4.73
6.414	2341	250,116	4.70
6.416	2342	248,080	4.67
6.419	2343	246,044	4.64
6.422	2344	244,007	4.61
6.425	2345	241,971	4.58
6.427	2346	239,934	4.55
6.430	2347	237,898	4.52
6.433	2348	235,861	4.49
6.436	2349	233,825	4.46
6.438	2350	231,788	4.43
6.441	2351	229,752	4.40
6.444	2352	227,715	4.37
6.447	2353	225,679	4.33
6.449	2354	223,642	4.30
6.452	2355	221,606	4.27
6.455	2356	219,569	4.24
6.458	2357	217,533	4.21
6.460	2358	215,496	4.18
6.463	2359	213,460	4.15
6.466	2360	211,423	4.12
6.468	2361	209,387	4.09
6.471	2362	207,350	4.06
6.474	2363	205,314	4.03
6.477	2364	203,277	4.00
6.479	2365	201,241	3.97
6.482	2366	199,204	3.94
6.485	2367	197,168	3.91
6.488	2368	195,131	3.88
6.490	2369	193,095	3.85
6.493	2370	191,059	3.82
6.496	2371	189,022	3.79
6.499	2372	186,986	3.76
6.501	2373	184,949	3.73
6.504	2374	182,913	3.70
6.507	2375	180,876	3.67
6.510	2376	178,840	3.64
6.512	2377	176,803	3.61
6.515	2378	174,767	3.58
6.518	2379	172,730	3.55
6.521	2380	170,694	3.52

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
6.523	2381	168,657	3.49
6.526	2382	166,621	3.46
6.529	2383	164,584	3.43
6.532	2384	162,548	3.40
6.534	2385	160,511	3.37
6.537	2386	158,475	3.34
6.540	2387	156,438	3.31
6.542	2388	154,402	3.28
6.545	2389	152,365	3.25
6.548	2390	150,329	3.22
6.551	2391	148,292	3.19
6.553	2392	146,256	3.16
6.556	2393	144,219	3.13
6.559	2394	142,183	3.10
6.562	2395	140,146	3.07
6.564	2396	138,110	3.04
6.567	2397	136,073	3.01
6.570	2398	134,037	2.98
6.573	2399	132,001	2.95
6.575	2400	129,964	2.92
6.578	2401	127,928	2.89
6.581	2402	125,891	2.86
6.584	2403	123,855	2.83
6.586	2404	121,818	2.80
6.589	2405	119,782	2.77
6.592	2406	117,745	2.74
6.595	2407	115,709	2.71
6.597	2408	113,672	2.68
6.600	2409	111,636	2.65
6.603	2410	109,599	2.62
6.605	2411	107,563	2.59
6.608	2412	105,526	2.56
6.611	2413	103,490	2.53
6.614	2414	101,453	2.50
6.616	2415	99,417	2.47
6.619	2416	97,380	2.44
6.622	2417	95,344	2.41
6.625	2418	93,307	2.38
6.627	2419	91,271	2.35
6.630	2420	89,234	2.32
6.633	2421	87,198	2.29
6.636	2422	85,161	2.26
6.638	2423	83,125	2.23
6.641	2424	81,088	2.20
6.644	2425	79,052	2.17
6.647	2426	77,016	2.14
6.649	2427	74,979	2.11
6.652	2428	72,943	2.08
6.655	2429	70,906	2.05
6.658	2430	68,870	2.02
6.660	2431	66,833	1.99
6.663	2432	64,797	1.96

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining		Conc. mg/L	Year Post Remediation	Days Post Remediation	Conc. (mg/L)
6.666	2433	62,760		1.93			
6.668	2434	60,724		1.90			
6.671	2435	58,687		1.87			
6.674	2436	56,651		1.84			
6.677	2437	54,614		1.81			
6.679	2438	52,578		1.78			
6.682	2439	50,541		1.75			
6.685	2440	48,505		1.72			
6.688	2441	46,468		1.69			
6.690	2442	44,432		1.66			
6.693	2443	42,395		1.63			
6.696	2444	40,359		1.60			
6.699	2445	38,322		1.57			
6.701	2446	36,286		1.54			
6.704	2447	34,249		1.51			
6.707	2448	32,213		1.48			
6.710	2449	30,176		1.45			
6.712	2450	28,140		1.42			
6.715	2451	26,103		1.39			
6.718	2452	24,067		1.36			
6.721	2453	22,030		1.33			
6.723	2454	19,994		1.30			
6.726	2455	17,958		1.27			
6.729	2456	15,921		1.24			
6.732	2457	13,885		1.21			
6.734	2458	11,848		1.18			
6.737	2459	9,812		1.15			
6.740	2460	7,775		1.12			
6.742	2461	5,739		1.09			
6.745	2462	3,702		1.06			
6.748	2463	1,666	1	1.03	0.03004466		
6.751	2464	(371)		1			

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COMMITMENT & INTEGRITY DRIVE RESULTS

Appendix C
EPD Correspondence

Georgia Department of Natural Resources
Environmental Protection Division
2 Martin Luther King, Jr. Dr., Suite 1456, Atlanta, Georgia 30334
Judson H. Turner, Director
Phone (404) 656-4713

DEC 03 2014

VIA US MAIL AND EMAIL

Charles and Wendy Pero
c/o Theodore Sandler, Esq
The Sandler Law Group, LLC
6400 Powers Ferry Road, NW
Suite 200
Atlanta, Georgia 30339

Subject: Limitation of Liability
2211 Savoy Drive, Chamblee, Dekalb County, Georgia
County Tax Parcel ID No. 18-343-13-002
Fashion Care/Executive Care, HSI No. 10786

Dear Mr. and Mrs. Pero:

The Georgia Environmental Protection Division (EPD) has reviewed the Prospective Purchaser Compliance Status Report (PPCSR), dated October 30, 2014, and the Georgia Brownfields Eligibility Form, dated November 11, 2014, submitted for the above referenced property (subject property). The subject property is identified as Dekalb County Tax Parcel 18-343-13-002 (0.656 acres) and is described in the attached legal description marked Exhibit A and the attached Tax Parcel Map marked Exhibit B.

The PPCSR was submitted to support your request for a limitation of liability for the subject property pursuant to Section 12-8-200 *et seq*. of the Brownfield Act (Act). EPD has determined that the PPCSR is complete and concurs with your certification of compliance that soil at the subject property is in compliance with the Type 5 Risk Reduction Standards in Section 391-3-19-.07 of the Rules for Hazardous Site Response.

EPD hereby grants Charles and Wendy Pero (Peros) the limitation of liability provided for in Section 12-8-207 of the Act for pre-existing releases at the subject property. This limitation of liability is subject to all conditions set forth in the Act and as follows:

1. The Peros must submit a notice of purchase of the above referenced property by no later than ten (10) days after closing to EPD. Please include documentation of the prohibition of the use of tetrachloroethene on the Property.

2. The Peros will give any responsible party for groundwater contamination and/or EPD access to the subject property to perform groundwater sampling and to implement an EPD approved corrective action plan or workplan for groundwater.

3. The Peros will ensure that the requirements of the Uniform Environmental Covenant (UEC) are abided by and that the required engineering controls are properly operated and maintained.

4. In the event that the Peros wish to sell the subject property, the Peros must provide fifteen (15) days notice to EPD of its intent to offer for sale the subject property or any portion thereof. All documents offering the subject property or portion of the subject property for sale will include a copy of the PPCSR, the UEC, any other documents required by the UEC or the Act, and a copy of this letter. EPD shall be provided with the name, address, phone number, and contact person for the new property owner(s) within ten (10) days of sale.

5. For the purpose of determining liability for continuing or future releases of regulated substances upon or from the properties, the background or baseline concentration for any and all releases will be based on the information provided in the PPCSR pursuant to Section 12-8-208(d) of the Act.

The Act as amended and effective July 1, 2002 (specifically Code Section 12-8-207) states that upon the Director's approval of the Prospective Purchaser Corrective Action Plan or concurrence with the certification of compliance with Risk Reduction Standards for soil and source contained in Section 391-3-19-.07 of the Rules for Hazardous Site Response, whichever first occurs, a prospective purchaser shall not be liable to the state or any third party for costs incurred in the remediation of, equitable relief relating to, or damages resultant from the pre-existing release. Further, the prospective purchaser shall not be required to certify compliance with Risk Reduction Standards for groundwater, perform corrective action, or otherwise be liable for any pre-existing releases to groundwater associated with the qualifying properties.

EPD's approval of the PPCSR extends only to those technical aspects of the document that expressly require EPD approval under applicable rules and statutes. This approval is not an endorsement by EPD that it accepts as conclusive any representations made in the document. Nor does EPD guarantee or warrant that the document is free of errors or omissions. EPD may later withdraw approval of this document, in whole or in part, if EPD determines that withdrawal is necessary to ensure compliance with the applicable rules and statutes. EPD hereby approves the PPCSR subject to the conditions enumerated above.

If you have any questions, please contact Robin S. Futch, P.G. at 404-657-8686.

Sincerely,

Judson H. Turner
Director

c: Len Diprima, Woodard & Curran (via email)

Attachments: 1. Exhibit A: Legal Description of the Subject Property
2. Exhibit B: Dekalb County Tax Parcel Map

File: HSI 10786

Exhibit A

LEGAL DESCRIPTION (BASED ON THIS SURVEY)

All that tract or parcel of land lying and being in Land Lot 343 of the 18th Land District, City of Chamblee, Dekalb County, Georgia, said tract or parcel of land being more fully shown and designated on a plat of survey prepared by Valentino & Associates, Inc. (Job #14-063; Drawing/File #14-063), bearing the seal of Glenn A. Valentino, Ga. Registered Land Surveyor #2528, and being more particularly described, with bearings relative to Grid North, Georgia West Zone, as follows:

BEGINNING at a 1/2"iron pin set at the intersection of the westerly right-of-way line of North Peachtree Road (70' public r/w) and the line which divides Land Lots 334 and 343.

THENCE proceeding along said line which divides Land Lots 334 and 343 North 89 degrees 50 minutes 35 seconds West for a distance of 213.00 feet to a 1/2"iron pin set;

THENCE departing said line which divides Land Lots 334 and 343 North 21 degrees 58 minutes 35 seconds West for a distance of 126.48 feet to a computed point;

THENCE North 21 degrees 58 minutes 35 seconds West for a distance of 32.37 feet to a PK (masonry) nail set;

THENCE North 15 degrees 33 minutes 54 seconds East for a distance of 114.65 feet to a PK nail set on the southerly right-of-way line of Savoy Drive (variable width public r/w);

THENCE proceeding along said southerly right-of-way line of Savoy Drive South 75 degrees 38 minutes 07 seconds East for a distance of 100.03 feet to a PK nail set;

THENCE departing said southerly right-of-way line of Savoy Drive South 15 degrees 23 minutes 37 seconds West for a distance of 86.07 feet to a railroad spike found;

THENCE South 22 degrees 56 minutes 23 seconds East for a distance of 111.63 feet to a PK nail set;

THENCE South 60 degrees 14 minutes 53 seconds East for a distance of 60.02 feet to a railroad spike found;

THENCE South 89 degrees 50 minutes 35 seconds East for a distance of 75.00 feet to a PK nail set on the westerly right-of-way line of North Peachtree Road;

THENCE proceeding along said westerly right-of-way line of North Peachtree Road South 09 degrees 33 minutes 55 seconds West for a distance of 18.00 feet to a 1/2"iron pin set at the intersection of said westerly right-of-way line of North Peachtree Road and the line which divides Land Lots 334 and 343, said 1/2"iron pin set being the POINT OF BEGINNING.

Together with and subject to covenants, easements, and restrictions of record.

Said tract or parcel of land contains 0.656 acres or 28,554 square feet, and is intended to be a portion of the same tract of land that was previously conveyed in Deed Book 15562, Page 660, Dekalb County Georgia Records.

Exhibit B

FIGURE 2
TAX PARCEL MAP
2211 SAVOY DRIVE
CHAMBLEE, GEORGIA

REV	DESCRIPTION	DATE

DESIGNED BY: CHECKED BY:
DRAWN BY: DATE:

WOODARD & CURRAN
2055 Sugarloaf Circle, Suite 175
Duluth, Georgia 30097
770.622.6766 | www.woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

VOLUNTARY REMEDIATION PROGRAM
VOLUNTARY REMEDIATION PLAN APPLICATION

Date: July 9, 2010

Site Name: Fashion Care/Executive Care Site, HSI No. 10786

Site Address: 2211 Savoy Drive, Chamblee, Georgia

County: DeKalb

This electronic copy of the Voluntary Remediation Plan Application for the above referenced Fashion Care/Executive Care Site, HSI No. 10786, 2211 Savoy Drive, Chamblee, Georgia, DeKalb County is complete, identical to the paper copy, and virus free.

Voluntary Remediation Plan Application
Voluntary Remediation Program

Fashion Care/Executive Care Site
HSI No. 10786
2211 Savoy Drive, Chamblee, DeKalb County, Georgia

Prepared For

John F. Rowan, Sr. Item IV Trust
1300 Hestertown Road
Madison, GA 30650

Prepared by

WINTER ENVIRONMENTAL
Project No. 08096

July 9, 2010

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Voluntary Remediation Plan Application Form and Checklist

VRP APPLICANT INFORMATION					
COMPANY NAME	John F. Rowan, Sr., Item IV Trust				
CONTACT PERSON/TITLE	Catherine Norris, Representative				
ADDRESS	P.O. Box 82, Rancho Santa Fe, CA 92067				
PHONE	(206) 240-8631	*FAX*	N/A	*E-MAIL*	catnorr@gmail.com

GEORGIA CERTIFIED PROFESSIONAL GEOLOGIST OR PROFESSIONAL ENGINEER OVERSEEING CLEANUP					
NAME	Leonard J. Diprima, Jr.			*GA PE/PG NUMBER*	949
COMPANY	Winter Environmental (The Winter Construction Company)				
ADDRESS	3350 Green Pointe Parkway, Suite 200, Norcross, GA 30092				
PHONE	(404) 965-3348	*FAX*	(404) 233-6251	*E-MAIL*	Ldiprima@winter-environmental.com

APPLICANT'S CERTIFICATION

In order to be considered a qualifying property for the VRP:
(1) The property must have a release of regulated substances into the environment;
(2) The property shall not be:
- (A) Listed on the federal National Priorities List pursuant to the federal Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. Section 9601.
- (B) Currently undergoing response activities required by an order of the regional administrator of the federal Environmental Protection Agency; or
- (C) A facility required to have a permit under Code Section 12-8-66.

(3) Qualifying the property under this part would not violate the terms and conditions under which the division operates and administers remedial programs by delegation or similar authorization from the United States Environmental Protection Agency.
(4) Any lien filed under subsection (e) of Code Section 12-8-96 or subsection (b) of Code Section 12-13-12 against the property shall be satisfied or settled and released by the director pursuant to Code Section 12-8-94 or Code Section 12-13-6.
In order to be considered a participant under the VRP:
- (1) The participant must be the property owner of the voluntary remediation property or have express permission to enter another's property to perform corrective action.
- (2) The participant must not be in violation of any order, judgment, statute, rule, or regulation subject to the enforcement authority of the director.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
I also certify that this property is eligible for the Voluntary Remediation Program (VRP) as defined in Code Section 12-8-105 and I am eligible as a participant as defined in Code Section 12-8-106.

APPLICANT'S SIGNATURE			
APPLICANT'S NAME/TITLE (PRINT)	Catherine Norris, Trustee	DATE	7/9/10

QUALIFYING PROPERTY INFORMATION			
TAX PARCEL ID	18-343-13-002	*PROPERTY SIZE (ACRES)*	0.61
PROPERTY ADDRESS	2211 Savoy Drive		
CITY	Chamblee	*COUNTY*	DeKalb
LATITUDE	33° 55′ 08.82″ N	*LONGITUDE*	84° 17′ 52.56″ W
PROPERTY OWNER(S)	John F. Rowan, Sr., Item IV Trust	*PHONE #*	(206) 240-8631
MAILING ADDRESS	P.O. Box 82		
CITY	Rancho Santa Fe	*STATE/ZIP*	CA 92067
TAX PARCEL ID	18-343-13-005	*PROPERTY SIZE (ACRES)*	0.51
PROPERTY ADDRESS	4306 North Peachtree Road		
CITY	Chamblee	*COUNTY*	DeKalb
LATITUDE	33° 55′ 08.05″ N	*LONGITUDE*	84° 17′ 54.35″ W
PROPERTY OWNER(S)	Mr. H.A. Rowan, Southern Automatic Company	*PHONE #*	
MAILING ADDRESS	4420 Tree Haven Drive, NE		
CITY	Atlanta	*STATE/ZIP*	GA 30342-3426
TAX PARCEL ID	18-343-13-001	*PROPERTY SIZE (ACRES)*	0.69
PROPERTY ADDRESS	4308 North Peachtree Road		
CITY	Chamblee	*COUNTY*	DeKalb
LATITUDE	33° 55′ 08.98″ N	*LONGITUDE*	84° 17′ 51.14″ W
PROPERTY OWNER(S)	Mr. Marvin Hewatt, Georgia-Alabama Commercial Investments, LLC	*PHONE #*	
MAILING ADDRESS	2875 University Parkway		
CITY	Lawrenceville	*STATE/ZIP*	Georgia 30043

TAX PARCEL ID	18-333-02-023	*PROPERTY SIZE (ACRES)*	10.45
PROPERTY ADDRESS	No street address		
CITY	Chamblee	*COUNTY*	DeKalb
LATITUDE	33° 55’ 06.82” N	*LONGITUDE*	84° 17’ 54.51” W
PROPERTY OWNER(S)	Asl Limited Partnership	*PHONE #*	
MAILING ADDRESS	1515 S. Federal Hwy., #300		
CITY	Boca Raton	*STATE/ZIP*	FL 33432-7451

ITEM #	DESCRIPTION OF REQUIREMENT	Location in VRP (i.e. pg., Table #, Figure #, etc.)	For EPD Comment Only (Leave Blank)
1.	**$5,000 APPLICATION FEE** IN THE FORM OF A CHECK PAYABLE TO THE GEORGIA DEPARTMENT OF NATURAL RESOURCES.	Attached	
2.	**WARRANTY DEED(S)** FOR QUALIFYING PROPERTY.	Appendix A	
3.	**TAX PLAT** OR OTHER FIGURE INCLUDING QUALIFYING PROPERTY BOUNDARIES, ABUTTING PROPERTIES, AND TAX PARCEL IDENTIFICATION NUMBER(S).	Figure 2	
4.	**ONE (1) PAPER COPY AND TWO (2) COMPACT DISC (CD) COPIES** OF THE VOLUNTARY REMEDIATION PLAN IN A SEARCHABLE PORTABLE DOCUMENT FORMAT (PDF).	Enclosed	
5.	The VRP participant’s initial plan and application must include , using all reasonably available current information to the extent known at the time of application, a graphic three-dimensional preliminary conceptual site model (CSM) including a preliminary remediation plan with a table of delineation standards, brief supporting text, charts, and figures (no more than 10 pages, total) that illustrates the site’s surface and subsurface setting, the known or suspected source(s) of contamination, how contamination might move within the environment, the potential human health and ecological receptors, and the complete or incomplete exposure pathways that may exist at the site; the preliminary CSM must be updated as the investigation and remediation progresses and an up-to-date CSM must be included in each semi-annual status report submitted to the director by the participant; a **PROJECTED MILESTONE SCHEDULE** for investigation and remediation of the site, and after enrollment as a participant, must update the schedule in each semi-annual status report to the director describing implementation of the plan during the preceding period. A Gantt chart format is preferred for the milestone schedule. The following four (4) generic milestones are required in all initial plans with the results reported in the participant’s next applicable semi-annual reports to the director. The director may extend the time for or waive these or other milestones in the participant’s plan where the director determines, based on a showing by the participant, that a longer time period is reasonably necessary:	Enclosed	
5.a.	Within the first 12 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern on property where access is available at the time of enrollment;	**Complete Section 6, Figures 5 & 6**	

		Tables 2, 4, 5 &6	
5.b.	Within the first 24 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern extending onto property for which access was not available at the time of enrollment;	Complete Section 6, Figures 5 & 6 Tables 2, 4, 5 &6	
5.c.	Within 30 months after enrollment, the participant must update the site CSM to include vertical delineation, finalize the remediation plan and provide a preliminary cost estimate for implementation of remediation and associated continuing actions; and	To be completed	
5.d.	Within 60 months after enrollment, the participant must submit the compliance status report required under the VRP, including the requisite certifications.	To be completed	
6.	**SIGNED AND SEALED PE/PG CERTIFICATION AND SUPPORTING DOCUMENTATION:** "I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances. Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." Leonard J. Diprima, Jr. / Georgia PG #949 — 7/9/2010 Printed Name and GA PE/PG Number — Date Signature and Stamp LEONARD J. DIPRIMA, JR. No. 949 GEORGIA REGISTERED PROFESSIONAL GEOLOGIST		

VOLUNTARY REMEDIATION PLAN FORM 03/30/2010

Section 1
Introduction

Winter Environmental has prepared this Voluntary Remediation Plan Application (VRPA) for the Fashion Care/Executive Care Site (Site), Hazardous Site Inventory (HSI) No. 10786, located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, on behalf of the John F. Rowan, Sr. Item IV Trust (Trust). The Site location is presented on Figure 1. The VRPA is intended for review by the Georgia Environmental Protection Division (EPD) under the Voluntary Remediation Program Act (Act). This VRPA was prepared in response to correspondence from the HSRA Program to the Trust dated February 23, 2010, which presented a proposed Consent Order under the Hazardous Sites Response (HSRA) Program and also requested a revised Corrective Action Plan (CAP) be submitted by July 1, 2010. This VRPA is submitted in place of a revised HSRA CAP and is intended, if approved by the EPD, to move the Site from the HSRA Program into the Voluntary Remediation Program (VRP).

The Trust property and other impacted properties statuses have been reviewed, and each meets the requirements of a "qualifying property" as defined by the Act. The Trust property is currently listed on the HSI for a release of chlorinated solvents in soil. None of the properties are listed on the federal National Priorities List; are not undergoing response activities required by the United States Environmental Protection Division (USEPA); are not a permitted facility under the Resource Conversation Recovery Act (RCRA); and do not have any liens filed against the property pursuant to OCGA 12-8-96(e) or 12-13-12(b). All of the properties are impacted by a release of regulated chemicals to the environment. The Trust property is identified as parcel 18-343-13-002. Other properties impacted by the release of regulated chemicals from the Trust property include parcels 18-343-13-005, 18-343-13-001, and 18-333-02-023, which have been identified through the horizontal delineation of the release. Figure 2 is a tax parcel map that shows the location of these properties. Access to these properties for delineation purposes has been obtained through access agreements executed between the Trust and the owners of each property. Warranty Deeds for these qualifying properties are in Appendix A.

The Trust property currently has a single, one-story building that contains a drycleaner on the west side with on site cleaning, and a restaurant on the east side. A drycleaner has been located in the building since the building was constructed in the 1960's. The east side of the building has contained various retail businesses. The remainder of the property is paved with asphalt.

Parcel 18-343-13-005, street address 4306 North Peachtree Road, Chamblee, Georgia is immediately to the west, and is owned by Mr. H.A. Rowan, Southern Automatic Company, 4420 Tree Haven Drive, NE, Atlanta, GA 30342-3426. The property has a single, one-story building that contains a dentist office, a beauty shop, and other retail stores. The remainder of the property is paved with asphalt.

Parcel 18-343-13-001, street address 4308 North Peachtree Road, Chamblee, Georgia is immediately to the east, is owned by Mr. Marvin Hewatt, Georgia-Alabama Commercial Investments, LLC, 2875

University Parkway, Lawrenceville, Georgia 30043. The property has a single, one-story building that contains a gas station (UST Facility I.D. No. 900341*1; EZ-Serve Site). The remainder of the property is paved with asphalt and concrete. This property is currently undergoing remediation through the EPD Underground Storage Tank Management Program (UST Program). A dual-phase extraction system is operating to recover free-phase gasoline on the property. The dissolved phase gasoline constituents have migrated off the property the south and west. The current remediation system is not designed to address the groundwater plume. The plume has comingled with the dissolved-phase chlorinated solvent plume originating from the Trust property. The UST remediation is being conducted by the UST Program, by a UST Program contractor.

Parcel 18-333-02-023, has no street address and is immediately to the east. It is owned by Asl Limited Partnership, 1515 S. Federal Hwy., #300. Boca Raton, FL 33432-7451; and is wooded, undeveloped property. The south side of the parcel borders Nancy Creek.

As stated above, the Site has a release of chlorinated solvents that originated from historical drycleaner operations that utilized tetrachloroethene (PCE). The current drycleaner tenant recently discontinued the use of PCE in their operations and replaced the PCE machine with a non-chlorinated solvent based drycleaning machine. No PCE remains on the Site and the last suspected source of a continued release, a leaking sanitary sewer collection sump that was part of the original building construction in the rear of the building, has been resealed. The constituents of interest (COI) established during the HSRA investigation, and approved by the HSRA Program, are PCE and its regulated degradation constituents and are listed in Table 1.

Section 2
Previous Environmental Investigations

Prior to Winter Environmental's involvement, several phases of soil investigation had been conducted under the HSRA Program at the Site by Epic Consulting, Inc. of Atlanta, Georgia (Epic). The Epic soil investigations were conducted in August 2006 and April 2007. The focus of Epic's investigations was to define the extent of HSRA regulated chemicals in soil above non-residential risk reduction standards (RRS). Petroleum constituents associated with historical releases from the adjacent Former E-Z Serve Underground Storage Tank (UST) site were also identified in soil on the Site above applicable Georgia UST Program Threshold Levels.

On May 31, 2007, Epic submitted a Revised CAP to the HSRA Program, proposing *in situ* chemical oxidation of chlorinated solvent impacted soil at the Fashion Care Site. This revised CAP was approved by the HSRA Program in correspondence dated December 28, 2007 with a number of conditions. Primary among these was the recommendation by the HSRA Program that a remediation process be utilized that would address both impacted soil and groundwater at the Site, and a reminder that chlorinated solvent groundwater impacts had neither been delineated nor addressed in the May 31, 2007 Revised CAP.

The Trust placed Winter Environmental under contract to move forward with implementation of the CAP, with a focus on addressing both soil and groundwater impacts at the Site. Since 2008, Winter Environmental has defined the horizontal extent of the COI groundwater plume, conducted a chemical oxidation event to attempt to remediate soil impacts, and collected additional soil samples for delineation and to determine the effectiveness of the chemical oxidation event. Soil analytical data collected at the Site is presented in Table 2. All groundwater samples collected by Winter Environmental since 2008, and those collected by the UST Program for the adjacent UST site in 2008, are presented in Table 3. The most recent groundwater samples collected by Winter Environmental in 2010 are presented in Table 4. Surface water samples collected from Nancy Creek by Winter Environmental in 2008 and 2010 are presented in Table 5. Sediment samples collected from Nancy Creek by Winter Environmental in 2010 are presented in Table 6. Soil sample locations collected under the HSRA Program are shown on Figures 3 and 4. Groundwater sample locations for the Site are presented on Figure 5. Surface water and sediment sample locations are presented on Figure 5. A compact disk containing boring logs and monitoring well construction logs installed by Winter Environmental is in Appendix B. Previous data produced by Epic was presented to the HSRA Program in the May 31, 2007 Revised CAP. Sample collection logs and laboratory analytical data reports will be submitted with the VRP Compliance Status Report, unless requested by EPD at an earlier date.

Section 3
Previous Corrective Actions

Winter Environmental implemented, with some EPD approved modifications, the soil remediation approved in the HSRA May 31, 2007 Revised CAP prepared by Epic. A treatability study was conducted for designing the remediation of the soil above RRS using insitu chemical oxidation. A treatability study report was prepared by ExoTech, Inc. of Lilburn, Georgia. Prior to the remediation event an Underground Injection Permit was obtained from the EPD; UIC Permit #393. A total of 21 soil injection wells were installed in and around the impacted soil area that was to be treated using sodium persulfate. The location of the injection wells relative to the impacted soil area is shown on Figure 3. The injection event was conducted on March 18 and March 19, 2009, injecting 4,480 lbs of sodium persulfate activated with 66 lbs of chelated iron, using 2,200 gallons of mixture. An Injection Summary report prepared was prepared by ExoTech, Inc. following the remediation event.

On May 8, 2009 and May 18, 2009, soil remediation confirmation samples were collected following the soil chemical injection event. Soil samples were collected from nine sample locations, SB-28 through SB-36, as requested by the EPD. The confirmation sample locations are shown on Figure 4. Samples were collected from three intervals from each boring; 0 to 2 feet bgs, approximately midway to the water table, and from the approximate two foot interval immediately above the water table. The confirmation soil sample laboratory results are presented in Table 7. The post-chemical oxidation sample results showed concentrations with little or no reduction, and some cases significantly higher concentrations of constituents than the pre-remediation design concentrations. Previously, the highest concentration of PCE in soil, 18.0 mg/kg, was in SB-27 at 0 to 2 feet bgs, immediately beneath the historical source, the old PCE drycleaner machine. PCE concentrations in the post-remediation samples were higher on average at all locations than seen in the 2006 and 2007 Epic data, with concentrations up to 3,800 mg/kg at SB-32, 6 to 8 feet bgs. Tetrachloroethene (TCE) and cis-1,2-dichloroethene were also found above non-residential RRS at higher concentrations than had been seen in previous soil samples collected at the Site. Non-residential RRS exceedances of one or more of these constituents were found in all but one of the confirmation sample locations, SB-29. These higher concentrations appeared to be the result of the continued release of hazardous substances by the current drycleaning operations. Further releases were mitigated by the removal of the PCE drycleaning equipment from the Site and sealing of the sanitary system sump in the rear of the building. No additional soil remediation has been conducted at the Site. A summary of the soil remediation event was submitted to the EPD HSRA Program in correspondence dated September 10, 2009.

No active groundwater remediation has been conducted at the Site.

Section 4
Site Topography/Geology/Hydrogeology

Topography across the Site based upon visual relief and survey elevations of soil borings and monitoring wells, slopes gently to the south-southwest from Savoy Drive to Nancy Creek. The banks of Nancy Creek adjacent to the Site are near vertical, dropping approximately 10 to 12 feet to the normal water level. On the south side of Nancy Creek, across from the Site, the topography begins to immediately rise approximately 260 feet to a knoll.

Surficial geology across the Site consists primarily of reddish-brown silt with varying minor amounts of sand and clay, overlying a grey to tan and grey silty sand to sandy silt with pebbles; which overlies a hard, dry silt of varying color across the Site. All of the soil encountered is residual soil becoming more saprolitic with relict rock structure with depth. The water table in May 2010 was present at approximately 12 feet below grade to approximately 9 feet below grade near Nancy Creek. The saturated soil zone appears to be divided into an upper and lower water bearing zone, separated by the hard, dry silt indicated above. The thickness of the potential upper water bearing zone appears to be greater near Savoy Drive and thins as Nancy Creek is approached. This is based upon the evidence that the upper water bearing zone is thinner adjacent to Nancy Creek where saturated conditions are encountered in borings as shallow as 5 feet below grade and the hard dry silt is encountered at 8 to 16 feet below grade. The hard dry silt appears to generally correspond to the streambed of Nancy Creek adjacent to the Site. It is theorized that the hard dry silt has not been encountered in the borings near Savoy Drive because all the boring have penetrated the water table generally no more than 7 to 8 feet to set shallow wells and the upper water bearing zone in this area is thicker. Installation of a deeper Type III monitoring well near the Fashion Care building as part of the VRP will attempt to verify this division in the water table aquifer on Site. This could be significant in the evaluation of vertical extent of groundwater impacts. It is possible that the deep well, MW-23D, installed by the UST Program contractor, may have penetrated the dry silt separating the shallow water bearing zones and provided a conduit for vertical migration of COI. MW-23D is the only deep well on Site and has screen set at the top of bedrock at 55 feet below grade. Boring and monitoring well construction logs installed by Winter Environmental, and installed by the UST Program contractor for the EZ-Serve gas station site are included in Appendix B.

Potentiometric surface maps were constructed using the monitoring wells on Site, was constructed for the water table aquifer based upon measurements collected on March 28, 2010 and May 28, 2010. The potentiometric surface maps are presented on Figures 6 and 7. Based upon these measurements, groundwater flow is generally to the south-southwest toward Nancy Creek across the Site. Water table measurements collected by Winter Environmental in 2008 and 2010 are presented in Table 7.

Slug tests were conducted in monitoring wells FMW-4 and FMW-5 to determine hydraulic conductivity in the water table shallow water bearing zones. The hydraulic conductivity ranged from 0.00011 feet per second (FMW-4, slug-out) to 0.00025 feet per second (FMW-5, slug-out). The hydraulic gradient

across the site is approximately 0.0122 ft/ft based upon May 28, 2010 water table measurements between SB-24 and FMW-6. Slug test data is presented in Appendix B.

Section 5
Extent of Soil, Groundwater, Surface Water, and Sediment Impacts

The data collected during the Epic investigations and the Winter Environmental investigation were used to determine the extent of COI in the various media at the Site. All Winter Environmental sample locations and existing structures on Site were surveyed by a Georgia registered land surveyor. The Epic sample locations were determined from figures in the May 31, 2007 Revised CAP prepared by Epic.

5.1 Extent of COI in Soil

The estimated extent of soil impacts relative to HSRA Type 1 RRS is presented on Figure 4. This figure is based upon the soil samples collected from the treated area following the soil remediation event conducted in 2008, and from soil samples collected by Epic outside the soil remediation event area. Soil impacts above the VRP delineation criteria used for this Site (HSRA Type 1 RRS) is limited to the Trust property. Specifically, soil impacts are present beneath the south-southwestern corner of the building and extend horizontally to a limited area just outside the building. Impacts extend vertically from immediately beneath the building's concrete slab and asphalt outside, to the water table approximately 12 feet below ground surface (bgs). Soil analytical data is presented in Table 2.

5.2 Extent of COI in Groundwater

The estimated extent of COI in groundwater relative to HSRA Type 1 RRS based upon May and June 2010 data is presented on Figure 7. This is based upon groundwater samples collected in March and June of 2010. The analytical data used to prepare Figure 7 are presented in Table 4. UST release constituents in groundwater across the Site are also presented in Tables 3 and 4. Groundwater COI have migrated to the south-southwest from the release area and the plume has intersected Nancy Creek. The properties affected by COI at concentrations above the VRP delineation criteria used for this Site (HSRA Type 1 RRS), in addition to the Trust property, are parcels 18-343-13-005, 18-343-13-001, and 18-333-02-023. The COI groundwater plume has been extended to the northwest by the operation of the DPE remediation system operating on the UST site based upon a comparison of 2008 groundwater data collected prior to the DPE operating, and 2010 groundwater data collected since the DPE system has been in operation.

5.3 Extent of COI in Surface Water

Surface water samples have been collected by Winter Environmental in 2008 and 2010. Surface water samples were collected at three locations shown on Figure 5 during each sampling event; SW-1 upstream of the intersecting groundwater plume, SW-2 and SW-3 within the area where the groundwater plume intersects the creek. Based upon the samples collected by Winter Environmental in 2008 and 2010, surface water is not being impacted above standard laboratory method practical quantitation limits (PQLs) as a result of the COI groundwater plume discharging to Nancy Creek. Table 5 presents the surface water analytical data collected by Winter Environmental. Surface water data

collected from the Site by Epic, and presented in the May 31, 2007 Revised CAP, also did not detect COI above PQLs.

5.4 Extent of COI in Sediment

Sediment samples were collected at three locations shown on Figure 5 in May 2010; SD-3 upstream of the intersecting groundwater plume, SD-2 within the area where the groundwater plume intersects the creek, and SD-1 down stream of the area where the groundwater plume intersects the creek. Based upon the sediment samples collected by Winter Environmental in 2010, sediments are not being impacted above standard laboratory method PQLs for COI as a result of the groundwater plume discharging to Nancy Creek. Table 6 presents the sediment analytical data.

Section 6
Exposure Pathways and Potential Receptors

An evaluation of potential exposure pathways and receptors was conducted for the Site based upon the data collected to date. A conceptual site model of the exposure pathways for the Site, discussed below, is shown as Figure 8. The exposure pathways evaluated include:

- Potential exposure to vapor-phase COI from impacted soil and groundwater;
- Potential exposure to COI in soil;
- Potential exposure to COI in groundwater;
- Potential exposure to COI in surface water; and
- Potential exposure to COI in sediment.

It was concluded that the following exposure pathways are currently incomplete:

- Exposure to COI in soil due to the impacted soil area being covered by asphalt and concrete;
- Exposure to COI in groundwater because there are no groundwater users in the area overlying the groundwater plume;
- Exposure to COI in surface water because several rounds of surface water samples have not detected COI; and
- Exposure to COI in sediment because sediments samples collected at the Site did not detect COI.

It has been assumed that the exposure pathway for vapor-phase COI into the building on the Trust property is complete based upon the high concentrations of COI in soil and groundwater beneath the building; therefore, no vapor modeling was conducted. Vapor sampling was not conducted within the building because chlorinated solvents had been used in the drycleaner area since the 1960's until 2009, and representative samples of vapor-phase COI emanating from soil and groundwater would be difficult to collect. Based upon the assumption that the vapor-phase pathway is complete, and human exposure is possible, engineering controls will be implemented under the VRP to mitigate this exposure pathway. These engineering controls are discussed in Section 7.1.

It has been conservatively determined that the following exposure pathways have the potential to become complete in specific circumstances in the future on one or more of the impacted properties:

- Exposure to COI in soil during subsurface worker activities and future construction activities within the boundaries where COI are greater than Type 1 RRS on the Trust property;
- Exposure to COI in groundwater, if groundwater is used for irrigation, potable use, or during construction dewatering within the boundaries of the plume where COI are greater than Type 1 RRS on any of the impacted properties;

- Exposure to vapor-phase COI from impacted groundwater where enclosed structures are built in the future within the boundaries of the plume where COI are greater than Type 1 RRS; and
- Exposure to COI in surface water and sediment where the groundwater plume intersects Nancy Creek.

The possibility of potential exposure to COI in soil during subsurface worker activities and future construction activities on the Trust property, and the possibility of potential exposure to COI in groundwater on all impacted properties will be addressed through the use of institutional controls and is discussed in Section 7.2.

The possibility of potential exposure to vapor-phase COI from impacted groundwater where enclosed structures are built in the future within the boundaries of the plume will be addressed through the use of institutional and engineering controls and is discussed in Section 7.2.

The possibility of potential exposure to COI in surface water and sediment where the groundwater plume intersects Nancy Creek has been examined through the use of a site-specific mixing zone analysis. To date, surface water and sediment data collected from Nancy Creek has shown that COI are not detected above laboratory method PQLs, ISWQS, Type 1 RRS for groundwater, or HSRA RRS for soil, as applicable. However, it is known that the COI groundwater plume is discharging to the creek along a broad front on parcel 18-333-02-023. Therefore, a mixing zone analysis was conducted to evaluate the potential that sediment and/or surface water could be impacted in the future above ISWQS, Type 1 RRS for groundwater, or HSRA RRS for soil, as applicable; completing an exposure pathway for human exposure and flora and fauna exposure. The details of the mixing zone analysis are presented in Appendix C. The analysis concluded that the groundwater plume, based upon the calculations and the fact that no additional PCE is entering the subsurface from drycleaner operations, will not impact Nancy Creek above regulatory standards resulting in a completed exposure pathway. To confirm the results of the mixing zone analysis, the creek will be established as the downgradient point of exposure for the groundwater plume, and a monitoring plan will be developed as part of the VRP corrective action. The monitoring plan for the groundwater plume point of exposure is discussed in Section 7.3.

A water supply survey was also conducted to determine if there was the potential for exposure to groundwater impacts from the Site. A detailed windshield survey was conducted by Winter Environmental within a 1-mile radius of the Site. No residences or businesses were identified using groundwater wells for potable, industrial or irrigation use. All appeared to be connected to the local water system through a water meter. In addition, the USGS groundwater well database was searched within a 1-mile radius of the Site and no wells were identified.

Also, a May 19, 2004 EPD internal memorandum regarding a Field inspection of the Site was reviewed. The EPD Field Inspection conducted a well survey within a 3-mile radius of the Site and did not identify any groundwater use. It also stated that the EPD inquired with a DeKalb County building inspector, who stated that all residences in the area were on the DeKalb County water system. To update this

information, Winter Environmental contacted DeKalb County who confirmed that all residences and businesses in the area remain on the DeKalb County water system. In addition, there are no public surface water intakes within 3 miles downgradient of the Site. Therefore, there are no complete or potential exposure pathways through groundwater or surface water use. The May 19, 2004 EPD internal memorandum and the USGS Well Inventory results are in Appendix D.

Information on rare or endangered species for the Site area was obtained from the Georgia Department of Natural Resources Wildlife Resources Division website, Georgia Rare Species and Natural Community Information (http://www.georgiawildlife.com/node/1370). Information was obtained by literature search only from this website. The Site is located in the southeast quadrant of the Chamblee USGS Quadrangle. One plant species was indentified in this quarter quadrangle which is listed as a threatened species in the State of Georgia; the Bay Star-vine (Schisandra glabra). The habitat for this species is as follows: found twining over understory trees and shrubs in rich, forested bottomlands and adjacent lower slopes; sometimes older vines occur on trunks of overstory trees, or sprawl along the ground forming patches rooted in the litter, especially near mountain laurel (Kalmia latifolia) thickets. It is possible that this species could inhabit the wooded, undeveloped environment found on parcel 18-333-02-023 bordering Nancy Creek, however, an on site reconnaissance was not conducted. If present, the groundwater impacts on this parcel, and the corrective measures implemented under the VRP for the Site are not anticipated to impact the species. Information obtained from the Georgia Department of Natural Resources Wildlife Resources Division website is in Appendix E.

Section 7
Proposed Corrective Action

Soil and groundwater are impacted with chlorinated solvents and their degradation products at the Fashion Care/Executive Care Site. As a result, there is one assumed complete exposure pathway, vapor intrusion into an existing structure, and several exposure pathways that are incomplete but have the potential become complete in the future. The purpose of the VRP corrective action measures presented below for the Site are to mitigate the exposure pathways which are assumed to be complete; and to put institutional and engineering control requirements in place to mitigate the potential for currently incomplete exposure pathways from becoming complete in the future.

Also, a point of exposure monitoring plan of limited duration is proposed to verify existing data and mixing calculations which indicate that impacted groundwater discharging into Nancy Creek will not become present at levels of concern, resulting in a completed exposure pathway for human health or flora/fauna.

7.1 Engineering Controls

Engineering controls will be implemented as follows:

- A vapor collection system will be installed beneath the existing building on the Trust property (parcel 18-343-13-002) to mitigate the vapor intrusion pathway that has been assumed to be complete as a result of the presence of impacted soil and groundwater. The final design and installation schedule of the vapor collection system will be submitted in the first 6 month VRP Status Report for the Site.

7.2 Institutional Controls

Institutional controls will be implemented through the use of Environmental Covenants executed in conformance with the Georgia Uniform Environmental Covenants Act (OCGA § 44-16-1) as follows:

- To mitigate the potential vapor intrusion exposure pathway each of the impacted parcels (18-343-13-002, 18-343-13-005, 18-343-13-001, and 18-333-02-023) will require that any enclosed structures built on the properties will install a vapor barrier during construction. This will be required until the groundwater plume COI reach HSRA residential RRS.
- To mitigate the potential groundwater exposure pathway each of the impacted parcels (18-343-13-002, 18-343-13-005, 18-343-13-001, and 18-333-02-023) will require a restriction on groundwater use of any kind, unless COI are treated to below HSRA residential RRS.
- To mitigate the potential subsurface worker exposure pathway on the Trust property, the Environmental Covenant for this parcel (18-343-13-002) will require that the EPD be notified prior to any subsurface work to assure that the following occurs:

- Appropriate health and safety precautions are taken by workers if work is to be conducted in the area of impacted soil, or if work will be conducted at depths where impacted groundwater may be encountered; and
- Appropriate impacted soil management is conducted to assure that impacted soil is excavated by OSHA HAZWOPER (1910.120) trained personnel, appropriately characterized for disposal at an approved disposal facility, impacted soil is not spread to unimpacted areas, and appropriate actions are taken to prevent public exposure to impacted soil.
- Appropriate impacted groundwater management is conducted to assure that impacted groundwater is managed by trained personnel, appropriately treated where necessary for disposal/discharge with appropriate permits in place, and appropriate actions are taken to prevent public exposure to impacted groundwater.

- To mitigate the subsurface worker exposure pathway relative to impacted groundwater on parcels other than the Trust Property, each of the impacted parcels (18-343-13-005, 18-343-13-001, and 18-333-02-023) Environmental Covenants will require that the EPD be notified prior to any subsurface work to assure that the following occurs:
  - Appropriate health and safety precautions are taken by workers if work is to be conducted at depths where impacted groundwater may be encountered; and
  - Appropriate impacted groundwater management is conducted to assure that impacted groundwater is managed by trained personnel, appropriately treated where necessary for disposal/discharge with appropriate permits in place, and appropriate actions are taken to prevent public exposure to impacted groundwater.

7.3 Point of Compliance Monitoring and Natural Attenuation

A point of exposure monitoring plan of 5 years is proposed to verify existing data collected to date at the point of exposure, and to field verify mixing calculations that indicate impacted groundwater currently discharging into Nancy Creek will not become present at levels of concern, resulting in a completed exposure pathway for human health or flora/fauna.

The proposed point of exposure for monitoring of the Site under the VRP is Nancy Creek where the groundwater plume intersects the creek as shown on Figure 7. Surface water samples will be collected for laboratory analysis of the COI semi-annually at one upstream location, two locations along the intersection of the groundwater plume and the creek, and at one location downstream of this intersection. Access agreements will be maintained for the properties required for the point of exposure monitoring plan.

Groundwater samples will also be collected for laboratory analysis of the COI during the semi-annual events from select monitoring wells along the creek and in and around the currently established boundaries of the groundwater plume. This data will be used to determine the natural attenuation of the plume and to be used for exposure evaluation, as necessary, during the 5 year monitoring period.

A point of exposure monitoring plan that establishes the surface water sampling locations, monitoring wells to be sampled, and reporting format will be presented in the first 6 month VRP Status Update for the Site.

Section 8
Items for Completing VRP Compliance Status Report

Below is a list of tasks or actions that remain to be completed or implemented under the VRP for this Site for the completion of a VRP Compliance Status Report. Each of these items will be completed or implemented per the schedule presented in Section 9.

Vertical Delineation

The COI plume in groundwater has been horizontally delineated. A deep Type III double-cased monitoring well will be installed in the vicinity of FMW-4, shown on Figure 5, to delineate the vertical extent of COI in groundwater at the Site. This will be conducted within six months and the results included in the first 6 month VRP Status Update for the Site.

Execution of Environmental Covenants (Institutional Controls)

Draft Environmental Covenants for tax parcels 18-343-13-002, 18-343-13-005, 18-343-13-001, and 18-333-02-023 are present in Appendix F for EPD review and approval. Within 6 months of EPD approval of these covenants, they will be executed and included in the next 6 month VRP Status Update for the Site.

Vapor Intrusion Mitigation (Engineering Control)

A vapor collection system will be installed beneath the existing building on the Trust property (parcel 18-343-13-002) to mitigate the vapor intrusion pathway that has been assumed to be complete as a result of the presence of impacted soil and groundwater. The final design and installation schedule of the vapor collection system will be submitted in the first 6 month VRP Status Report for the Site.

Point of Compliance Monitoring Plan

A point of exposure monitoring plan and implementation schedule that establishes the surface water sampling locations, monitoring wells to be sampled, and reporting format as described in Section 7.3 will be presented in the first 6 month VRP Status Update for the Site.

Voluntary Remediation Plan Cost Estimate

A Voluntary Remediation Plan Cost Estimate and date for submitting a financial assurance instrument in the amount of the estimate will be submitted in the first 6 month VRP Status Update for the Site.

Upon completion and implementation of the above tasks/items, as appropriate, a VRP Compliance Status Report will be submitted to the EPD for approval, which is anticipated to result in the removal of the Site from the HSI. The estimated date for submittal of the VRP Compliance Status Report is presented in Section 9.

Section 9
Implementation Schedule

The schedule for implementation of the Fashion Care/Executive Care Site VRPA is presented on Figure 9. The current estimated duration for the implementation of the VRPA through submittal of a VRP Compliance Status Report is 18 months. VRP Status Update reports will be submitted to the EPD every 6 months during this implementation period until the VRP Compliance Status Report is submitted.

Section 10
Tables

Table 1
Constituents of Interest
Fashion Care/Executive Care HSRA Site - HSI #10786
2211 Savoy Drive, Chamblee, Georgia

Drycleaner Related Constituents
Tetrachloroethene (PCE)
cis-1, 2-Dichloroethene
trans-1, 2-Dichloroethene
1, 1-Dichloroethene (1,1-DCE)
Trichloroethene (TCE)
Vinyl Chloride (VC)

NON-COI IDENTIFIED

Petroleum Related Constituents
1, 1-Dichloroethane
1,2-Dibromoethane (EDB)
2-Butanone (MEK)
2-Hexanone
4-Methyl-2-pentanone (MIBK)
Benzene
Toluene
Ethylbenzene
Total Xylenes
Cyclohexane
Isopropylbenzene
Methylcyclohexane
MTBE
Styrene
Fumigant-Insecticide
1,2 Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Chlorobenzene
Laboratory Artifact and/or Naturally Ocurring
Acetone

Table 2

Soil Analytical Data

Fashion Care/Executive Care HSRA Site - HSI # 10786

2211 Savoy Drive, Chamblee, Georgia

			Sample Event						Fashion Care Data									
	Location	CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		HSRA Type 1 RRS	UST Soil TL*	B-5	B-6	B-7	B-7	B-8	B-9	B-10	B-10	B-10	B-11
	Depth (feet bgs)								2	2	2	10	5	5	2	10	15	2
Constituent	Date Sampled		0-2'	>2'	0-2'	>2'			04/17/07	04/17/07	04/17/07	08/18/06	08/18/06	08/18/06	04/18/07	08/18/06	08/18/06	04/18/07
Volatile Organic Compounds (VOCs) - mg/kg																		
1, 1-Dichloroethane		75-34-3	400	400	NC	NC	44.2	-	<0.0029	<0.0032	<0.0032	<0.003	<0.0034	<0.0038	<0.0033	<0.0031	<0.003	<0.0025
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	0.7	-	<0.0029	<0.0032	<0.0032	<0.003	<0.0034	<0.0038	<0.0033	<0.0031	<0.003	<0.0025
Acetone		67-64-1	400	400	94.6	94.6	400	-	0.170	0.25	0.25	<0.06	<0.068	<0.075	<0.066	<0.062	<0.061	<0.049
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	7	-	<0.0029	<0.0032	<0.0032	<0.003	0.0087	0.08	<0.0033	<0.0031	0.015	0.020
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	0.5	-	<0.0029	<0.0032	<0.0032	<0.003	<0.0034	<0.0038	<0.0033	<0.0031	<0.003	<0.0025
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	10	-	<0.0029	<0.0032	<0.0032	<0.003	<0.0034	<0.0038	<0.0033	<0.0031	<0.003	0.006
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	0.5	-	<0.0029	<0.0032	<0.0032	<0.003	<0.0034	<0.0038	<0.0033	<0.0031	<0.003	<0.0025
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	0.2	-	<0.0058	<0.0065	<0.0063	<0.006	0.017	<0.0075	<0.0066	<0.0062	<0.0061	<0.0049
Benzene		71-43-2	PRC	PRC	PRC	PRC	PRC	0.02	<0.0029	<0.0032	<0.0032	**0.072**	0.014	**0.120**	<0.0033	<0.0031	<0.003	**0.029**
Toluene		108-88-3	PRC	PRC	PRC	PRC	PRC	135	<0.0029	<0.0032	<0.0032	0.004	<0.0034	0.0073	<0.0033	<0.0031	<0.003	<0.0025
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC	PRC	28	<0.0029	<0.0032	<0.0032	0.160	<0.0034	0.0081	<0.0033	<0.0031	<0.003	<0.0025
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC	PRC	700	<0.0058	<0.0065	<0.0063	0.012	<0.0068	0.0211	<0.0066	<0.0062	<0.0061	<0.0049
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC	PRC	-	<0.0029	<0.0032	<0.0032	0.034	0.0068	0.047	<0.0033	<0.0031	<0.003	0.032
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC	PRC	-	<0.0029	<0.0032	<0.0032	0.027	<0.0034	0.017	<0.0033	<0.0031	<0.003	<0.0025
MTBE		1634-04-4	PRC	PRC	PRC	PRC	PRC	-	<0.0029	<0.0032	<0.0032	<0.003	0.033	<0.0038	<0.0033	<0.0031	<0.003	<0.0025

			Sample Event						Fashion Care Data											
	Location	CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		HSRA Type 1 RRS	UST Soil TL*	B-12	B-12	B-12	B-15	B-15	B-15	B-16	B-16	B-16	B-17	B-17	B-17
	Depth (feet bgs)								2	10	15	2	5	7	2	5	7	2	4	6
Constituent	Date Sampled		0-2'	>2'	0-2'	>2'			04/18/07	08/18/06	08/18/06	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07
Volatile Organic Compounds (VOCs) - mg/kg																				
1, 1-Dichloroethane		75-34-3	400	400	NC	NC	44.2	-	<0.0032	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	0.7	-	<0.0032	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
Acetone		67-64-1	400	400	94.6	94.6	400	-	<0.064	<0.083	<0.068	<0.078	<0.073	<0.064	<0.059	<0.061	<0.078	<0.066	<0.061	<0.072
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	7	-	0.0045	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	0.5	-	<0.0032	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	10	-	<0.0032	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	0.5	-	<0.0032	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	0.2	-	<0.0064	<0.0083	<0.0068	<0.0078	<0.0073	<0.0064	<0.0059	<0.0061	<0.0078	<0.0066	<0.0061	<0.0072
Benzene		71-43-2	PRC	PRC	PRC	PRC	PRC	0.02	**0.028**	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	**0.053**	**0.031**	**0.095**	<0.0033	<0.003	<0.0036
Toluene		108-88-3	PRC	PRC	PRC	PRC	PRC	135	0.0048	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC	PRC	28	<0.0032	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	0.0035	0.013	<0.0033	<0.003	<0.0036
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC	PRC	700	0.0118	<0.0083	<0.0068	<0.0078	<0.0073	<0.0064	<0.0059	<0.0061	0.022	<0.0066	<0.0061	<0.0072
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC	PRC	-	0.036	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	0.034	0.016	0.040	<0.0033	<0.003	<0.0036
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC	PRC	-	<0.0032	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	0.0077	<0.0033	<0.003	<0.0036
MTBE		1634-04-4	PRC	PRC	PRC	PRC	PRC	-	<0.0032	<0.0042	0.066	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036

			Sample Event						Fashion Care Data													
	Location	CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		HSRA Type 1 RRS	UST Soil TL*	B-18	B-18	B-18	B-20	B-20	B-20	B-21	B-21	B-21	B-22	B-22	B-22	B-23	B-23
	Depth (feet bgs)								2	5	10	2	5	7	2	5	7	2	5	10	2	5
Constituent	Date Sampled		0-2'	>2'	0-2'	>2'			04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	4/17/07	4/17/07	4/17/07	04/18/07	04/18/07
Volatile Organic Compounds (VOCs) - mg/kg																						
1, 1-Dichloroethane		75-34-3	400	400	NC	NC	44.2	-	<0.0024	<0.0034	<0.0036	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	<0.0033	<0.0034	<0.0027	<0.0034	<0.0034	<0.0042
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	0.7	-	<0.0024	<0.0034	<0.0036	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	<0.0033	<0.0034	<0.0027	<0.0034	<0.0034	<0.0042
Acetone		67-64-1	400	400	94.6	94.6	400	-	<0.0024	<0.068	<0.073	<0.062	<0.065	<0.066	<0.063	<0.077	<0.066	<0.067	<0.054	<0.068	<0.071	<0.085
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	7	-	<0.0024	<0.0034	<0.0036	0.063	1.4	1.0	0.027	0.0092	0.043	0.120	<0.0027	<0.0034	0.340	0.310
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	0.5	-	<0.0024	<0.0034	<0.0036	0.0091	<0.0033	<0.0033	0.0049	<0.0038	0.190	0.033	<0.0027	<0.0034	0.021	<0.0042
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	10	-	<0.0024	<0.0034	<0.0036	<0.0031	0.016	0.021	<0.0032	<0.0038	<0.0033	<0.0034	<0.0027	<0.0034	<0.0034	<0.0042
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	0.5	-	<0.0024	<0.0034	<0.0036	0.0052	<0.0033	<0.0033	<0.0032	<0.0038	0.0047	0.055	<0.0027	<0.0034	0.011	0.0052
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	0.2	-	<0.0048	<0.0068	<0.0073	<0.0062	0.053	0.029	<0.0063	<0.0077	<0.0066	<0.0067	<0.0054	<0.0068	0.011	0.050
Benzene		71-43-2	PRC	PRC	PRC	PRC	PRC	0.02	**0.055**	**0.370**	**0.490**	<0.0031	**0.022**	0.020	0.0034	<0.0038	0.013	<0.0034	0.010	**0.230**	<0.0034	<0.0042
Toluene		108-88-3	PRC	PRC	PRC	PRC	PRC	135	0.011	0.290	0.700	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	0.0044	<0.0034	<0.0027	0.0076	<0.0034	<0.0042
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC	PRC	28	<0.0024	0.065	2.6	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	<0.0033	<0.0034	<0.0027	0.610	<0.0034	<0.0042
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC	PRC	700	<0.0048	0.264	13.9	<0.0062	<0.0065	<0.0066	<0.0063	<0.0077	0.0206	<0.0067	<0.0054	0.942	<0.0071	<0.0085
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC	PRC	-	<0.0024	<0.0034	0.790	<0.0031	0.680	0.077	<0.0032	<0.0038	0.015	<0.0034	0.0088	1.3	0.005	0.0058
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC	PRC	-	<0.0024	0.004	0.320	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	<0.0033	<0.0034	<0.0027	0.084	<0.0034	<0.0042
MTBE		1634-04-4	PRC	PRC	PRC	PRC	PRC	-	<0.0024	<0.0034	<0.0036	<0.0031	<0.0033	<0.0033	0.030	0.017	0.013	<0.0034	<0.0027	<0.0034	<0.0034	<0.0042

Table 2

Soil Analytical Data

Fashion Care/Executive Care HSRA Site - HSI # 10786

2211 Savoy Drive, Chamblee, Georgia

Sample Event									Fashion Care Data									
	Location	CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		HSRA Type 1	UST Soil	B-25	B-25	B-25	B-26	B-26	B-26	FMW-4	FMW-4	FMW-4	SB-27
	Depth (feet bgs)								2	5	10	2	5	10	0-2	4-8	11-13	0-2
Constituent	Date Sampled		0-2'	>2'	0-2'	>2'	RRS	TL*	4/17/07	4/17/07	4/17/07	4/17/07	4/17/07	4/17/07	9/4/08	9/4/08	9/4/08	9/4/08
Volatile Organic Compounds (VOCs) - mg/kg																		
1, 1-Dichloroethane		75-34-3	400	400	NC	NC	44.2	-	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	<0.0027	<0.0035	<0.15	<0.0026
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	0.7	-	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	<0.0027	<0.0035	<0.15	<0.0026
Acetone		67-64-1	400	400	94.6	94.6	400	-	<0.078	<0.063	<0.072	0.140	<0.054	<0.061	0.039	<0.035	<1.5	0.17
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	7	-	0.040	0.022	0.087	<0.0031	0.110	0.035	0.041	0.12	1.7	0.068J
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	0.5	-	<0.0039	<0.0031	<0.0036	0.021	<0.0027	<0.0031	0.0087	<0.0035	0.05J	**18.0**
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	10	-	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	<0.0027	<0.0035	<0.15	<0.0026
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	0.5	-	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	0.0075	<0.0035	<0.15	0.12J
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	0.2	-	<0.0078	<0.0063	<0.0072	<0.0062	<0.0054	<0.0061	0.008	0.016	0.096J	<0.0026
Benzene		71-43-2	PRC	PRC	PRC	PRC	PRC	0.02	0.009	0.018	**0.080**	<0.0031	0.012	0.0032	0.0016	0.0083	**0.75**	<0.00052
Toluene		108-88-3	PRC	PRC	PRC	PRC	PRC	135	<0.0039	<0.0031	0.0042	<0.0031	<0.0027	<0.0031	<0.00053	0.0056	1.5	0.0026
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC	PRC	28	<0.0039	0.0056	0.016	<0.0031	0.007	<0.0031	<0.00053	0.001	0.33	<0.00052
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC	PRC	700	<0.0078	<0.0063	<0.0072	<0.0062	<0.0054	<0.0061	<0.00053	0.0039	1.15	<0.00052
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC	PRC	-	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	0.036	<0.0027	<0.0035	<0.15	<0.0026
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC	PRC	-	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	<0.0027	<0.0035	<0.15	<0.0026
MTBE		1634-04-4	PRC	PRC	PRC	PRC	PRC	-	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	NA	NA	NA	NA

Sample Event									Fashion Care Data - Soil Confirmation Samples																
	Location	CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		HSRA Type 1	UST Soil	SB-28	SB-28	SB-28	SB-29	SB-29	SB-29	SB-30	SB-30	SB-30	SB-31	SB-31	SB-31	SB-32	SB-32	SB-32	SB-33	SB-33
	Depth (feet bgs)								0-2	4-6	8-10	0-2	4-6	8-10	0-2	4.5-6.5	8.5-10.5	0-2	4-6	7.5-9.5	0-2	3.5-5.5	6-8	0-2	4-6
Constituent	Date Sampled		0-2'	>2'	0-2'	>2'	RRS	TL*	05/08/09	05/08/09	05/08/09	5/8/09	5/8/09	05/08/09	05/08/09	5/8/09	5/8/09	05/08/09	05/08/09	5/8/09	5/8/09	5/8/09	5/8/09	5/8/09	5/8/09
Volatile Organic Compounds (VOCs) - mg/kg																									
1, 1-Dichloroethane		75-34-3	400	400	NC	NC	44.2	-	<0.19	<0.19	<0.17	<0.005	<0.005	<0.005	<0.2	<0.18	<0.18	<0.22	<0.18	<0.14	<0.15	<0.16	<0.19	<0.16	<0.14
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	0.7	-	<0.19	<0.19	<0.17	<0.005	<0.005	<0.005	<0.2	<0.18	<0.18	<0.22	<0.18	<0.14	<0.15	<0.16	<0.19	<0.16	<0.14
Acetone		67-64-1	400	400	94.6	94.6	400	-	<1.9	<1.9	<1.7	0.520	0.0690	0.0450	<2	<1.8	<1.8	<2.2	<1.8	<1.4	<1.5	<1.6	<1.9	<1.6	<1.4
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	7	-	0.50	**73.0**	**10.0**	0.0140	0.0910	0.290	0.130	2.80	6.20	0.20	1.60	0.190	<0.15	0.270	2.50	0.130	0.590
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	0.5	-	**0.980**	**52.0**	**37.0**	0.0031	0.0220	0.0023	**2.30**	**6.70**	**1.50**	**3.40**	**4.50**	0.30	**15.0**	**1400.0**	**3800.0**	**2300.0**	**100.0**
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	10	-	<0.19	0.830	0.0640	<0.005	0.0016	0.0067	<0.2	<0.18	0.0410	<0.22	<0.18	<0.14	<0.15	<0.16	0.110	<0.16	<0.14
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	0.5	-	0.20	**15.0**	**4.0**	<0.005	0.0021	<0.005	0.160	**3.40**	**2.30**	0.270	**1.70**	0.350	<0.15	**3.40**	**30.0**	**4.40**	**1.70**
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	0.2	-	<0.19	<0.19	<0.17	<0.005	<0.005	0.0670	<0.2	<0.18	<0.2	<0.22	<0.18	<0.14	<0.15	<0.16	<0.19	<0.16	<0.14
Benzene		71-43-2	PRC	PRC	PRC	PRC	PRC	0.02	<0.19	<0.19	<0.17	0.0180	0.0046	**0.0570**	<0.2	<0.18	**0.07**	<0.22	<0.18	<0.14	<0.15	<0.16	**0.034**	<0.16	<0.14
Toluene		108-88-3	PRC	PRC	PRC	PRC	PRC	135	<0.19	<0.19	<0.17	0.0049	0.0081	0.0370	<0.2	<0.18	0.21	<0.22	<0.18	<0.14	<0.15	0.026	0.210	<0.16	<0.14
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC	PRC	28	<0.19	<0.19	<0.17	0.0011	0.0019	0.0190	<0.2	<0.18	0.051	<0.22	<0.18	<0.14	<0.15	<0.16	0.30	<0.16	<0.14
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC	PRC	700	<0.390	<0.390	0.0460	<0.01	0.00073	0.070	<0.4	<0.36	0.147	<0.43	<0.36	<0.27	<0.31	<0.31	0.710	<0.32	<0.28
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC	PRC	-	<0.19	<0.19	<0.17	<0.005	0.0077	0.0210	<0.2	<0.18	<0.18	<0.22	<0.18	<0.14	<0.15	<0.16	<0.19	<0.16	<0.14
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC	PRC	-	<0.19	<0.19	<0.17	<0.005	<0.005	0.0011	<0.2	<0.18	<0.18	<0.22	<0.18	<0.14	<0.15	<0.16	<0.19	<0.16	<0.14
MTBE		1634-04-4	PRC	PRC	PRC	PRC	PRC	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Sample Event									Fashion Care Data - Soil Confirmation Samples								
	Location	CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		HSRA Type 1	UST Soil	SB-34	SB-34	SB-34	SB-35	SB-35	SB-35	SB-36	SB-36	SB-36
	Depth (feet bgs)								0-2	2.5-4.5	5-7	0-2	2.5-4.5	5-7	0-2	3-5	6-8
Constituent	Date Sampled		0-2'	>2'	0-2'	>2'	RRS	TL*	05/18/09	05/18/09	05/18/09	5/18/09	5/18/09	5/18/09	5/18/09	5/18/09	5/18/09
Volatile Organic Compounds (VOCs) - mg/kg																	
1, 1-Dichloroethane		75-34-3	400	400	NC	NC	44.2	-	<0.058	<0.048	<0.046	<0.051	<0.046	<0.051	<0.048	<0.049	<0.047
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	0.7	-	<0.058	<0.048	<0.046	<0.051	<0.046	<0.051	<0.048	<0.049	<0.047
1,2 Dichlorobenzene		95-50-1	60	60	45.8	45.8	60	-	<0.058	<0.048	<0.046	<0.051	<0.046	<0.051	<0.048	<0.049	<0.047
1,3-Dichlorobenzene		541-73-1	2.22	2.22	NC	NC	60	-	<0.058	<0.048	<0.046	<0.051	<0.046	<0.051	<0.048	<0.049	<0.047
1,4-Dichlorobenzene		106-46-7	6.84	6.84	NC	NC	7.5	-	<0.058	<0.048	<0.046	<0.051	<0.046	<0.051	<0.048	<0.049	<0.047
Acetone		67-64-1	400	400	94.6	94.6	400	-	<0.58	<0.48	<0.46	<0.51	<0.46	<0.51	<0.48	<0.49	<0.47
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	7	-	<0.058	<0.048	0.31	<0.051	1.5	0.14	0.26	1.7	0.32
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	0.5	-	0.24	**2.6**	0.39	0.27	**1.0**	0.12	**0.59**	<0.049	0.11
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	10	-	<0.058	<0.048	<0.046	<0.051	<0.046	<0.051	<0.048	<0.049	<0.047
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	0.5	-	<0.058	0.053	0.26	<0.051	0.15	<0.051	0.11	<0.049	<0.047
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	0.2	-	<0.058	<0.048	<0.046	<0.051	<0.46	<0.051	<0.048	<0.049	<0.047
Benzene		71-43-2	PRC	PRC	PRC	PRC	PRC	0.02	<0.058	<0.048	<0.046	<0.051	**0.053**	<0.051	<0.048	**0.061**	<0.047
Toluene		108-88-3	PRC	PRC	PRC	PRC	PRC	135	<0.058	<0.048	<0.046	<0.051	<0.046	<0.051	<0.048	0.035	0.036
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC	PRC	28	<0.058	<0.048	<0.046	<0.051	<0.046	<0.051	<0.048	<0.049	0.027
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC	PRC	700	<0.12	<0.097	<0.092	<0.051	<0.046	<0.1	<0.095	<0.098	<0.093
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC	PRC	-	<0.058	<0.048	<0.046	<0.1	<0.092	<0.051	<0.048	<0.049	<0.047
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC	PRC	-	<0.058	<0.048	<0.046	<0.051	<0.046	<0.051	<0.048	<0.049	<0.047
MTBE		1634-04-4	PRC	PRC	PRC	PRC	PRC	-	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

	Exceeds HSRA Type 1 RRS
BOLD	Exceeds HSRA Type 3 RRS
BOLD	Exceeds HSRA Type 3 and 4 RRS
BOLD	Exceeds UST Program Soil Threshold Values

* The applicable UST Threshold Level is Table B, Lower Groundwater Pollution Susceptibility Area, ≤ 500 feet to a Surface Water Body.

NC Type 4 RRS not calculated

PRC Petroleum relalated constituents

** RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved

Table 3

Groundwater Anaytical Results - 2008 through 2010

Fashion Care/Executive Care HSRA Site - HSI # 10786

2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	UST Program ISWQS (mg/L)	FMW-1	FMW-1[3]	FMW-2	FMW-2[3]	FMW-3	FMW-3[3]	FMW-4	FMW-4[3]	FWM-5	FWM-5	FMW-6	DUP30108 FMW-6	FMW-6	FMW-7	FMW-7
	Date Sampled				9/8/08	3/8/10	9/8/08	3/8/10	9/8/08	3/9/10	9/8/08	3/8/10	9/5/08	3/11/10	9/5/08	9/5/08	3/11/10	12/3/08	3/9/10
Volatile Organic Compounds																			
1,1-Dichloroethene		75-35-4	0.007	7.100	<0.001	<0.005	<0.001	<0.5	<0.001	<0.005	**0.061**	**0.038**	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	<0.005
1,2-Dichlorobenzene		95-50-1	NA(1)	1.300	<0.001	<0.005	<0.001	<0.5	<0.001	<0.005	0.019	0.01	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	<0.005
2-Butanone (MEK)		78-93-3	2		<0.002	<0.05	0.19	<5.0	<0.002	<0.05	<0.002	<0.05	<0.002	<0.05	<0.002	<0.002	<0.05	<0.002	<0.05
2-Hexanone		591-78-6	NR		<0.002	<0.01	0.065	<1.0	<0.002	<0.01	0.031	0.037	<0.002	<0.01	<0.002	<0.002	<0.01	<0.002	<0.01
Acetone		67-64-1	4		<0.002	<0.05	<0.002	<0.5	<0.002	<0.05	<0.002	0.094	<0.002	<0.05	<0.002	<0.002	<0.05	<0.002	<0.05
Chlorobenzene		108-90-7	NA(1)		<0.001	<0.005	<0.001	<0.5	<0.001	<0.005	0.0036	0.002J	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	<0.005
cis-1, 2-Dichloroethene		156-59-2	0.53		0.0027	0.024	0.11	0.16J	0.0048	<0.005	**52.0**	**63.0**	0.1	0.039	0.18	0.18	0.18	<0.001	<0.005
Methylcyclohexane		108-87-2	NR		0.018	0.068	0.043	0.16J	0.018	0.051	<0.001	0.039	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	<0.005
Tetrachloroethene (PCE)		127-18-4	0.005**	0.0033	**0.0086**	**0.006**	**0.06**	<0.5	**0.016**	<0.005	**42.0**	**17.0**	**4.7**	**1.2**	**1.1**	**2.2**	**1.4**	<0.001	<0.005
trans-1, 2-Dichloroethene		156-60-5	0.1	10	<0.001	<0.005	0.0057	<0.5	<0.001	<0.005	**0.90**	**1.3**	<0.001	<0.005	0.0036	0.0039	<0.005	<0.001	<0.005
Trichloroethene (TCE)		79-01-6	0.005**	0.03	0.0028	0.0034J	**0.027**	<0.5	**0.0057**	<0.005	**30.0**	**22.0**	**0.1**	**0.029**	**0.056**	**0.05**	**0.052**	<0.001	<0.005
Vinyl Chloride		75-01-4	0.002**	0.0024	<0.001	<0.002	<0.001	<0.2	<0.001	<0.002	**3.7**	**1.8**	<0.001	**0.0028**	<0.001	<0.001	<0.002	<0.001	<0.002
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																			
1,2-Dibromoethane (EDB)		106-93-4	PRC	NA(2)	<0.001	<0.005	0.013	<0.5	<0.001	<0.005	<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	<0.005
1, 2-Dichloroethane		107-06-2	PRC	0.099	<0.001	<0.005	0.4	<0.5	<0.001	<0.005	<0.001	<0.005	<0.001	<0.005	<0.001	0.0028	<0.005	<0.001	<0.005
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	NA(2)	<0.002	<0.01	<0.002	<1.0	<0.002	<0.01	<0.002	0.076	<0.002	<0.01	<0.002	<0.002	<0.01	<0.002	<0.01
Benzene		71-43-2	PRC	0.071	0.83	1.2	13.0	14.0	0.16	0.19	2.0	3.7	0.0018	<0.005	0.0018	0.0016	<0.005	<0.001	<0.005
Cyclohexane		110-82-7	PRC	NA(2)	0.045	0.1	0.14	<0.5	0.035	0.053	<0.001	0.069	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	<0.005
Ethylbenzene		100-41-4	PRC	29.0	0.33	0.6	2.6	3.0	0.19	0.0075	0.465	0.89	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	<0.005
Isopropylbenzene		98-82-8	PRC	NA(2)	0.013	0.027	0.082	0.095J	0.017	0.034	0.019	0.038	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	NA(2)	2.4	3.2	0.93	1.1	<0.002	0.0012J	0.945	1.3	0.022	<0.005	0.26	0.26	0.064	<0.002	<0.005
Styrene		100-42-5	PRC	NA(2)	<0.001	<0.005	<0.001	<0.5	<0.001	<0.005	<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	<0.005
Toluene		108-88-3	PRC	200	0.054	3.4	6.0	15.0	0.0075	0.0065	4.1	7.1	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	<0.005
Xylenes, Total		1330-20-7	PRC	NA(2)	0.445	2.34	14.7	16.9	0.8884	0.019	1.6	3.7	<0.002	<0.01	<0.002	<0.002	<0.01	<0.002	<0.01

NOTES:

BOLD Laboratory detection is above applicable regulatory standard.

ISWQS Georgia In-Stream Water Quality Standards (Rule 391-3-6-.03 Water Use Classifications and Water Quality Standards)

PRC Pertroleum related constituent

NA(1) Not Applicable - fumigant-insecticide properly applied

NA(2) Not Applicable - Petroleum related constituent which has no In-Stream Water Quality Standard

NR Not regulated

* Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Type 1 RRS has a higher value.

** RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS in Condition 8.

FPP Free-phase petroleum present in the monitoring well

Table 3
Groundwater Anaytical Results - 2008 through 2010
Fashion Care/Executive Care HSRA Site - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	UST Program ISWQS (mg/L)	FMW-8	FMW-8[3]	FMW-9	FMW-9	FMW-10	DUP-1 FMW-10	FMW-10	FMW-11	FMW-11	FMW-12[3]	FMW-13[3]	FMW-14	FMW-15	FMW-16
	Date Sampled				12/2/08	3/8/10	12/3/08	3/11/10	12/2/08	12/2/08	3/11/10	12/2/08	3/11/10	3/17/10	3/17/10	5/27/10	6/15/10	6/15/10
Volatile Organic Compounds																		
1,1-Dichloroethene		75-35-4	0.007	7.100	<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichlorobenzene		95-50-1	NA(1)	1.300	<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone (MEK)		78-93-3	2		<0.002	<0.05	<0.002	<0.05	<0.002	<0.002	<0.05	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2-Hexanone		591-78-6	NR		0.0317	0.015	<0.002	<0.01	<0.002	<0.002	<0.01	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acetone		67-64-1	4		<0.002	<0.05	<0.002	<0.05	<0.002	<0.002	<0.05	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorobenzene		108-90-7	NA(1)		<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1, 2-Dichloroethene		156-59-2	0.53		0.00236	0.0022J	0.0534	0.29	0.0445	0.0443	0.11	0.00288	0.01	0.0014J	0.0011J	**0.0074**	<0.005	<0.005
Methylcyclohexane		108-87-2	NR		0.0599	0.14	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Tetrachloroethene (PCE)		127-18-4	0.005**	0.0033	<0.001	<0.005	**0.922**	**1.6**	<0.001	<0.001	<0.005	**0.0394**	**0.044**	0.0046J	**0.018**	**0.01**	<0.005	<0.005
trans-1, 2-Dichloroethene		156-60-5	0.1	10	<0.001	<0.005	0.00086	0.0062	<0.001	<0.001	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene (TCE)		79-01-6	0.005**	0.03	<0.001	0.001J	**0.0262**	**0.072**	<0.001	<0.001	**0.028**	**0.00573**	**0.011**	<0.005	0.0026J	**0.02**	<0.005	<0.005
Vinyl Chloride		75-01-4	0.002**	0.0024	<0.001	<0.002	<0.001	<0.002	**0.0106**	**0.0106**	**0.011**	<0.001	<0.002	<0.002	<0.002	<0.002	**0.0061**	<0.002
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																		
1,2-Dibromoethane (EDB)		106-93-4	PRC	NA(2)	<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1, 2-Dichloroethane		107-06-2	PRC	0.099	<0.001	0.0013J	0.00215	<0.005	<0.001	<0.001	<0.005	0.00152	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	NA(2)	0.0102	<0.01	<0.002	<0.01	<0.002	<0.002	<0.01	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	PRC	0.071	3.07	2.4	0.00065	<0.005	0.00097	0.00079	<0.005	0.00134	<0.005	<0.005	<0.005	<0.001	<0.001	<0.01
Cyclohexane		110-82-7	PRC	NA(2)	0.18	0.37	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene		100-41-4	PRC	29.0	2.72	2.2	0.00052	<0.005	0.00073	<0.001	<0.005	0.00321	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Isopropylbenzene		98-82-8	PRC	NA(2)	0.0823	0.086	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	NA(2)	<0.002	<0.005	0.615	0.19	0.0235	0.022	0.017	0.575	0.14	0.047	<0.005	**0.0033**	**0.0021**	<0.001
Styrene		100-42-5	PRC	NA(2)	0.0213	<0.005	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene		108-88-3	PRC	200	7.71	5.5	0.00196	<0.005	0.0014	0.00077	<0.005	0.00559	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Xylenes, Total		1330-20-7	PRC	NA(2)	14.97	12.1	0.00285	<0.01	0.00412	0.00204	<0.01	0.021	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001

NOTES:

BOLD Laboratory detection is above applicable regulatory standard.
ISWQS Georgia In-Stream Water Quality Standards (Rule 391-3-6-.03 W
PRC Pertroleum related constituent
NA(1) Not Applicable - fumigant-insecticide properly applied
NA(2) Not Applicable - Petroleum related constituent which has no In-
NR Not regulated
* Type 4 RRS is defaulted to the equivalent of the Type 1 RRS beca
** RRS is taken from EPD CAP approval letter dated December 28,
FPP Free-phase petroleum present in the monitoring well

Table 3
Groundwater Anaytical Results - 2008 through 2010
Fashion Care/Executive Care HSRA Site - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	UST Program ISWQS (mg/L)	SB-24(3)	SB-25(3)	SB-26	SB-26(3)	Stantec UST Data MW-1	Stantec UST Data MW-2R	MW-2R	MW-2R	Stantec UST Data MW-3	Stantec UST Data MW-4R	Stantec UST Data MW-8	MW-8	Stantec UST Data MW-9R	MW-9R	MW-9R	Stantec UST Data RW-13 (MW-10R)
	Date Sampled				3/16/10	3/16/10	9/10/08	3/16/10	6/7/08	6/7/08	9/9/08	3/8/10	6/7/08	6/7/08	6/7/08	3/9/10	6/7/08	9/9/08	3/9/10	6/7/08
Volatile Organic Compounds																				
1,1-Dichloroethene		75-35-4	0.007	7.100	<0.1	<0.1	0.006	<0.25	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005
1,2-Dichlorobenzene		95-50-1	NA(1)	1.300	<0.1	<0.1	<0.001	<0.25	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005
2-Butanone (MEK)		78-93-3	2		0.81J	<1.0	<0.002	<2.5	FPP	<0.05	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05
2-Hexanone		591-78-6	NR		0.16J	<0.2	<0.002	<0.5	FPP	<0.01	<0.002	<0.01	<0.01	<0.01	<0.01	0.021	<0.01	<0.02	<0.01	<0.01
Acetone		67-64-1	4		2.6	<1.0	<0.002	<2.5	FPP	<0.05	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05
Chlorobenzene		108-90-7	NA(1)		<0.1	<0.1	<0.001	<0.25	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005
cis-1, 2-Dichloroethene		156-59-2	0.53		**2.2**	**0.78**	**4.0**	**9.7**	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	0.110	0.220	**1.7**	<0.005
Methylcyclohexane		108-87-2	NR		0.094J	<0.061J	0.14	0.17J	FPP	<0.005	<0.001	<0.005	0.20	<0.005	0.070	0.092	0.110	0.057	0.14	0.092
Tetrachloroethene (PCE)		127-18-4	0.005**	0.0033	<0.1	<0.1	**4.8**	**9.0**	FPP	<0.005	<0.001	<0.005	<0.005	<0.013	<0.005	<0.005	**0.12**	**0.1**	**1.7**	<0.005
trans-1, 2-Dichloroethene		156-60-5	0.1	10	0.046J	<0.1	0.039	0.057J	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	0.021	<0.005
Trichloroethene (TCE)		79-01-6	0.005**	0.03	**0.02J**	<0.1	**3.4**	**6.7**	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	**0.021**	**0.022**	**0.62**	<0.005
Vinyl Chloride		75-01-4	0.002**	0.0024	**0.035J**	<0.04	**1.0**	**0.81**	FPP	<0.002	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.1**	**0.087**	<0.002
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																				
1,2-Dibromoethane (EDB)		106-93-4	PRC	NA(2)	<0.1	<0.1	<0.001	<0.25	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005
1, 2-Dichloroethane		107-06-2	PRC	0.099	<0.1	<0.1	<0.001	<0.25	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	NA(2)	<0.2	<0.2	<0.002	<0.5	FPP	<0.01	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01
Benzene		71-43-2	PRC	0.071	3.5	1.5	0.53	0.33	FPP	<0.005	<0.001	<0.005	0.068	<0.005	1.8	1.0	1.8	1.6	0.83	14.0
Cyclohexane		110-82-7	PRC	NA(2)	0.12	0.12	0.18	0.17J	FPP	<0.005	<0.001	<0.005	0.13	<0.005	0.085	0.075	0.11	0.14	0.12	0.17
Ethylbenzene		100-41-4	PRC	29.0	0.55	1.4	0.23	0.065J	FPP	<0.005	<0.001	<0.005	0.86	<0.005	0.90	1.1	1.8	2.0	1.5	3.9
Isopropylbenzene		98-82-8	PRC	NA(2)	0.027J	0.044J	0.043	<0.25	FPP	<0.005	<0.001	<0.01	0.095	<0.005	0.071	0.081	0.16	0.19	0.14	0.16
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	NA(2)	8.1	0.62	<0.002	<0.25	FPP	<0.005	<0.002	<0.005	0.038	<0.005	0.022	0.013	0.089	<0.02	0.15	6.2
Styrene		100-42-5	PRC	NA(2)	<0.1	<0.1	<0.001	<0.25	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005
Toluene		108-88-3	PRC	200	4.6	4.7	0.081	0.086J	FPP	<0.005	<0.001	<0.005	0.220	<0.005	3.5	2.3	0.180	0.26	0.15	41.0
Xylenes, Total		1330-20-7	PRC	NA(2)	3.15	6.3	0.1082	0.081J	FPP	<0.005	<0.002	<0.01	4.10	<0.005	6.2	5.6	3.5	4.05	3.06	22.1

NOTES:

BOLD Laboratory detection is above applicable regulatory standard.
ISWQS Georgia In-Stream Water Quality Standards (Rule 391-3-6-.03 W
PRC Pertroleum related constituent
NA(1) Not Applicable - fumigant-insecticide properly applied
NA(2) Not Applicable - Petroleum related constituent which has no In-
NR Not regulated
* Type 4 RRS is defaulted to the equivalent of the Type 1 RRS beca
** RRS is taken from EPD CAP approval letter dated December 28, :
FPP Free-phase petroleum present in the monitoring well

Table 3

Groundwater Anaytical Results - 2008 through 2010

Fashion Care/Executive Care HSRA Site - HSI # 10786

2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	UST Program ISWQS (mg/L)	Stantec UST Data MW-11	MW-11	MW-11[3]	Stantec UST Data MW-12	Stantec UST Data MW-13	MW-13	MW-13	Stantec UST Data MW-14	MW-14	Stantec UST Data MW-15	Stantec UST Data MW-16	Stantec UST Data RW-7 (MW-17)	Stantec UST Data MW-18	Stantec UST Data MW-19	MW-19	Stantec UST Data MW-20
	Date Sampled				6/7/08	9/9/08	3/9/10	6/7/08	6/7/08	9/8/08	3/11/10	6/7/08	9/8/08	6/7/08	6/7/08	6/7/08	6/7/08	6/7/08	5/27/10	6/7/08
Volatile Organic Compounds																				
1,1-Dichloroethene		75-35-4	0.007	7.100	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	0.0027	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005
1,2-Dichlorobenzene		95-50-1	NA(1)	1.300	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	0.0026	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005
2-Butanone (MEK)		78-93-3	2		<0.05	<0.002	<0.05	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	FPP	<0.05	<0.05	<0.05	<0.05
2-Hexanone		591-78-6	NR		<0.01	<0.002	<0.01	<0.01	<0.01	<0.002	<0.01	<0.01	<0.002	<0.01	<0.01	FPP	<0.01	<0.01	<0.01	<0.01
Acetone		67-64-1	4		<0.05	<0.002	<0.05	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	FPP	<0.05	<0.05	<0.05	<0.05
Chlorobenzene		108-90-7	NA(1)		<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005
cis-1, 2-Dichloroethene		156-59-2	0.53		<0.005	<0.001	0.021	<0.005	<0.005	<0.001	<0.005	**2.4**	**2.6**	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005
Methylcyclohexane		108-87-2	NR		<0.005	<0.001	0.0012J	<0.005	<0.005	<0.001	<0.005	0.023	0.019	0.029	<0.005	FPP	<0.005	<0.005	<0.005	<0.005
Tetrachloroethene (PCE)		127-18-4	0.005**	0.0033	<0.005	0.0028	**0.026**	<0.005	<0.005	<0.001	<0.005	**0.22**	**0.26**	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005
trans-1, 2-Dichloroethene		156-60-5	0.1	10	<0.005	<0.001	0.0011J	<0.005	<0.005	<0.001	<0.005	<0.005	0.018	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005
Trichloroethene (TCE)		79-01-6	0.005**	0.03	<0.005	<0.001	**0.016**	<0.005	<0.005	<0.001	<0.005	**0.23**	**0.26**	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005
Vinyl Chloride		75-01-4	0.002**	0.0024	<0.002	<0.001	0.001J	<0.002	<0.002	<0.001	<0.002	**0.34**	**0.83**	<0.002	<0.002	FPP	<0.002	<0.002	<0.002	<0.002
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																				
1,2-Dibromoethane (EDB)		106-93-4	PRC	NA(2)	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005
1, 2-Dichloroethane		107-06-2	PRC	0.099	<0.005	<0.001	<0.005	<0.005	0.024	0.012	<0.005	<0.005	<0.001	<0.005	<0.005	FPP	<0.005	<0.005	<0.001	<0.005
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	NA(2)	<0.01	<0.002	<0.01	<0.01	<0.01	<0.002	<0.01	<0.01	<0.002	<0.01	<0.01	FPP	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	PRC	0.071	<0.005	0.0052	0.047	<0.005	<0.005	<0.001	<0.005	0.14	0.13	1.3	<0.005	FPP	<0.005	<0.005	<0.001	<0.005
Cyclohexane		110-82-7	PRC	NA(2)	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	0.018	0.026	0.034	<0.005	FPP	<0.005	<0.005	<0.005	<0.005
Ethylbenzene		100-41-4	PRC	29.0	<0.005	0.0014	0.017	<0.005	<0.005	<0.001	<0.005	<0.005	0.0014	0.013	<0.005	FPP	<0.005	0.0083	**0.0027**	<0.005
Isopropylbenzene		98-82-8	PRC	NA(2)	<0.005	<0.001	0.001J	<0.005	<0.005	<0.001	<0.01	0.0078	0.01	0.027	<0.005	FPP	<0.005	<0.005	<0.005	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	NA(2)	0.012	0.013	0.0041J	<0.005	0.038	0.19	0.012	0.370	0.13	0.320	<0.005	FPP	0.018	<0.005	**0.0017**	<0.005
Styrene		100-42-5	PRC	NA(2)	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005
Toluene		108-88-3	PRC	200	<0.005	<0.001	0.0058	<0.005	<0.005	<0.001	<0.005	0.0086	0.015	<0.005	<0.005	FPP	<0.005	<0.005	<0.001	<0.005
Xylenes, Total		1330-20-7	PRC	NA(2)	<0.005	<0.002	0.0084J	<0.005	<0.005	<0.002	<0.01	<0.005	0.0059	0.0078	<0.005	FPP	<0.005	<0.005	**0.0036**	<0.005

NOTES:

BOLD Laboratory detection is above applicable regulatory standard.

ISWQS Georgia In-Stream Water Quality Standards (Rule 391-3-6-.03 W

PRC Pertroleum related constituent

NA(1) Not Applicable - fumigant-insecticide properly applied

NA(2) Not Applicable - Petroleum related constituent which has no In-

NR Not regulated

* Type 4 RRS is defaulted to the equivalent of the Type 1 RRS beca

** RRS is taken from EPD CAP approval letter dated December 28,

FPP Free-phase petroleum present in the monitoring well

Table 3
Groundwater Anaytical Results - 2008 through 2010
Fashion Care/Executive Care HSRA Site - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	UST Program ISWQS (mg/L)	Stantec UST Data MW-21	MW-21	Stantec UST Data MW-22	Stantec UST Data MW-23D	MW-23D	MW-23D(3)
	Date Sampled				6/7/08	5/27/10	6/7/08	6/7/08	9/9/08	3/9/10
Volatile Organic Compounds										
1,1-Dichloroethene		75-35-4	0.007	7.100	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005
1,2-Dichlorobenzene		95-50-1	NA(1)	1.300	<0.005	<0.005	<0.005	0.0058	<0.001	0.0021J
2-Butanone (MEK)		78-93-3	2		0.051	<0.05	<0.05	<0.05	<0.002	<0.05
2-Hexanone		591-78-6	NR		<0.01	**0.031**	<0.01	<0.01	<0.002	<0.01
Acetone		67-64-1	4		<0.05	<0.05	<0.05	<0.05	0.033	<0.05
Chlorobenzene		108-90-7	NA(1)		<0.005	<0.005	<0.005	<0.005	<0.001	<0.005
cis-1, 2-Dichloroethene		156-59-2	0.53		<0.005	<0.005	<0.005	0.068	0.0034	0.095
Methylcyclohexane		108-87-2	NR		0.120	**0.039**	0.043	0.0056	<0.001	0.0058
Tetrachloroethene (PCE)		127-18-4	0.005**	0.0033	<0.006	<0.005	<0.005	**26.0**	**1.70**	**18.0**
trans-1, 2-Dichloroethene		156-60-5	0.1	10	<0.005	<0.005	<0.005	<0.005	<0.001	0.0015J
Trichloroethene (TCE)		79-01-6	0.005**	0.03	<0.005	<0.005	<0.005	**0.7**	**0.028**	**0.061**
Vinyl Chloride		75-01-4	0.002**	0.0024	<0.002	<0.002	<0.002	<0.002	<0.001	<0.002
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE										
1,2-Dibromoethane (EDB)		106-93-4	PRC	NA(2)	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005
1, 2-Dichloroethane		107-06-2	PRC	0.099	<0.005	<0.001	<0.005	<0.005	<0.001	0.00093J
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	NA(2)	<0.01	**0.017**	<0.01	<0.01	<0.002	<0.01
Benzene		71-43-2	PRC	0.071	10.0	**1.2**	<0.005	<0.005	<0.001	0.00028J
Cyclohexane		110-82-7	PRC	NA(2)	0.170	**0.03**	0.053	0.005	<0.001	<0.005
Ethylbenzene		100-41-4	PRC	29.0	4.4	**0.5**	0.057	<0.005	<0.001	0.0009J
Isopropylbenzene		98-82-8	PRC	NA(2)	0.160	**0.028**	0.027	<0.005	<0.001	0.00036J
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	NA(2)	9.2	**0.27**	<0.005	0.049	0.0018	0.015
Styrene		100-42-5	PRC	NA(2)	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005
Toluene		108-88-3	PRC	200	6.6	**0.26**	0.021	<0.005	<0.001	<0.005
Xylenes, Total		1330-20-7	PRC	NA(2)	23.8	**1.2**	0.220	0.011	0.0011	0.0041J

NOTES:

BOLD Laboratory detection is above applicable regulatory standard.
ISWQS Georgia In-Stream Water Quality Standards (Rule 391-3-6-.03 W
PRC Pertroleum related constituent
NA(1) Not Applicable - fumigant-insecticide properly applied
NA(2) Not Applicable - Petroleum related constituent which has no In-
NR Not regulated
* Type 4 RRS is defaulted to the equivalent of the Type 1 RRS beca
** RRS is taken from EPD CAP approval letter dated December 28,
FPP Free-phase petroleum present in the monitoring well

Table 4
Groundwater Analytical Results - May and June 2010
Fashion Care/Executive Care HSRA Site- HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	UST Program ISWQS (mg/L)	FMW-1(3)	FMW-2(3)	FMW-3(3)	FMW-4(3)	FWM-5	FMW-6	FMW-7	FMW-8(3)	FMW-9	FMW-10	FMW-11	FMW-12(3)	FMW-13(3)	FMW-14	FMW-15	FMW-16
	Date Sampled				3/8/10	3/8/10	3/9/10	3/8/10	3/11/10	3/11/10	3/9/10	3/8/10	3/11/10	3/11/10	3/11/10	3/17/10	3/17/10	5/27/10	6/15/10	6/15/10
Volatile Organic Compounds																				
Fashion Care HSRA Site Constituents of Interest																				
1,1-Dichloroethene		75-35-4	0.007	7.100	<0.005	<0.5	<0.005	**0.038**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone (MEK)		78-93-3	2		<0.05	<5.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone		67-64-1	4		<0.05	<0.5	<0.05	0.094	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
cis-1, 2-Dichloroethene		156-59-2	0.53		0.024	0.16J	<0.005	**63.0**	0.039	0.18	<0.005	0.0022J	0.29	0.11	0.01	0.0014J	0.0011J	**0.0074**	<0.005	<0.005
Tetrachloroethene (PCE)		127-18-4	0.005**	0.0033	**0.006**	<0.5	<0.005	**17.0**	**1.2**	**1.4**	<0.005	<0.005	**1.6**	<0.005	**0.044**	0.0046J	**0.018**	**0.01**	<0.005	<0.005
trans-1, 2-Dichloroethene		156-60-5	0.1	10	<0.005	<0.5	<0.005	**1.3**	<0.005	<0.005	<0.005	<0.005	0.0062	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene (TCE)		79-01-6	0.005**	0.03	0.0034J	<0.5	<0.005	**22.0**	**0.029**	**0.052**	<0.005	0.001J	**0.072**	**0.028**	**0.011**	<0.005	0.0026J	**0.02**	<0.005	<0.005
Vinyl Chloride		75-01-4	0.002**	0.0024	<0.002	<0.2	<0.002	**1.8**	**0.0028**	<0.002	<0.002	<0.002	<0.002	**0.011**	<0.002	<0.002	<0.002	<0.002	**0.0061**	<0.002
Properly Applied Chemicals and Non-HSRA Regulated Chemicals																				
1,2-Dichlorobenzene		95-50-1	NA(1)	1.300	<0.005	<0.5	<0.005	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Hexanone		591-78-6	NR		<0.01	<1.0	<0.01	0.037	<0.01	<0.01	<0.01	0.015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chlorobenzene		108-90-7	NA(1)		<0.005	<0.5	<0.005	0.002J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methylcyclohexane		108-87-2	NR		0.068	0.16J	0.051	0.039	<0.005	<0.005	<0.005	0.14	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Petroleum Constituents Related to the EZ-Serve UST SITE																				
1,2-Dibromoethane (EDB)		106-93-4	PRC	NA(2)	<0.005	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1, 2-Dichloroethane		107-06-2	PRC	0.099	<0.005	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	0.0013J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	NA(2)	<0.01	<1.0	<0.01	0.076	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	PRC	0.071	1.2	14.0	0.19	3.7	<0.005	<0.005	<0.005	2.4	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Cyclohexane		110-82-7	PRC	NA(2)	0.1	<0.5	0.053	0.069	<0.005	<0.005	<0.005	0.37	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene		100-41-4	PRC	29.0	0.6	3.0	0.0075	0.89	<0.005	<0.005	<0.005	2.2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Isopropylbenzene		98-82-8	PRC	NA(2)	0.027	0.095J	0.034	0.038	<0.005	<0.005	<0.005	0.086	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	NA(2)	3.2	1.1	0.0012J	1.3	<0.005	0.064	<0.005	<0.005	0.19	0.017	0.14	0.047	<0.005	**0.0033**	**0.0021**	<0.001
Styrene		100-42-5	PRC	NA(2)	<0.005	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene		108-88-3	PRC	200	3.4	15.0	0.0065	7.1	<0.005	<0.005	<0.005	5.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
Xylenes, Total		1330-20-7	PRC	NA(2)	2.34	16.9	0.019	3.7	<0.01	<0.01	<0.01	12.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001

NOTES:

BOLD Laboratory detection is above applicable regulatory standard.

ISWQS Georgia In-Stream Water Quality Standards (Rule 391-3-6-.03 Water Use Classifications and Water Quality Standards)

PRC Pertroleum related constituent

NA(1) Not Applicable - fumigant-insecticide properly applied

NA(2) Not Applicable - Petroleum related constituent which has no In-Stream Water Quality Standard

NR Not regulated

* Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Type 1 RRS has a higher value.

** RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS in Condition 8.

FPP Free-phase petroleum present in the monitoring well

Table 4
Groundwater Analytical Results - May and June 2010
Fashion Care/Executive Care HSRA Site- HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	UST Program ISWQS (mg/L)	SB-24[3]	SB-25[3]	SB-26[3]	MW-8	MW-9R	MW-11[3]	MW-13	MW-19	MW-21	MW-23D[3]
	Date Sampled				3/16/10	3/16/10	3/16/10	3/9/10	3/9/10	3/9/10	3/11/10	5/27/10	5/27/10	3/9/10
Volatile Organic Compounds														
Fashion Care HSRA Site Constituents of Interest														
1,1-Dichloroethene		75-35-4	0.007	7.100	<0.1	<0.1	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone (MEK)		78-93-3	2		0.81J	<1.0	<2.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone		67-64-1	4		2.6	<1.0	<2.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
cis-1, 2-Dichloroethene		156-59-2	0.53		**2.2**	**0.78**	**9.7**	<0.005	**1.7**	0.021	<0.005	<0.005	<0.005	0.095
Tetrachloroethene (PCE)		127-18-4	0.005**	0.0033	<0.1	<0.1	**9.0**	<0.005	**1.7**	**0.026**	<0.005	<0.005	<0.005	**18.0**
trans-1, 2-Dichloroethene		156-60-5	0.1	10	0.046J	<0.1	0.057J	<0.005	0.021	0.0011J	<0.005	<0.005	<0.005	0.0015J
Trichloroethene (TCE)		79-01-6	0.005**	0.03	**0.02J**	<0.1	**6.7**	<0.005	**0.62**	**0.016**	<0.005	<0.005	<0.005	**0.061**
Vinyl Chloride		75-01-4	0.002**	0.0024	**0.035J**	<0.04	**0.81**	<0.002	**0.087**	0.001J	<0.002	<0.002	<0.002	<0.002
Properly Applied Chemicals and Non-HSRA Regulated Chemicals														
1,2-Dichlorobenzene		95-50-1	NA(1)	1.300	<0.1	<0.1	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0021J
2-Hexanone		591-78-6	NR		0.16J	<0.2	<0.5	0.021	<0.01	<0.01	<0.01	<0.01	**0.031**	<0.01
Chlorobenzene		108-90-7	NA(1)		<0.1	<0.1	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methylcyclohexane		108-87-2	NR		0.094J	<0.061J	0.17J	0.092	0.14	0.0012J	<0.005	<0.005	**0.039**	0.0058
Petroleum Constituents Related to the EZ-Serve UST SITE														
1,2-Dibromoethane (EDB)		106-93-4	PRC	NA(2)	<0.1	<0.1	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005
1, 2-Dichloroethane		107-06-2	PRC	0.099	<0.1	<0.1	<0.25	<0.005	<0.005	<0.005	<0.005	<0.001	<0.01	0.00093J
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	NA(2)	<0.2	<0.2	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	**0.017**	<0.01
Benzene		71-43-2	PRC	0.071	3.5	1.5	0.33	1.0	0.83	0.047	<0.005	<0.001	**1.2**	0.00028J
Cyclohexane		110-82-7	PRC	NA(2)	0.12	0.12	0.17J	0.075	0.12	<0.005	<0.005	<0.005	**0.03**	<0.005
Ethylbenzene		100-41-4	PRC	29.0	0.55	1.4	0.065J	1.1	1.5	0.017	<0.005	**0.0027**	**0.5**	0.0009J
Isopropylbenzene		98-82-8	PRC	NA(2)	0.027J	0.044J	<0.25	0.081	0.14	0.001J	<0.01	<0.005	**0.028**	0.00036J
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	NA(2)	8.1	0.62	<0.25	0.013	0.15	0.0041J	0.012	**0.0017**	**0.27**	0.015
Styrene		100-42-5	PRC	NA(2)	<0.1	<0.1	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene		108-88-3	PRC	200	4.6	4.7	0.086J	2.3	0.15	0.0058	<0.005	<0.001	**0.26**	<0.005
Xylenes, Total		1330-20-7	PRC	NA(2)	3.15	6.3	0.081J	5.6	3.06	0.0084J	<0.01	<0.001	**1.2**	0.0041J

NOTES:

BOLD Laboratory detection is above applicable regulatory standard.
ISWQS Georgia In-Stream Water Quality Standards (Rule 391-3-6-.03 Wa
PRC Pertroleum related constituent
NA(1) Not Applicable - fumigant-insecticide properly applied
NA(2) Not Applicable - Petroleum related constituent which has no In-S
NR Not regulated
* Type 4 RRS is defaulted to the equivalent of the Type 1 RRS beca
** RRS is taken from EPD CAP approval letter dated December 28, 2
FPP Free-phase petroleum present in the monitoring well

Table 5
Surface Water Analytical Results - 2008 and 2010
Fashion Care/Executive Care HSRA Site - HSI #10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	UST Program/ ISWQS (mg/L)	Surface Water SW-1	Surface Water SW-2	Surface Water SW-3	Surface Water SW-1	Surface Water SW-2	Surface Water SW-3
	Date Sampled				9/8/08	9/8/08	9/8/08	1/5/10	1/5/10	1/5/10
Volatile Organic Compounds										
1, 1-Dichloroethene		75-35-4	0.007	7.1	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
2-Butanone (MEK)		78-93-3	2		<0.002	<0.002	<0.002	<0.05	<0.05	<0.05
Acetone		67-64-1	4		<0.002	<0.002	<0.002	<0.05	<0.05	<0.05
cis-1, 2-Dichloroethene		156-59-2	0.53		<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Tetrachloroethene (PCE)		127-18-4	0.005**	0.0033	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
trans-1, 2-Dichloroethene		156-60-5	0.1	10	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Trichloroethene (TCE)		79-01-6	0.005**	0.03	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Vinyl Chloride		75-01-4	0.002**	0.0024	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002
1,2-Dibromoethane (EDB)		106-93-4	PRC	NA(2)	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1, 2-Dichloroethane		107-06-2	PRC	0.099	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	NA(2)	<0.002	<0.002	<0.002	<0.01	<0.01	<0.01
Benzene		71-43-2	PRC	0.071	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Cyclohexane		110-82-7	PRC	NA(2)	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Ethylbenzene		100-41-4	PRC	29.0	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Isopropylbenzene		98-82-8	PRC	NA(2)	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	NA(2)	<0.002	<0.002	<0.002	<0.005	<0.005	<0.005
Styrene		100-42-5	PRC	NA(2)	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Toluene		108-88-3	PRC	200	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Xylenes, Total		1330-20-7	PRC	NA(2)	<0.002	<0.002	<0.002	<0.01	<0.01	<0.01

NOTES:

BOLD Laboratory detection is above applicable regulatory standard.

ISWQS Georgia In-Stream Water Quality Standards (Rule 391-3-6-.03 Water Use Classifications and Water Quality Standards)

PRC Pertroleum related constituent

NA(1) Not Applicable - fumigant-insecticide properly applied

NA(2) Not Applicable - Petroleum related constituent which has no In-Stream Water Quality Standard

NR Not regulated

* Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Type 1 RRS has a higher value.

** RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS in Condition 8.

Table 6
Sediment Analytical Results - June 2010
Fashion Care/Executive Care HSRA Site - HSI #10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location / Depth (feet bgs) / Date Sampled	CAS NUMBER	HSRA Soil Type 1 RRS	UST Soil TL*	SD-1 0-0.5 05/28/10	SD-2 0-0.5 05/28/10	SD-3 0-0.5 05/28/10	DUP 20110 (SD-2) 0-0.5 05/28/10
Volatile Organic Compounds (VOCs) - mg/kg								
1, 1-Dichloroethane		75-34-3	44.2	-	<0.0036	<0.0036	<0.0041	<0.0035
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	-	<0.00036	<0.0036	<0.0041	<0.0035
Acetone		67-64-1	400	-	<0.072	0.28	0.24	0.23
cis-1, 2-Dichloroethene		156-59-2	7	-	<0.0036	<0.0036	<0.0041	<0.0035
Tetrachloroethene (PCE)		127-18-4	0.5	-	<0.0036	<0.0036	<0.0041	<0.0035
trans-1, 2-Dichloroethene		156-60-5	10	-	<0.0036	<0.0036	<0.0041	<0.0035
Trichloroethene (TCE)		79-01-6	0.5	-	<0.0036	<0.0036	<0.0041	<0.0035
Vinyl Chloride (VC)		75-01-4	0.2	-	<0.0072	<0.0072	<0.0082	<0.0069
Benzene		71-43-2	PRC	0.02	<0.0036	<0.0036	<0.0041	<0.0035
Toluene		108-88-3	PRC	135	<0.0036	<0.0036	0.0047	<0.0035
Ethylbenzene		100-41-4	PRC	28	<0.0036	<0.0036	<0.0041	<0.0035
Total Xylenes		1330-20-7	PRC	700				
Cyclohexane		110-82-7	PRC	-	<0.0036	<0.0036	<0.041	<0.0035
Isopropylbenzene		98-82-8	PRC	-	<0.0036	<0.0036	<0.0041	<0.0035
MTBE		1634-04-4	PRC	-	<0.0036	<0.0036	<0.0041	<0.0035

NOTES:

BOLD Exceeds HSRA Type 1 RRS

* The applicable UST Threshold Level is Table B, Lower Groundwater Pollution Susceptibility Area, ≤ 500 feet to a Surface Water Body.

PRC Petroleum relalated constituents

Table 7
Water Table Elevation Measurements
Fashion Care/Executive Care HSRA Site - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Well ID	Top of Casing Elevation (ft msl)	September 4, 2008				December 1-3, 2008				March 19, 2010				April 7, 2010				May 28, 2010			
		Depth to Free-Phase Petroleum (ft bgs)	Depth to Groundwater (ft bgs)	Free-Product Thickness (ft)	Groundwater Elevation (ft msl)	Depth to Free-Phase Petroleum (ft bgs)	Depth to Groundwater (ft bgs)	Free-Product Thickness (ft)	Groundwater Elevation (ft msl)	Depth to Free-Phase Petroleum (ft bgs)	Depth to Groundwater (ft bgs)	Free-Product Thickness (ft)	Groundwater Elevation (ft msl)	Depth to Free-Phase Petroleum (ft bgs)	Depth to Groundwater (ft bgs)	Free-Product Thickness (ft)	Groundwater Elevation (ft msl)	Depth to Free-Phase Petroleum (ft bgs)	Depth to Groundwater (ft bgs)	Free-Product Thickness (ft)	Groundwater Elevation (ft msl)
FMW-1	98.92	-	15.05	-	83.87	-	14.91	-	84.01	-	11.10	-	87.82		NT				14.29		84.63
FMW-2	97.07	-	13.27	-	83.80	-	13.09	-	83.98	-	9.15	-	87.92		NT				12.26		84.81
FMW-3	96.96	-	13.34	-	83.62	-	13.35	-	83.61	-	10.54	-	86.42		NT				12.08		84.88
FMW-4	97.11	-	13.59	-	83.52	-	13.41	-	83.70	-	10.95	-	86.16		NT				12.68		84.43
FMW-5	95.40	-	12.85	-	82.55	-	12.56	-	82.84	-	11.69	-	83.71		NT				12.42		82.98
FMW-6	93.12	-	10.68	-	82.44	-	10.39	-	82.73	-	9.65	-	83.47		NT				10.34		82.78
FMW-7	96.81	NI	NI	NI	NI	-	13.32	-	83.49	-	11.20	-	85.61		NT				12.65		84.16
FMW-8	97.40	NI	NI	NI	NI	-	12.45	-	84.95	-	10.42	-	86.98		NT				12.63		84.77
FMW-9	94.07	NI	NI	NI	NI	-	11.44	-	82.63	-	10.89	-	83.18	-	NT	-			11.41		82.66
FMW-10	92.85	NI	NI	NI	NI	-	10.24	-	82.61	-	9.36	-	83.49		NT				9.80		83.05
FMW-11	94.40	NI	NI	NI	NI	-	11.65	-	82.75	-	11.03	-	83.37		NT				11.48		82.92
FMW-12	95.90	NI	NI	NI	NI	NI	NI	NI	NI	-	12.55	-	83.35	-	12.63	-	83.27		12.68		83.22
FMW-13	92.05	NI	NI	NI	NI	NI	NI	NI	NI	-	8.28	-	83.77		NT				9.35		82.70
FMW-14	92.35	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI		8.80		83.55
FMW-15	92.35	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
FMW-16	92.05	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
SB-24	98.56	-	14.50	-	84.06	-	NT	-	-	-	11.11	-	87.45		NT				13.53		85.03
SB-25	98.50	-	dry	-	dry	-	14.38	-	84.12	-	11.40	-	87.10		NT				13.39		85.11
SB-26	98.36	-	13.17	-	85.19	-	13.34	-	85.02	-	11.50	-	86.86		NT				12.23		86.13
MW-1	98.51	13.95	15.80	1.85	82.71	13.65	16.09	2.44	82.42	-	9.91	-	88.60		NT				13.43		85.08
MW-2R	98.38	-	13.83	-	84.55	-	13.50	-	84.88	-	9.06	-	89.32		NT				12.35		86.03
MW-3	98.56	-	13.92	-	84.64	13.68	13.69	0.01	84.87	-	9.30	-	89.26		NT				12.00		86.56
MW-4R	96.72	-	12.62	-	84.10	-	12.45	-	84.27	-	11.15	-	85.57		NT				12.23		84.49
MW-8	96.62	-	13.54	-	83.08	13.30	13.31	0.01	83.31	-	11.98	-	84.64		NT				12.98		83.64
MW-9R	97.11	13.85	13.88	0.03	83.23	-	13.65	-	83.46	-	11.75	-	85.36		NT				12.90		84.21
MW-10R	Converted to Recovery Well																				
MW-11	98.77	-	14.95	-	83.82	-	14.71	-	84.06	-	11.50	-	87.27		NT				14.12		84.65
MW-12	97.52	-	13.64	-	83.88	-	13.43	-	84.09	-	12.75	-	84.77		NT				13.34		84.18
MW-13	96.49	-	13.92	-	82.57	-	13.74	-	82.75	-	12.80	-	83.69		NT				13.36		83.13
MW-14	96.59	-	14.08	-	82.51	-	13.81	-	82.78	-	12.75	-	83.84		NT				13.48		83.11
MW-15	98.91	-	14.45	-	84.46	-	14.21	-	84.70	-	9.97	-	88.94		NT				13.30		85.61
MW-16	98.54	-	13.75	-	84.79	-	13.54	-	85.00	-	9.15	-	89.39		NT				12.30		86.24
MW-17	Converted to Recovery Well																				
MW-18	96.68	-	12.61	-	84.07	-	12.41	-	84.27	-	11.10	-	85.58		NT				12.14		84.54
MW-19	97.31	-	13.21	-	84.10	-	12.96	-	84.35	-	11.55	-	85.76		NT				12.89		84.42
MW-20	97.86	-	13.62	-	84.24	-	13.44	-	84.42	-	11.02	-	86.84		NT				13.03		84.83
MW-21	99.00	14.55	14.64	0.09	84.36	14.30	14.34	0.04	84.66	-	10.12	-	88.88		NT				12.70		86.30
MW-22	99.48	-	14.89	-	84.59	-	14.64	-	84.84	-	10.24	-	89.24		NT				13.50		85.98
MW-23D	96.13	-	13.00	-	83.13	-	12.79	-	83.34	-	11.12	-	85.01		NT				12.36		83.77
SG-1	86.84	NI	NI	NI	NI	NI	NI	NI	NI	-	3.65	-	83.19	-	3.72	-	83.12	Destroyed by High Water			
SG-2	86.38	NI	NI	NI	NI	NI	NI	NI	NI	-	3.87	-	82.51	-	3.94	-	82.44	Destroyed by High Water			

NOTES:
ft msl, feet above mean sea level.
ft toc, feet below top of casing.
MW-5, MW-6 and MW-7 do not exist
-, denotes no free-phase petroleum was found in the well
NT, measurement not taken
NI, Monitoring well not installed

Section 11
Figures

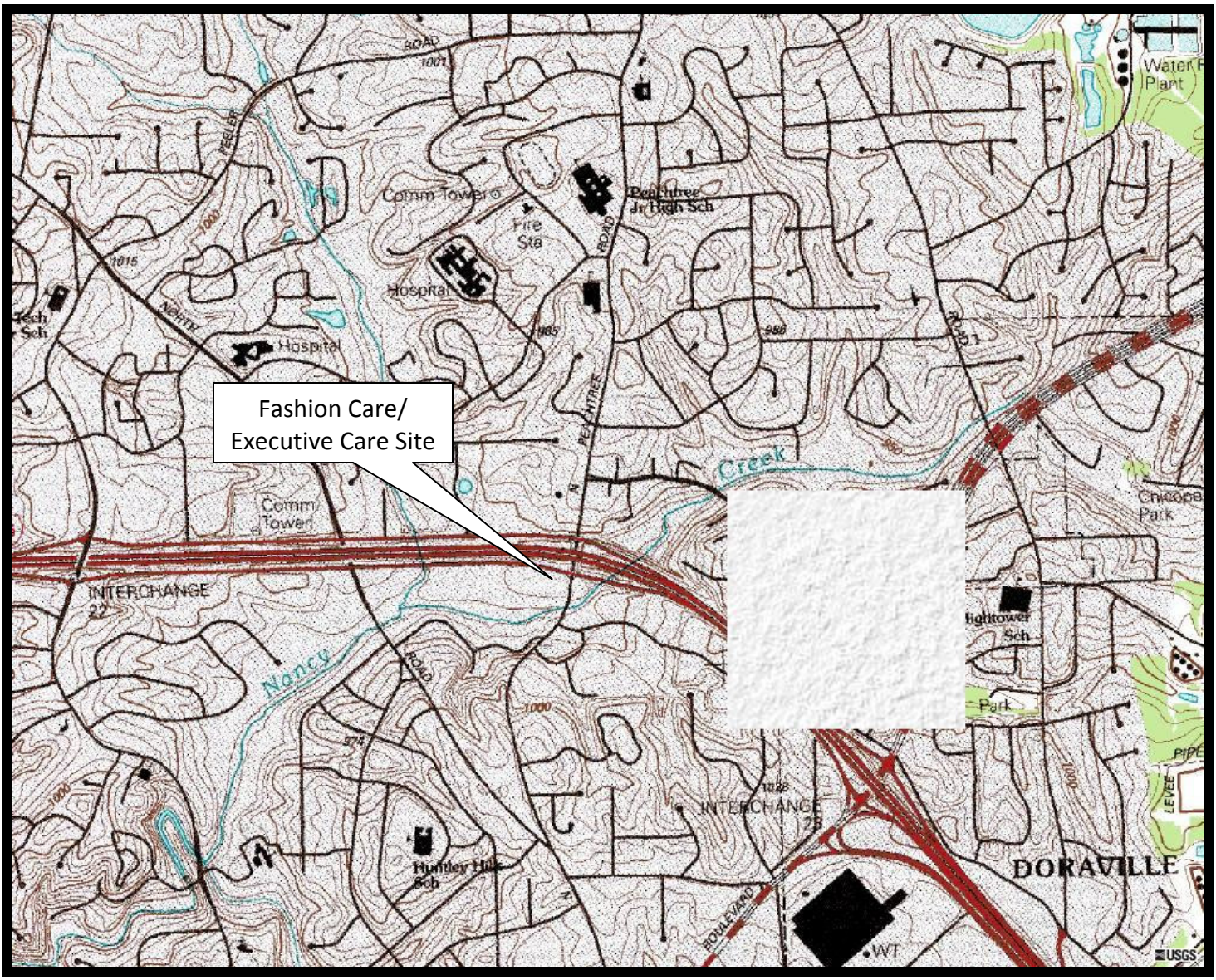
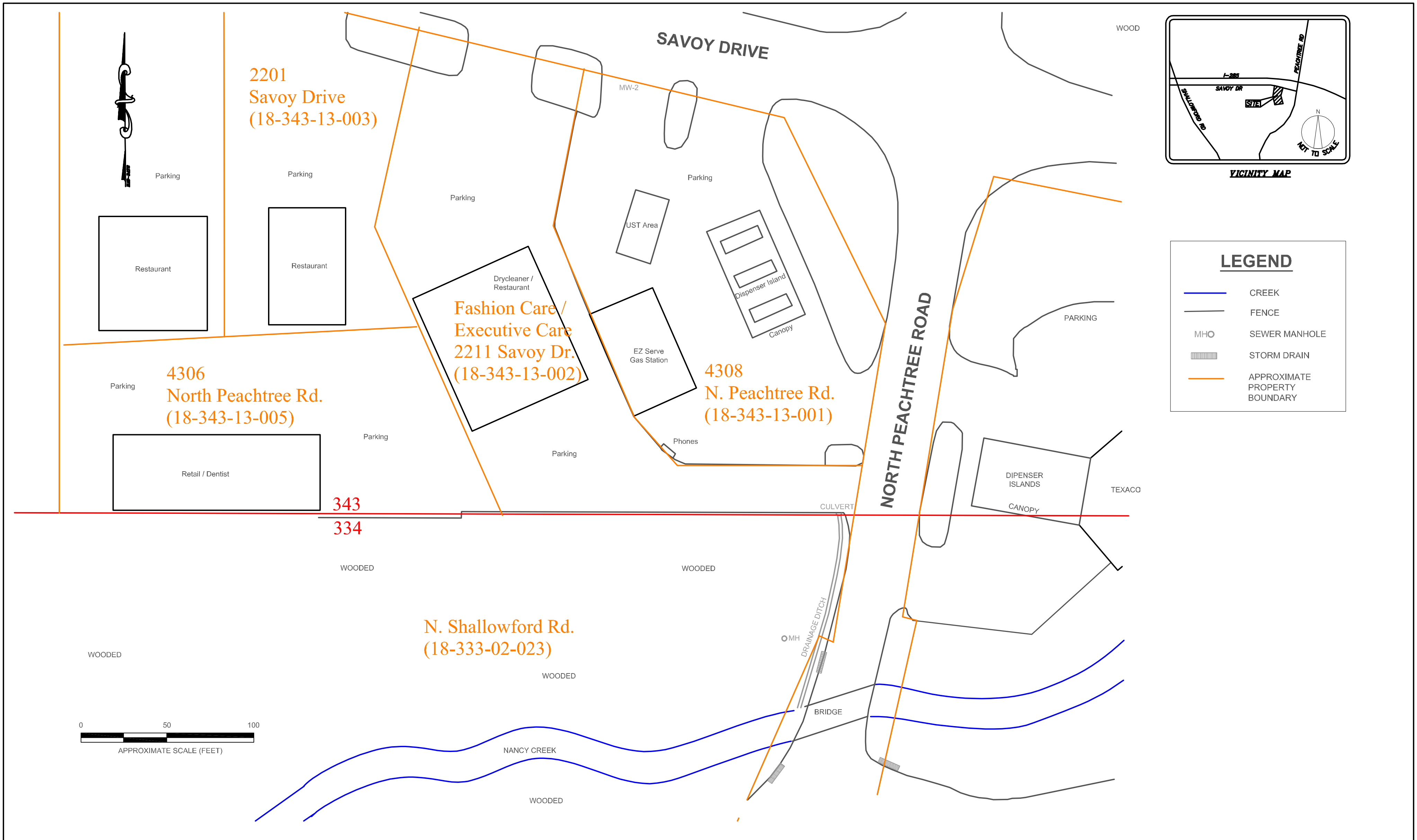


Image courtesy of the U.S. Geological Survey

Figure 1
Site Location Map
Fashion Care/Executive Care HSRA Site
2211 Savoy Drive, Chamblee, Georgia

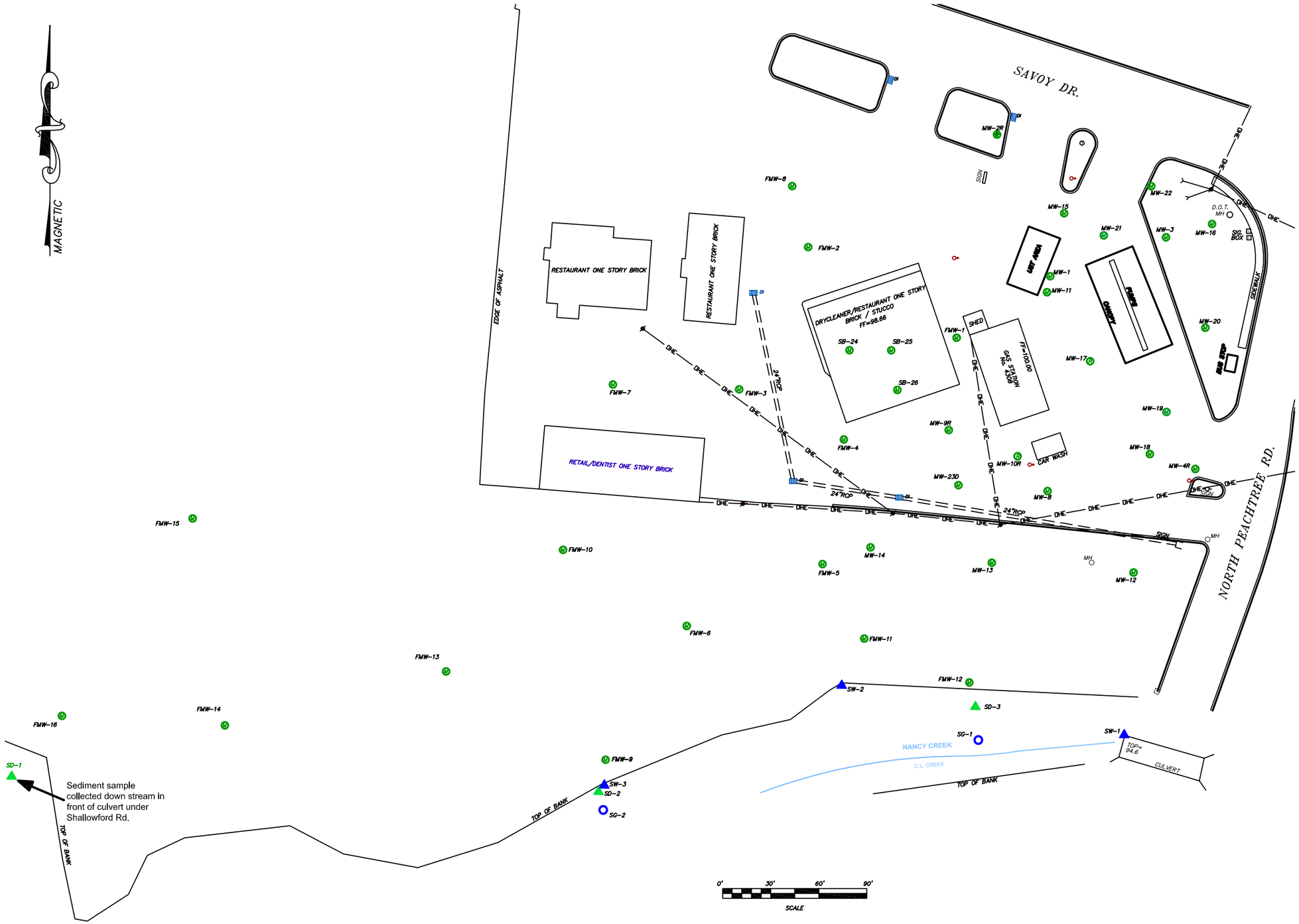


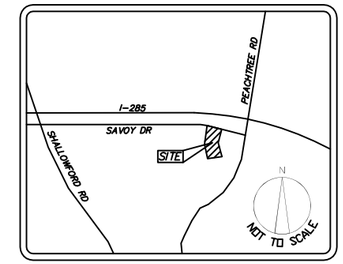
Referenced Drawing Is Based off of Landpro Survey

PROJECT NO.	DRAWN	DATE
08098	GTM	6/28/10

WINTER ENVIRONMENTAL

Figure 2
Tax Parcel Map
Fashion Care / Executive Care Site
2211 Savoy Dr
Chamblee, GA 30341





VICINITY MAP

LEGEND

- Monitoring Well
- Sediment Sample Location
- Surface water Sample Location
- Stream Gauge Location

Referenced Drawing is Based off of Landpro Survey

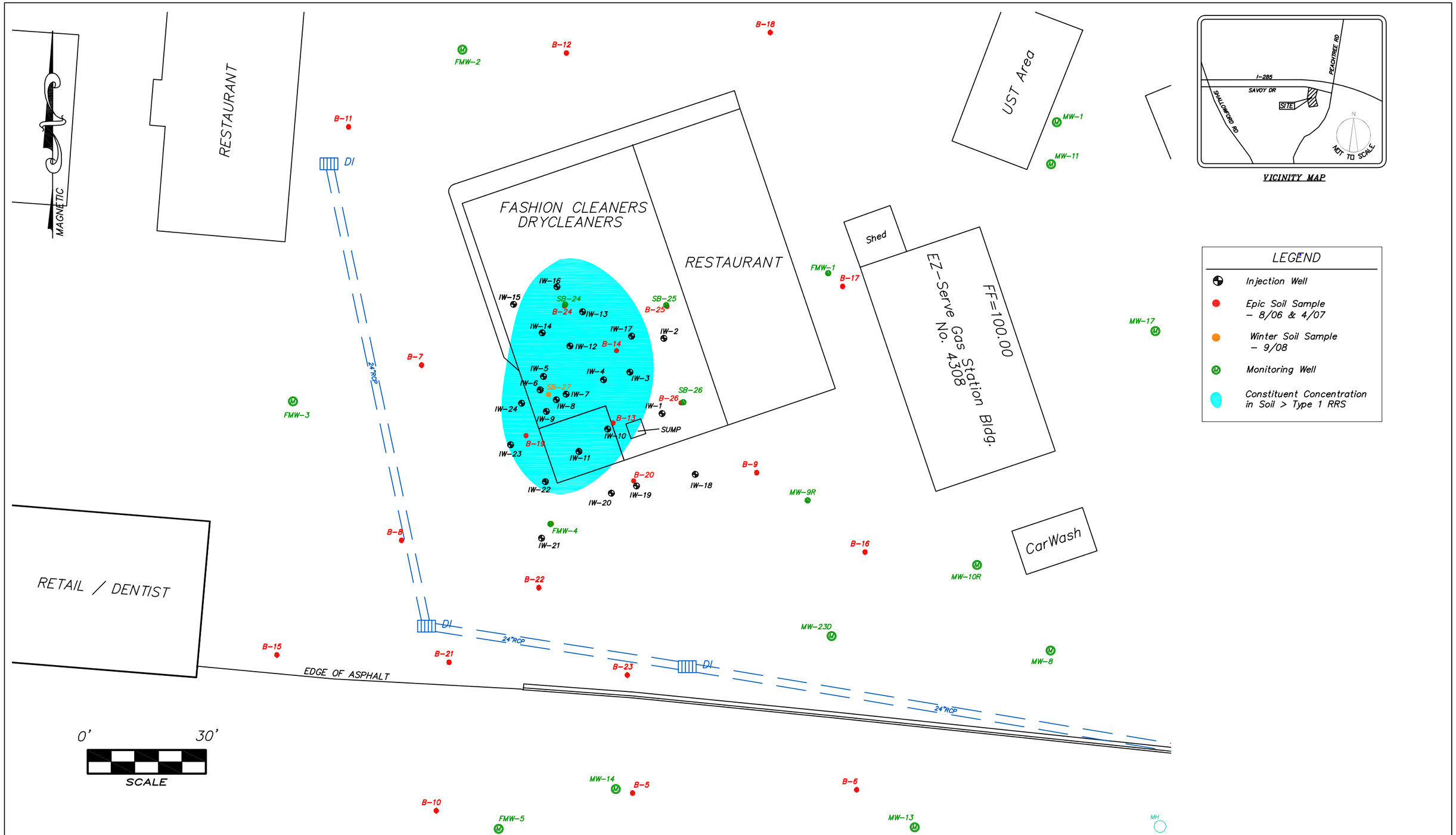
PROJECT NO.	DRAWN	DATE
08096	GTM	6/28/10

WINTER ENVIRONMENTAL

Figure 3

Groundwater, Surface Water and Sediment Sample Location Map

Fashion Care / Executive Care Site
2211 Savoy Dr
Chamblee, GA 30341

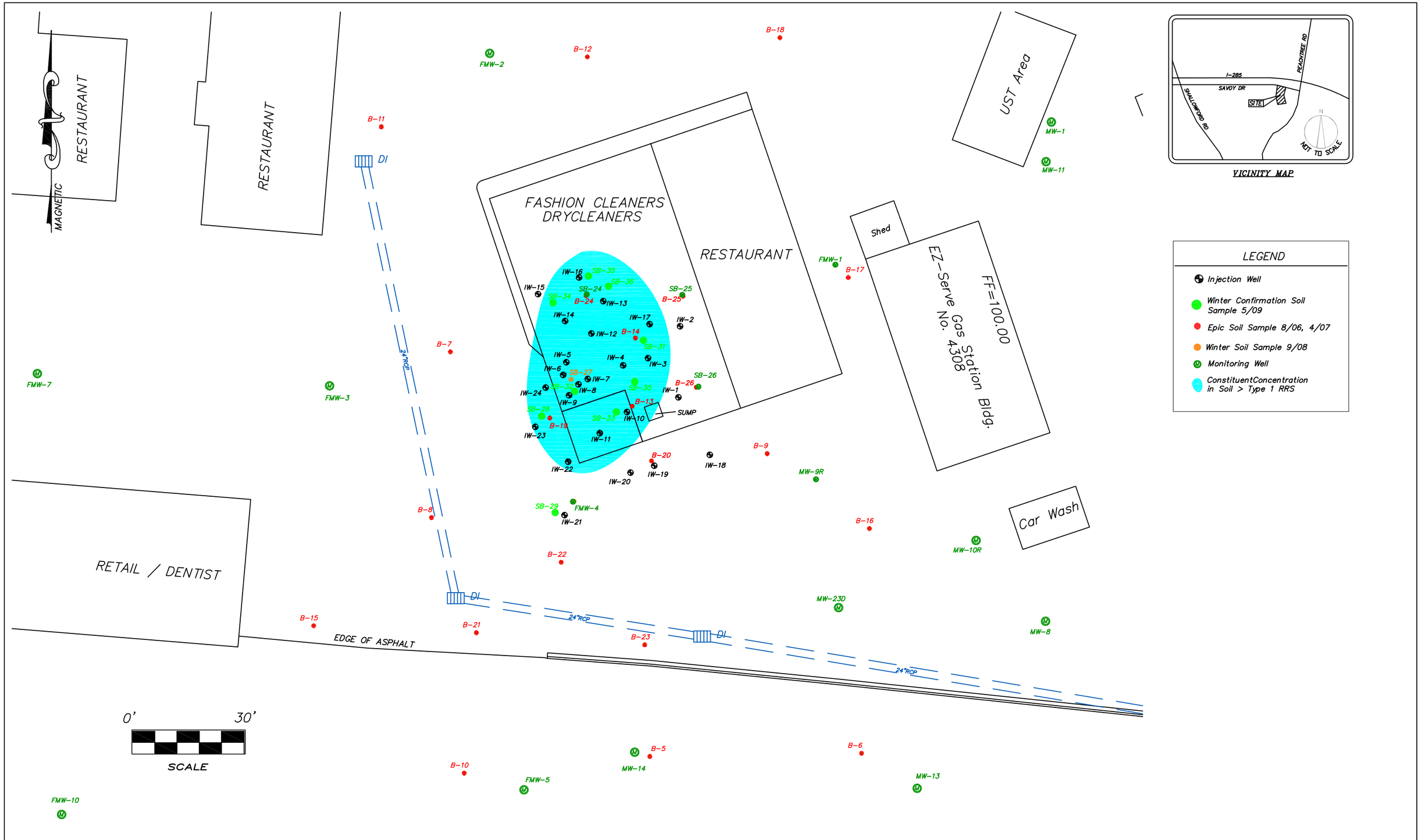


Referenced Drawing is Based off of Landpro Survey

PROJECT NO.	DRAWN	DATE
08096	GTM	6/28/10

WINTER ENVIRONMENTAL

Figure 4
Pre-Remediation Soil Delineation Map with Injection Points
Fashion Care / Executive Care Site
2211 Savoy Dr
Chamblee, GA 30341

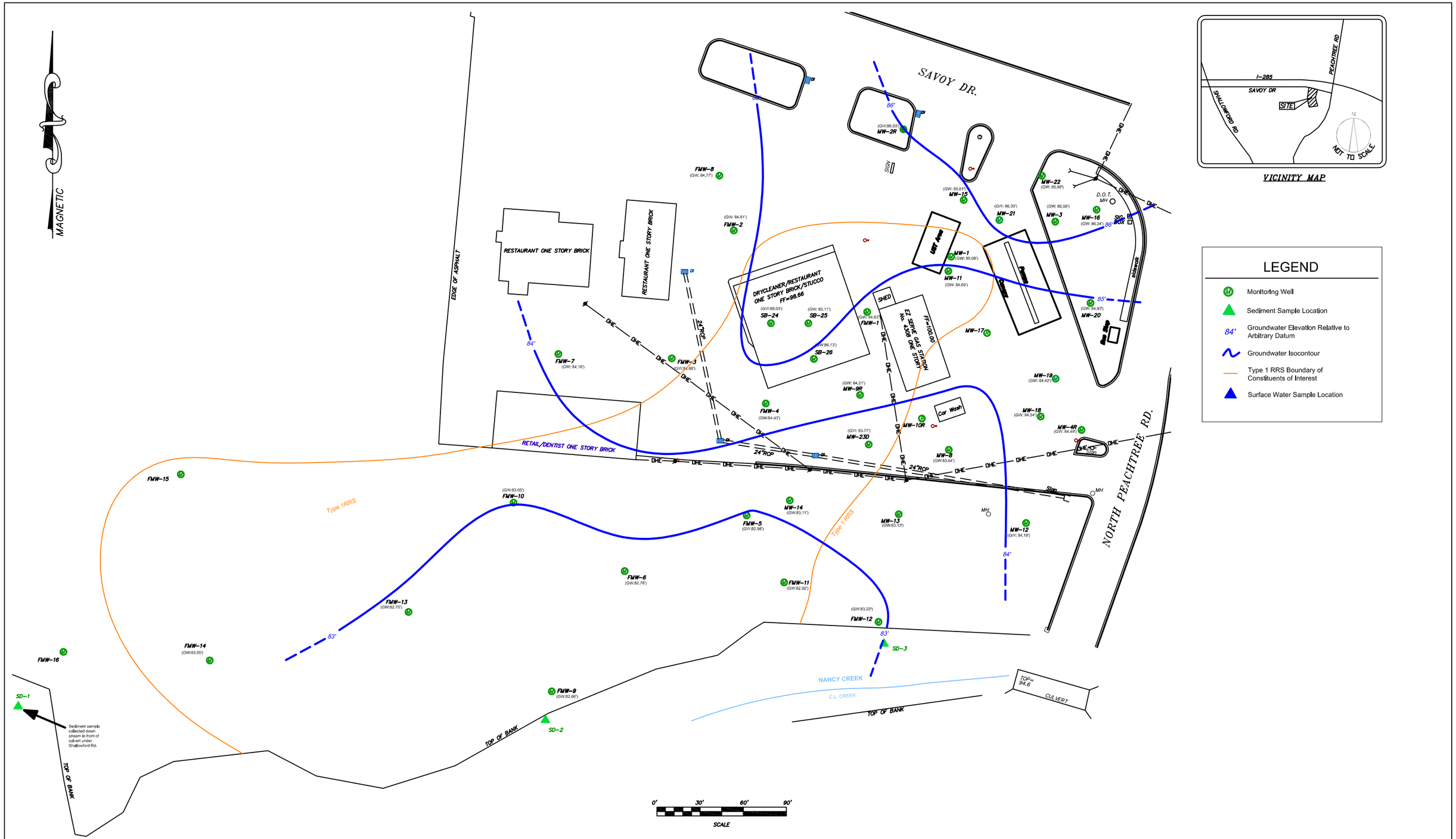


Referenced Drawing is Based off of Landpro Survey

PROJECT NO.	DRAWN	DATE
08096	GTM	6/28/10

WINTER ENVIRONMENTAL

Figure 5
Post-Remediation Soil Delineation Map
Fashion Care / Executive Care Site
2211 Savoy Dr
Chamblee, GA 30341



PROJECT NO.	DRAWN	DATE
08096	GTM	6/28/10

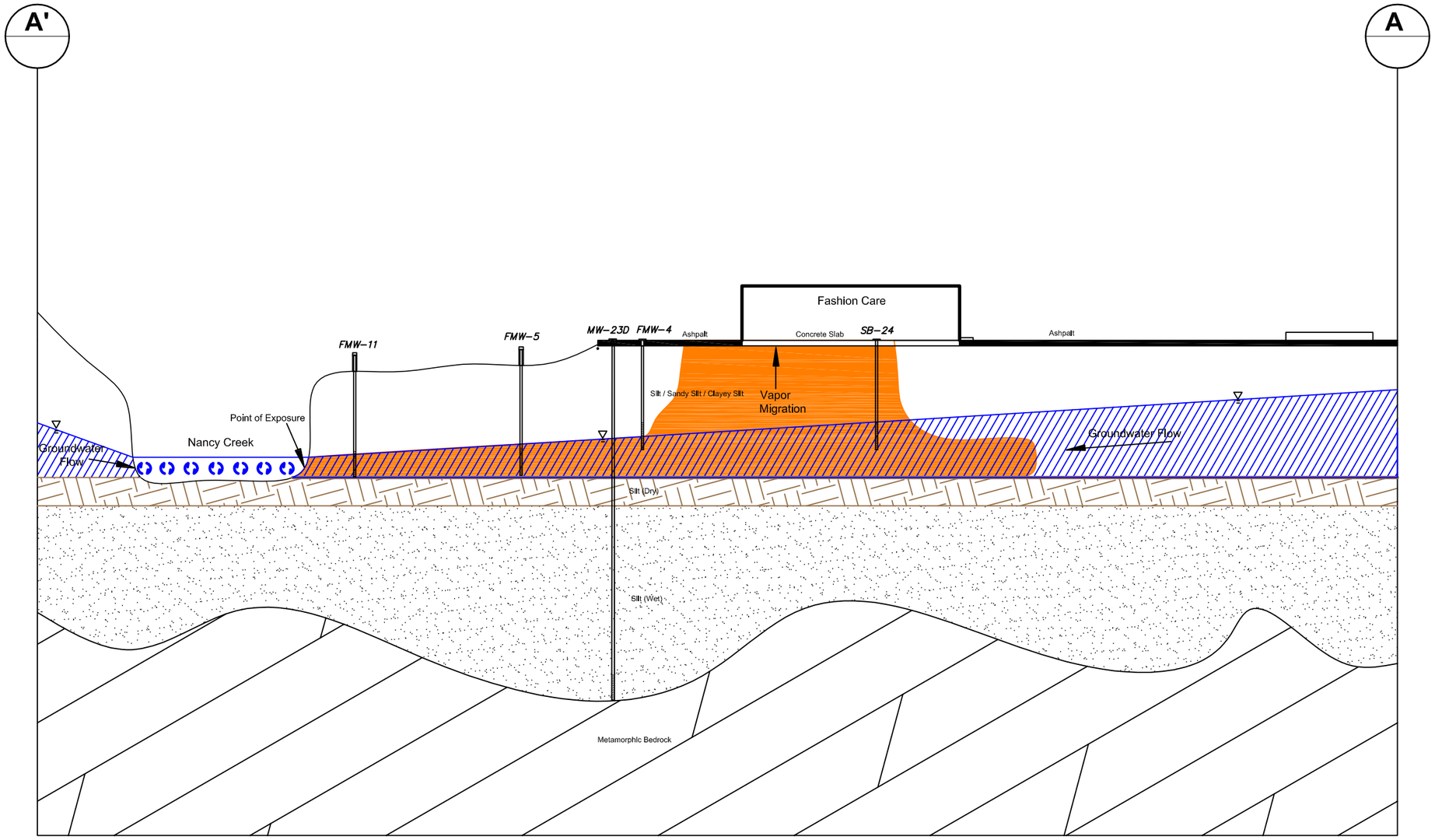
Referenced Drawing is Based off of Landpro Survey

WINTER ENVIRONMENTAL

Figure 7

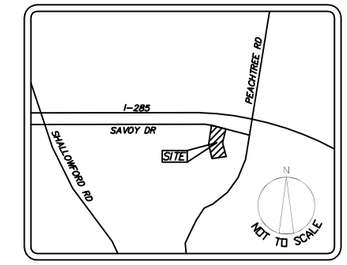
May/June 2010 Constituents in Groundwater & Potentiometric Surface Map

Fashion Care / Executive Care Site
2211 Savoy Drive
Chamblee, GA 30341



0' 30' 60' 90'

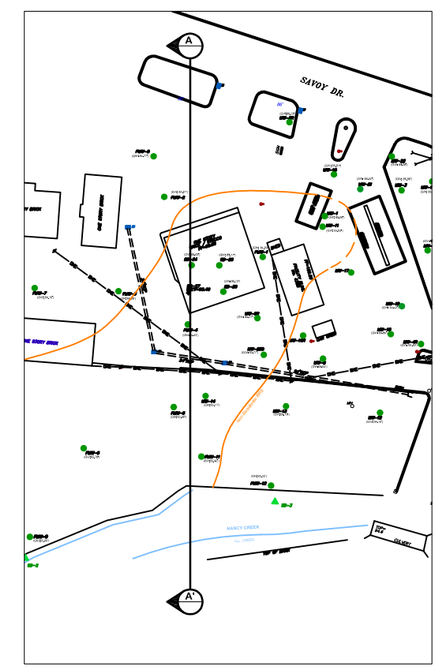
Approximate HORIZONTAL SCALE



VICINITY MAP

LEGEND

- Impacted Soil
- Impacted Groundwater
- Groundwater



Referenced Drawing is Based off of Landpro Survey

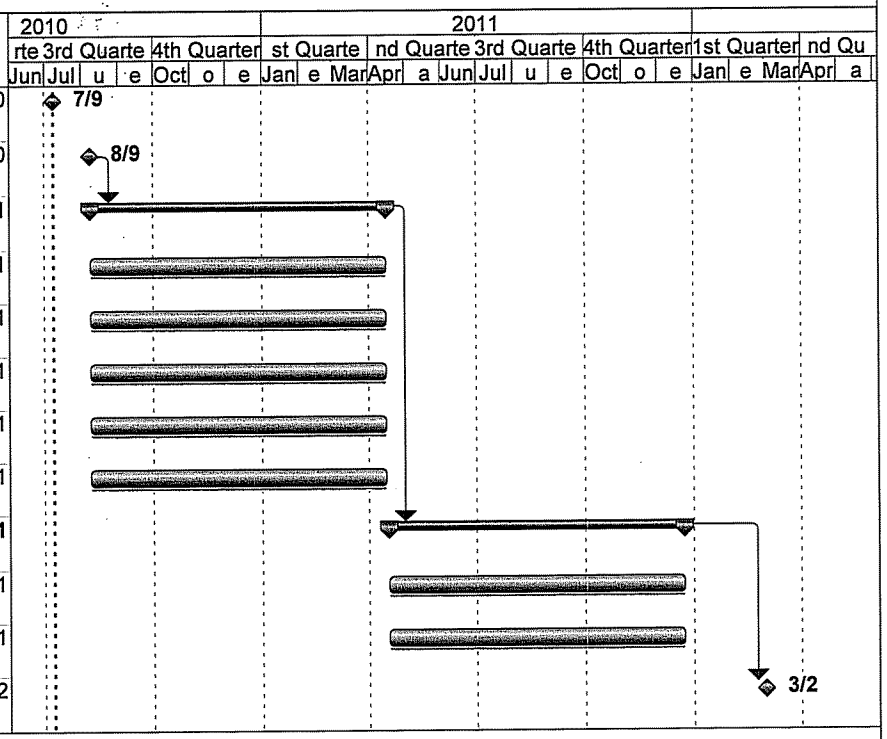
PROJECT NO.	DRAWN	DATE
08096	GTM	6/28/10

WINTER ENVIRONMENTAL

Figure 8
Conceptual Site Model
Fashion Care / Executive Care Site
2211 Savoy Dr
Chamblee, GA 30341

Figure 9
Voluntary Remediation Plan Schedule
Fashion Care/Executive Care Site, 2211 Savoy Drive, Chamblee Georgia

ID	Task Name	Duration	Start	Finish
1	**VRPA SUBMITTAL**	0 days	Fri 7/9/10	Fri 7/9/10
2	**EPD APPROVALOF VRPA**	0 days	Mon 8/9/10	Mon 8/9/10
3	**1st 6 MONTH STATUS REPORT**	**180 days**	**Mon 8/9/10**	**Fri 4/15/11**
4	Vertical Delineation	180 days	Mon 8/9/10	Fri 4/15/11
5	Vapor Mitigation System Design & Schedule	180 days	Mon 8/9/10	Fri 4/15/11
6	Executed Environmental Covenants	180 days	Mon 8/9/10	Fri 4/15/11
7	Point of Compliance Monitoring Plan	180 days	Mon 8/9/10	Fri 4/15/11
8	VRP Cost Estimate	180 days	Mon 8/9/10	Fri 4/15/11
9	**2nd 6 MONTH STATUS REPORT**	**180 days**	**Mon 4/18/11**	**Fri 12/23/11**
10	Results of 1st Round of Point of Compliance Monito	180 days	Mon 4/18/11	Fri 12/23/11
11	Vapor Mitigation System Completion Update	180 days	Mon 4/18/11	Fri 12/23/11
12	**VRP Compliance Status Report**	0 days	Fri 3/2/12	Fri 3/2/12



Date: 07/09/10

Task		Milestone		External Tasks	
Split		Summary		External Milestone	
Progress		Project Summary		Deadline	

Appendix A
Warranty Deeds

Deed Book 15562 Pg 660
Filed and Recorded Nov-18-2003 07:37pm
2003-0221807
Real Estate Transfer Tax $0.00

Linda Carter

Linda Carter
Clerk of Superior Court Dekalb Cty. Ga.

When recorded, return to:
DAVIS, MATTHEWS & QUIGLEY, P.C.
3400 Peachtree Road, NE
14th Floor - Lenox Towers II
Atlanta, Georgia 30326
ATTN: M.L. Drake, Jr., Esq.

CORRECTIVE WARRANTY DEED

STATE OF GEORGIA

COUNTY OF Ber Walton

THIS INDENTURE, made the 7 day of November, in the year of two thousand three, between

BUSINESS ASSOCIATES, INC., a Georgia corporation

as party of the first part, hereinafter called Grantor, and

JOHN F. ROWAN

as party of the second part, hereinafter called Grantee (the words "Grantor" and "Grantee" to include their respective heirs, successors and assigns where the context requires or permits).

WITNESSETH that: Grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS ($10.00), in hand paid at and before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, has granted, bargained, sold, aliened, conveyed and confirmed, and by these presents does grant, bargain, sell, alien, convey and confirm unto the said Grantee,

> ALL THAT TRACT or parcel of land lying and being in Land Lot 343 of the 18th District of DeKalb County, Georgia, and being more particularly described on Exhibit "A", attached hereto and incorporated herein by reference.

THIS PROPERTY is conveyed subject to General Utility Easements of record, zoning ordinances of DeKalb County, Georgia, and all 2003 taxes.

THIS CORRECTIVE Warranty Deed is given for the purpose of correcting a scrivener's error contained in that certain Warranty Deed recorded in Deed Book 14413, Page 733, DeKalb County, Georgia Records. The Grantee's name set forth in said Warranty Deed should have been John F. Rowan, and not John F. Rowman.

TO HAVE AND TO HOLD the said tract or parcel of land, with all and singular the rights, members and appurtenances thereof, to the same being, belonging, or in anywise appertaining, to the only proper use, benefit and behoof of the said Grantee forever in FEE SIMPLE.

AND THE SAID Grantor will warrant and forever defend the right and title to the above-described property unto the said Grantee against the claims of all persons whomsoever.

IN WITNESS WHEREOF, the Grantor has signed and sealed this deed, the day and year above written.

Signed, sealed and delivered
in the presence of:

Cheryl M. Clegg
Unofficial Witness

Christy G. Nix
Notary Public
Commission Expiration Date

(NOTARY SEAL)

CHRISTY G. NIX
NOTARY
EXPIRES
7-16-05
GEORGIA
PUBLIC
WALTON COUNTY

BUSINESS ASSOCIATES, INC.,
a Georgia corporation

BY: Hannah R. Kittrell
HANNAH R. KITTRELL
President

[CORPORATE SEAL]

[DULY AUTHORIZED, EMPOWERED AND DIRECTED TO EXECUTE AND DELIVER THIS INSTRUMENT]

Linda Carter

Linda Carter
Clerk of Superior Court Dekalb Cty. Ga.

All that tract or parcel of land lying and being in Land Lot 343 of the 18th District of DeKalb County, Georgia and being more particularly described as follows: Beginning at an iron pin on the westerly line of the right of way of North Peachtree Road (which line is 35 feet westerly from the center line of said road) and on the line dividing Land Lots 343 and 334; and running thence along said Land Lot line South, 89 degrees 53 minutes West, 213 feet to an iron pin; thence North 22 degrees 15 minutes West, 158.85 feet to an iron pin; thence North 15 degrees 11 minutes East, 120 feet to an iron pin on the southerly line of the right of way of I-285; thence South 74 degrees 49 minutes East along the southerly right of way of I-285, 100 feet to an iron pin; thence South 15 degrees 11 minutes West, 990 feet to an iron pin; thence South 23 degrees 25 minutes 30 seconds East, 111.6 feet to an iron pin; thence South 60 degrees 44 minutes East, 60 feet to an iron pin, thence North 89 degrees 53 minutes East, 75 feet to an iron pin on the westerly right of way of North Peachtree Road; thence along said right of way South 9 degrees 17 minutes 30 seconds West, 18 feet to the POINT OF BEGINNING. According to a Plat by Earnest L. Boggus dated June 14, 1968, revised April 10, 1969, revised May 8, 1970. Subject to covenants, easements and restrictions of record and to utility easements.

This is the same property conveyed by Business Associates, Inc. to CJH Capital Corporation by Warranty Deed dated September 21, 1987, recorded in Deed Book 5954, page 189, Clerk's Office, DeKalb County Superior Court

EXHIBIT A

De Book 14413 Pg 733
Filed and Recorded Apr-04-2003 09:09am
2003-0059416
Real Estate Transfer Tax $499.00

Linda Carter

Linda Carter
Clerk of Superior Court Dekalb Cty. Ga.

Russell, Stell, Smith & McLocklin, P.C.
P. O. Box 644
Winder, GA 30680

R03-7914

WARRANTY DEED

STATE OF GEORGIA

COUNTY OF BARROW

This Indenture made this **1st** day of **April,** in the year **Two Thousand Three**, between **Business Associates, Inc.**, of the County of DeKalb, State of Georgia, as party or parties of the first part, hereinunder called Grantor, and **John F. Rowman**, as party or parties of the second part, hereinafter called Grantee (the words "Grantor" and "Grantee" to include their respective heirs, successors and assigns where the context requires or permits).

W I T N E S S E T H that: Grantor, for and in consideration of the sum of **TEN AND 00/100'S ($10.00) Dollars** and other good and valuable consideration in hand paid at and before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, has granted, bargained, sold, aliened, conveyed and confirmed, and by these presents does grant, bargain, sell, alien, convey and confirm unto the said Grantee,

All that tract or parcel of land lying and being in Land Lot 343 of the 18th District of DeKalb County, Georgia and being more particularly described as follows: Beginning at an iron pin on the westerly line of the right of way of North Peachtree Road (which line is 35 feet westerly from the center line of said road) and on the line dividing Land Lots 343 and 334; and running thence along said Land Lot line South, 89 degrees 53 minutes West, 213 feet to an iron pin; thence North 22 degrees 15 minutes West, 158.85 feet to an iron pin; thence North 15 degrees 11 minutes East, 120 feet to an iron pin on the southerly line of the right of way of I-285; thence South 74 degrees 49 minutes East along the southerly right of way of I-285, 100 feet to an iron pin; thence South 15 degrees 11 minutes West, 990 feet to an iron pin; thence South 23 degrees 25 minutes 30 seconds East, 111.6 feet to an iron pin; thence South 60 degrees 44 minutes East, 60 feet to an iron pin, thence North 89 degrees 53 minutes East, 75 feet to an iron pin on the westerly right of way of North Peachtree Road; thence along said right of way South 9 degrees 17 minutes 30 seconds West, 18 feet to the POINT OF BEGINNING. According to a Plat by Earnest L. Boggus dated June 14, 1968, revised April 10, 1969, revised May 8, 1970. Subject to covenants, easements and restrictions of record and to utility easements.

This is the same property conveyed by Business Associates, Inc. to CJH Capital Corporation by Warranty Deed dated September 21, 1987, recorded in Deed Book 5954, page 189, Clerk's Office, DeKalb County Superior Court

This property is conveyed subject to General Utility Easements of record, zoning ordinances of DeKalb County, Georgia and all 2003 taxes.

TO HAVE AND TO HOLD the said tract or parcel of land, with all and singular the rights, members and appurtenances thereof, to the same being, belonging, or in anywise appertaining, to the only proper use, benefit and behoof of the said Grantee forever in **FEE SIMPLE.**

AND THE SAID Grantor will warrant and forever defend the right and title to the above described property unto the said Grantee against the claims of all persons whomsoever.

IN WITNESS WHEREOF, Grantor has hereunto set its corporate hand and affixed its corporate seal this day and year first above written.

Signed, sealed and delivered in the presence of:

Business Associates, Inc.

Robin Roberts
Witness

By: John F. Rowman (Seal)
John F. Rowman,, President

Notary Public

NOTARY PUBLIC Exp. Dec. 30 BARROW CO

By: _____ (Seal)

(Corporate Seal)

R03-7914
Rowman

Deed Book 19938 Pg 88
Filed and Recorded May-10-2007 07:19am
2007-0094454
Real Estate Transfer Tax $81.50
Linda Carter
Clerk of Superior Court
DeKalb County, Georgia

AFTER RECORDING, RETURN TO:
Alissa L. Cummo, Esq.
ANDERSEN, TATE & CARR, P.C.
1505 Lakes Parkway, Suite 100
Lawrenceville, Georgia 30043
File #4161.70067

LIMITED WARRANTY DEED

STATE OF GEORGIA
COUNTY OF GWINNETT

THIS INDENTURE, Made the 9th day of May, 2007, between

METRO ATLANTA COMMERCIAL PROPERTIES, LLC,
a Georgia limited liability company

as party or parties of the first part, hereinafter called Grantor, and

GEORGIA-ALABAMA COMMERCIAL INVESTMENTS, LLC,
a Delaware limited liability company

as parties of the second part, hereinafter called Grantee (the words "Grantor" and "Grantee" to include their respective heirs, successors and assigns where the context requires or permits).

WITNESSETH that: Grantor, for and in consideration of the sum of TEN DOLLARS AND OTHER GOOD AND VALUABLE CONSIDERATIONS ($10.00) in hand paid at and before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, has granted, bargained, sold, aliened, conveyed and confirmed, and by these presents does grant, bargain, sell, alien, convey and confirm unto the said Grantee,

> All that tract or parcel of land lying and being in Land Lot 178 of the 15th District and Land Lot 343 of the 18th District, DeKalb County, Georgia, as more particularly described in Exhibit "A" attached hereto and incorporated herein by reference.

The property described herein is being conveyed subject to the items listed in Exhibit "B" attached hereto and incorporated by reference.

This conveyance is made subject to that certain Deed to Secure Debt from Metro Atlanta Commercial Properties, LLC to Fidelity National Bank dated April 28, 2003, in the original principal amount of $5,360,000.00, filed for record April 30, 2003 and recorded in Deed Book 14402, Page 215, DeKalb County, Georgia records, with a current principal amount of $5,121,339.00.

TO HAVE AND TO HOLD the said tract or parcel of land, with all and singular the rights, members and appurtenances thereof, to the same being, belonging, or in anywise appertaining, to the only proper use, benefit and behoof of the said Grantee forever in FEE SIMPLE.

AND THE SAID Grantor will warrant and forever defend the right and title to the above described property unto the said Grantee against the claims of Grantor and all others claiming by, through or under Grantor.

IN WITNESS WHEREOF, the Grantor has signed and sealed this deed, the day and year above written.

Signed, sealed and delivered
in the presence of:

Unofficial Witness

Notary Public

[NOTARY SEAL]

METRO ATLANTA COMMERCIAL PROPERTIES, LLC, a Georgia limited liability company

By: _____ (SEAL)
Marvin K. Hewatt, Manager

EXHIBIT "A"
LEGAL DESCRIPTION

225 CLIFTON STREET, SE, ATLANTA, GEORGIA

ALL THAT TRACT OR PARCEL OF LAND lying and being in Land Lot 178 of the 15th District, Dekalb County, Georgia, containing 0.875 acres according to a ALTA/ACSM Land Title Survey for Metro Atlanta Commercial Properties, LLC, prepared by Thompson & Associates Land Surveying, Inc. by William B. Thompson (G.R.L.S, No. 2027), dated February 3, 2003, and being more particularly described according to said survey as follows:

BEGINNING at a rebar found located at the intersection of the southerly right-of-way line of Memorial Drive (a/k/a Georgia Highway 154) (70' R/W) and the westerly right-of-way line of Clifton Street SE (50' R/W), run thence along the aforesaid right-of-way line of Clifton Street South 00 degrees 16 minutes 59 seconds East a distance of 190.02 feet to a one-inch iron pin found; leaving the aforesaid right-of-way line, run thence South 87 degrees 03 minutes 33 seconds West a distance of 200.53 feet to a rebar found; run thence North 00 degrees 20 minutes 00 seconds West a distance of 190.34 feet to a rebar found located on the aforesaid southerly right-of-way line of Memorial Drive; run thence along the aforesaid right-of-way line North 87 degrees 09 minutes 06 seconds East a distance of 200.69 feet to a point marked by a rebar found, said point being the true place or point of BEGINNING.

4308 NORTH PEACHTREE ROAD, CHAMBLEE, GEORGIA

ALL THAT TRACT OR PARCEL OF LAND lying and being in Land Lot 343 of the 18th District, Dekalb County, Georgia, according to an ALTA/ACSM Land Title Survey for Metro Atlanta Commercial Properties, LLC, Fidelity National Bank and Lawyers Title Insurance Corporation prepared by Busbee Land Surveying Co., Inc by Ricky C. Busbee (G.R.L,S. No. 2497), dated December 14, 1997, as last revised March 21, 2003, and being more particularly described according to said survey as follows:

BEGINNING at a point marked by an one-half inch rebar found located on the westerly right-of-way line of North Peachtree Road (70' R/W), said point being located 18.00 feet in a generally northeasterly direction along said right-of-way line of North Peachtree Road from its intersection with the Land Lot Line common to Land Lots 334 and 343, leaving the aforesaid right-of-way line of North Peachtree Road, run thence South 89 degrees 53 minutes 00 seconds West a distance of 75.00 feet to a one-half inch rebar found; run thence North 60 degrees 44 minutes 00 seconds West a distance of 60.00 feet to a one-half inch rebar found; run thence North 23 degrees 25 minutes 30 seconds West a distance 111.60 feet to an iron pin placed; run thence North 15 degrees 11 minutes 06 seconds East a distance of 90.00 feet to a point located on the southwesterly right-of-way line of I-285 Access Road Circumferential Highway (R/W Varies); run thence along the aforesaid right-of-way line South 74 degrees 49 minutes 00 seconds East a distance of 112.00 feet to an iron pin placed located at the northwesternmost point of a mitered intersection oft the aforesaid right-of-way line of I-285 Access Road Circumferential Highway and the aforesaid westerly right-of-way line of North Peachtree Road; run thence along said miter

South 23 degrees 23 minutes 55 seconds East a distance of 129.70 feet to a point marked by an iron pin placed, said point being the southeasternmost point of the aforesaid mitered intersection and being located on the aforesaid right-of-way line of North Peachtree Road; run thence along the aforesaid right-of-way line South 09 degrees 17 minutes 30 seconds West a distance of 71.00 feet to a point marked by an one-half inch rebar found, said point being the true place or point of BEGINNING.

EXHIBIT "B"
PERMITTED TITLE EXCEPTIONS

AS TO 225 CLIFTON STREET, SE, ATLANTA, GEORGIA

1. Taxes and assessments for the year 2007 and subsequent years, a lien but not yet due and payable.

2. Rights of tenants in possession, as tenants only, under prior unrecorded leases. Such rights do not include any options to purchase or rights of first refusal to purchase all or any portion of the insured land.

AS TO 4308 NORTH PEACHTREE ROAD, CHAMBLEE, GEORGIA

1. Taxes and assessments for the year 2007 and subsequent years, a lien but not yet due and payable.

2. Rights of tenants in possession, as tenants only, under prior unrecorded leases. Such rights do not include any options to purchase or rights of first refusal to purchase all or any portion of the insured land.

Appendix B
Boring Logs, Well Construction Logs, Slug Test Data (Winter Environmental)

Soil Boring Log

Boring ID: FMW-1

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	9/3/08
Location:	Immediately east of dry cleaner	Date Completed:	9/3/08
Driller:	Atlas Geo Sampling	Field Oversite:	Joe King/L. Diprima
DTW:	18' Final Depth: 25'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt/Gravel 4 inches			
	Reddish Brown White silty SAND, fine-med, moist	80%		Petroleum smell in the boring. No soil samples collected
5	Brown Tan silty SAND, fine-med, moist	100%		
	Brown Tan Green silty CLAY, moist	100%		
10	Red Tan mottled clayey SILT, moist	100%		
15	Tan Gray silty CLAY, moist ▽ WT~18' Tan Gray silty SAND, fine-med, WET	100%		
20	Reddish Brown mottled silty SAND to clayey SILT, WET	100%		
25	Boring Terminated @ 25' BLS			
30				
35				
40				

Soil Boring Log

Boring ID: FMW-2

WINTER ENVIRONMENTAL

Project: Fashion Care
Project No: 8096
Location: Northeast od dry cleaner
Driller: Atlas Geo Sampling
DTW: 16' Final Depth: 24'

Elevation:
Date started: 9/3/08
Date Completed: 9/3/08
Field Oversite: Joe King/L. Diprima

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt/Gravel 4 inches			
	Reddish Brown clayey SILT, moist	100%		Petroleum smell in boring. No soil samples collected
5	Tan Brown silty CLAY, moist	100%		
	Light Brown Tan Red sandy SILT, moist	100%		
10		100%		
15	▽ WT~16'			
	Tan Red White sandy SILT, WET	100%		
20		100%		
25	Boring Terminated @ 24' BLS			
30				
35				
40				

Soil Boring Log

Boring ID: FMW-3

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	9/3/08
Location:	West of dry cleaner	Date Completed:	9/3/08
Driller:	Atlas Geo Sampling	Field Oversite:	Joe King/L. Diprima
DTW:	15' Final Depth: 20'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt/Gravel 4 inches			No soil sammples collected
	Reddish Brown silty CLAY, moist	100%		
5		100%		
10	Light Brown Tan silty CLAY, moist	100%		
		100%		
15	▽ WT~15' Tan White sandy SILT, WET			
	Reddish Brown silty CLAY, WET	100%		
20	Terminate Boring @20' BLS			
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-4

Project: Fashion Care
Project No: 8096
Location: Outside, immediately south of dry cleaner
Driller: Atlas Geo Sampling
DTW: 14' Final Depth: 20'

Elevation:
Date started: 9/4/08
Date Completed: 9/4/08
Field Oversite: Joe King/L. Diprima

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt/Gravel 4 inches			
	Reddish Brown silty CLAY, moist	80%	0-2'	Sample for VOC's
5	Reddish Tan silty CLAY, moist	80%	4'-8'	Sample For VOC's
10		100%		
	Reddish Brown clayey SILT, moist		11'-13'	Sample For VOC's
	▽ WT~14'	100%		
15	WET			
	Reddish Brown Tan SAPROLITE, WET	100%		
20	Terminate Boring @20' BLS			
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-5

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	9/4/08
Location:	South of dry cleaners	Date Completed:	9/4/08
Driller:	Atlas Geo Sampling	Field Oversite:	Joe King/L. Diprima
DTW:	14' Final Depth: 16'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown Tan silty CLAY, dry	100%		No soil samples collected
5	Reddish Brown silty CLAY, moist	100%		
10	▽ WT~14'	100%		
	WET	100%		
15	Gray silty CLAY, WET			
	Terminate Boring @16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-6

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	9/4/08
Location:	Southwest of dry cleaners	Date Completed:	9/4/08
Driller:	Atlas Geo Sampling	Field Oversite:	Joe King/L. Diprima
DTW:	14' Final Depth: 16'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown Red silty CLAY, dry	100%		No soil samples collected
5	Reddish Brown silty CLAY, micaceous, moist	100%		
10	▽ WT~14'	100%		
15	Reddish Brown silty CLAY, micaceous, WET	100%		
	Terminate Boring @16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-7

Project: Fashion Care
Project No: 8096
Location: West of dry cleaner
Driller: Atlas Geo Sampling
DTW: 11' Final Depth: 18'

Elevation:
Date started: 11/25/08
Date Completed: 11/25/08
Field Oversite: Joe King/L. Diprima

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt/Gravel 4 inches			
	Black Brown silty SAND, fine-med, damp			No soil samples collected
	Red Tan silty CLAY, moist	50%		
5	Red Brown Tan silty CLAY, moist			
	White Tan silty SAND, med., moist	90%		
	Red Tan Brown silty SAND, fine-med, moist			
10	▽ WT~11'	100%		
	Reddish Tan silty SAND, fine-med, WET.			
15		100%		
		100%		
	Boring Terminated @ 18' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-8

Project: Fashion Care
Project No: 8096
Location: Northwest of dry cleaner
Driller: Atlas Geo Sampling
DTW: 13' Final Depth: 20'

Elevation:
Date started: 11/25/08
Date Completed: 11/25/08
Field Oversite: Len Diprima/Joe King

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	4" Asphalt			
	Reddish Brown silty CLAY Fill	50%		No soil samples collected
5	Brown Clayey sandy SILT, strong petroleum odor.	85%		
	(7') Grading to Grey SILT, moist, strong petroleum odor.			
10	Very Moist @12'	100%		
	▽ WT~13'			
15	Grading to Reddish Brown SILT, wet, strong petroleum o odor.	100%		
		100%		
20	Boring Terminated @ 20' BLS			
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-9

Project: Fashion Care
Project No: 8096
Location: Southwest of dry cleaner near creek
Driller: Atlas Geo Sampling
DTW: 8.5' Final Depth: 16'

Elevation:
Date started: 11/25/08
Date Completed: 11/25/08
Field Oversite: Len Diprima/Joe King

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish Brown SILT	45%		No soil samples collected
5	(7') Moist.	60%		
	▽WT~8.5'			
10	8.5' Grey sandy SILT, w/scattered round pebbles, WET	50%		
15	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-10

Project: Fashion Care
Project No: 8096
Location: Southwest of dry cleaner
Driller: Atlas Geo Sampling
DTW: 9' Final Depth: 16'

Elevation:
Date started: 11/25/08
Date Completed: 11/25/08
Field Oversite: Len Diprima/Joe King

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish Brown SILT, mosit	50%		No soil samples collected.
5	Tan Red silty CLAY, moist	80%		
10	▽ WT~9' Reddish Brown with some tan silty SAND, fine-med WET.	100%		
15	Tan Red silty SAND, fine-med WET.	100%		
	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-11

Project: Fashion Care
Project No: 8096
Location: South of dry cleaner
Driller: Atlas Geo Sampling
DTW: 9' Final Depth: 16'

Elevation:
Date started: 11/25/08
Date Completed: 11/25/08
Field Oversite: Len Diprima/Joe King

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish Brown silty CLAY, mosit	50%		No soil samples collected
5		80%		
	▽ WT~9'			
10	Reddish Tan silty CLAY, WET	100%		
15		100%		
	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-12

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	3/17/10
Location:	South of dry cleaner	Date Completed:	3/17/10
Driller:	Atlas Geo Sampling	Field Oversite:	Diprima
DTW:	9' Final Depth: 16'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish Brown SILT, some relict rock structure	60%		No soil samples collected
5	5'-7' clayey SILT	80%		
▽	9' sandy SILT; WET	90%		
10				
	14'-15' Gravel	50%		
15	15'-16' Grey SILT; DRY			
	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-13

Project: Fashion Care
Project No: 8096
Location: South of dry cleaner
Driller: Atlas Geo Sampling
DTW: 9' Final Depth: 16'

Elevation:
Date started: 3/17/10
Date Completed: 3/17/10
Field Oversite: Diprima

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown SILT, moist	50%		No soil samples collected
5	4'-7' clayey SILT; moist	70%		
	7' Grey sandy SILT grading to silty SAND 8' WET			
10	10' Light Green to Reddish Brown SILT relict rock structure; moist	100%		
15		95%		
	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-14

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	5/27/10
Location:	South of dry cleaner	Date Completed:	5/27/10
Driller:	Atlas Geo Sampling	Field Oversite:	Diprima
DTW:	9' Final Depth: 16'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown SILT; micaceous	70%		No soil samples collected
5	5' Grey SAND; very coarse to fine, poorly sorted, micaceous, becoming silty with depth (6' WET) angluar sand - residual not deposited	75%		
▽ 10		0%		
15		100%		
	15' Yellowish-Brown SILT; moist			
	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-15

Project: Fashion Care
Project No: 8096
Location: South of dry cleaner
Driller: Atlas Geo Sampling
DTW: 5' Final Depth: 16'

Elevation:
Date started: 6/15/10
Date Completed: 6/15/10
Field Oversite: V Owens/L LeMay

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Grey silty CLAY, moist	70%		No soil samples collected
	WT~5' ▽			
5	Grey SAND, wet slight silt	70%		
10	Hard dry clayey SILT, striations (Saprolite)	100%		
15	Same	100%		
	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-16

Project: Fashion Care
Project No: 8096
Location: South of dry cleaner
Driller: Atlas Geo Sampling
DTW: 6' Final Depth: 16'

Elevation:
Date started: 6/15/10
Date Completed: 6/15/10
Field Oversite: V Owens/L LeMay

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish Brown micacous SILT	80%		No soil samples collected
5	WT~6' ▽	100%		
10	Wet grey silty coarse SAND, angular	80%		
	Orange yellow silty CLAY, dry w/striations	100%		
15	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: SB-28

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	5/8/09
Location:	Immediately east of dry cleaner	Date Completed:	5/8/09
Driller:	Atlas Geo Sampling	Field Oversite:	Greg Muse
DTW:	10' Final Depth: 12'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt 3"			
	Reddish Brown silty CLAY, moist at 2' and below	70%	0'-2'	
5		75%	4'-6'	
	Reddish Brown clayey sandy SILT, moist			
10	▽ WT~10	100%	8'-10'	
	Greenish Brown clayey SILT,moist,wet @ 10'			
	Boring Terminated @ 12' BLS			
15				
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: SB-29

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	5/8/09
Location:	Immediately east of dry cleaner	Date Completed:	5/8/09
Driller:	Atlas Geo Sampling	Field Oversite:	Greg Muse
DTW:	9.5' Final Depth: 12'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Concrete 4"			
	Clay Fill		0'-2'	
	Reddish Brown silty CLAY, moist	65%		
5		90%	4'-6'	
	Reddish Brown clayey sandy SILT, moist		7.5'-9.5'	
10	▽WT~9.5'	100%		
	Boring Terminated @ 12' BLS			
15				
20				
25				
30				
35				
40				

Soil Boring Log

WINTER ENVIRONMENTAL

Boring ID: SB-30

Project: Fashion Care
Project No: 8096
Location: Immediately east of dry cleaner
Driller: Atlas Geo Sampling
DTW: 10.5' Final Depth: 12'

Elevation:
Date started: 5/8/09
Date Completed: 5/8/09
Field Oversite: Greg Muse

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Concrete 4"			
	Clay fill some gravel	70%	0'-2'	
5	Reddish Brown silty CLAY, moist,wet	100%	4.5'-6.5'	
	Greenish Brown clayey SILT,moist,wet 10.5'	75%	8.5-10.5'	
10	▽ WT~10.5			
	Boring Terminated @ 12' BLS			
15				
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: SB-31

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	5/8/09
Location:	Immediately east of dry cleaner	Date Completed:	5/8/09
Driller:	Atlas Geo Sampling	Field Oversite:	Greg Muse
DTW:	9.5' Final Depth: 12'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Concrete 4"			
	Clay Fill		0'-2'	
	Reddish Brown silty CLAY, moist	65%		
5		90%	4'-6'	
	Reddish Brown clayey sandy SILT, moist		7.5'-9.5'	
10	▽WT~9.5'	100%		
	Boring Terminated @ 12' BLS			
15				
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: SB-32

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	5/8/09
Location:	Immediately east of dry cleaner	Date Completed:	5/8/09
Driller:	Atlas Geo Sampling	Field Oversite:	Greg Muse
DTW:	8' Final Depth: 12'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Concrete			
	Reddish Brown silty Clay, moist	70%	0'-2'	
			3.5'-5.5'	
5		100%	6'-8'	
	▽WT~8 Reddish Brown clayey sandy Silt, moist to wet	95%		
10				
	Boring Terminated @ 25' BLS			
15				
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: SB-33

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	5/8/09
Location:	Immediately east of dry cleaner	Date Completed:	5/8/09
Driller:	Atlas Geo Sampling	Field Oversite:	Greg Muse
DTW:	9' Final Depth: 12'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Concrete			
	Reddish Brown silty CLAY, moist	90%	0'-2'	
5		70%	4'-6'	
	Yellow Brown clayey,sandy SILT moist to wet ▽ WT~9	95%	7'-9'	
10				
	Boring Terminated @ 25' BLS			
15				
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: SB-34

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	5/18/09
Location:	Immediately east of dry cleaner	Date Completed:	5/18/09
Driller:	Atlas Geo Sampling	Field Oversite:	Greg Muse
DTW:	7' Final Depth: 8'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish Brown silty CLAY, moist	70%	0'-2'	
			2.5'-4.5'	
5		80%		
	▽ WT~7 Tan sandy silty CLAY		5'-7'	
	Boring Terminated @ 8' BLS			
10				
15				
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: SB-35

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	5/18/09
Location:	Immediately east of dry cleaner	Date Completed:	5/18/09
Driller:	Atlas Geo Sampling	Field Oversite:	Greg Muse
DTW:	7' Final Depth: 8'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	4" Clay Fill			
	Reddish Brown silty CLAY	70%	0'-2'	
		70%	2.5'-4.5'	
5		70%		
	▽ WT~7		5'-7'	
	Tan to Reddish Brown sandy silty CLAY, moist	70%		
	Boring Terminated @ 8' BLS			
10				
15				
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: SB-36

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	5/18/09
Location:	Immediately east of dry cleaner	Date Completed:	5/18/09
Driller:	Atlas Geo Sampling	Field Oversite:	Greg Muse
DTW:	7' Final Depth: 8'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish Brown silty CLAY,micacous w/ some sandy quartz bands	70%	0'-2'	
		80%	3'-5'	
5	Tan to Reddish Brown sandy silty CLAY, moist			
		70%	6'-8'	
	Boring Terminated @ 8' BLS			
10				
15				
20				
25				
30				
35				
40				

MONITOR WELL LOG - FLUSH MOUNT

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	1300	1400
Date	9/3/08	9/3/08

Well ID	FMW-1
Project No.	08096
Geol./Eng.	Joe King/L. Diprima
Driller	Atlas Geo Sampling

Top cap and lock

Ground surface

Concrete pad and 8 **-inch diameter, flush-mounted manhole**

Drainage gravel

71/4 -inch diameter borehole

Sch 40 PVC **riser pipe material**

2 **-inch diameter riser pipe**

15 **-ft. long riser pipe**

Type Grout

Type 1 A Portland

Type Seal

Pure Gold Bentonite Med Chip

Sch 40 PVC Screen Material

2 **-inch diameter screen**

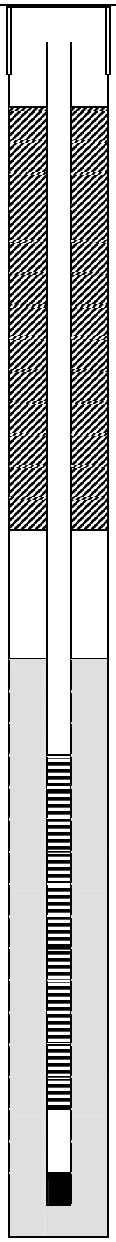
0.010 **-inch screen slot size**

10 **-ft. long screen**

Type Sandpack

Type 1 Filter Sand 20/30 Wash

.5 **-ft. long well plug/point**



Depth to top of riser pipe:
0 **ft. bgs**

Depth to top of grout seal:
.5 **ft. bgs**

Depth to top of seal:
2 **ft. bgs**

Depth to top of sandpack:
13 **ft. bgs**

Depth to top of screen:
15 **ft. bgs**

Depth to bottom of screen:
24.5 **ft. bgs**

Depth to bottom of well plug/point:
25 **ft. bgs**

Depth to bottom of borehole:
25 **ft. bgs**

MONITOR WELL LOG - FLUSH MOUNT

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	1110	1200
Date	9/3/08	9/3/08

Well ID	FMW-2
Project No.	08096
Geol./Eng.	Joe King/L. Diprima
Driller	Atlas Geo Sampling

Top cap and lock

Ground surface

Concrete pad and 8 **-inch diameter, flush-mounted manhole**

Drainage gravel

71/4 -inch diameter borehole

Sch 40 PVC **riser pipe material**

2 **-inch diameter riser pipe**

15 **-ft. long riser pipe**

Type Grout

Type 1 A Portland

Type Seal

Pure Gold Bentonite Med Chip

Sch 40 PVC Screen Material

2 **-inch diameter screen**

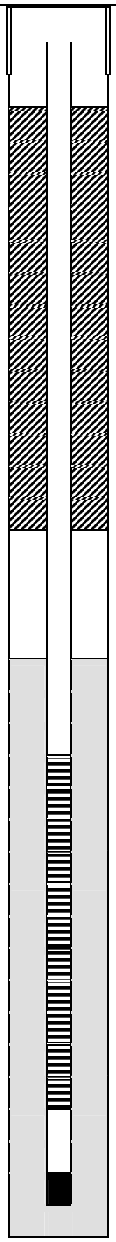
0.010 **-inch screen slot size**

10 **-ft. long screen**

Type Sandpack

Type 1 Filter Sand 20/30 Wash

.5 **-ft. long well plug/point**



Depth to top of riser pipe:
0 **ft. bgs**

Depth to top of grout seal:
.5 **ft. bgs**

Depth to top of seal:
2 **ft. bgs**

Depth to top of sandpack:
11 **ft. bgs**

Depth to top of screen:
13 **ft. bgs**

Depth to bottom of screen:
23 **ft. bgs**

Depth to bottom of well plug/point:
23.5 **ft. bgs**

Depth to bottom of borehole:
24 **ft. bgs**

MONITOR WELL LOG - FLUSH MOUNT

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	0950	1035
Date	9/3/08	9/3/08

Well ID	FMW-3
Project No.	08096
Geol./Eng.	Joe King/L. Diprima
Driller	Atlas Geo Sampling

Top cap and lock

Ground surface

Concrete pad and 8 **-inch diameter, flush-mounted manhole**

Drainage gravel

71/4 -inch diameter borehole

Sch 40 PVC **riser pipe material**

2 **-inch diameter riser pipe**

15 **-ft. long riser pipe**

Type Grout

Type 1 A Portland

Type Seal

Pure Gold Bentonite Med Chip

Sch 40 PVC Screen Material

2 **-inch diameter screen**

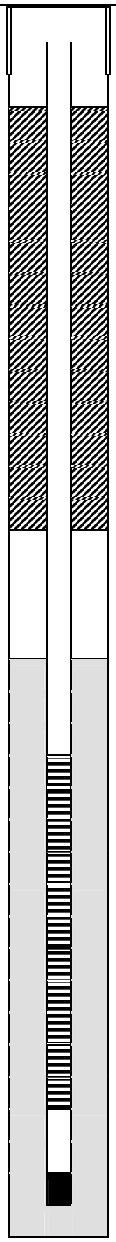
0.010 **-inch screen slot size**

10 **-ft. long screen**

Type Sandpack

Type 1 Filter Sand 20/30 Wash

.5 **-ft. long well plug/point**



Depth to top of riser pipe:
0 **ft. bgs**

Depth to top of grout seal:
.5 **ft. bgs**

Depth to top of seal:
2 **ft. bgs**

Depth to top of sandpack:
8 **ft. bgs**

Depth to top of screen:
10 **ft. bgs**

Depth to bottom of screen:
20 **ft. bgs**

Depth to bottom of well plug/point:
20.5 **ft. bgs**

Depth to bottom of borehole:
20.5 **ft. bgs**

MONITOR WELL LOG - FLUSH MOUNT

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	1000	1150
Date	9/4/08	9/4/08

Well ID	FMW-4
Project No.	08096
Geol./Eng.	Joe King/L. Diprima
Driller	Atlas Geo Sampling

Top cap and lock

Ground surface

Concrete pad and 8 **-inch diameter, flush-mounted manhole**

Drainage gravel

71/4 -inch diameter borehole

Sch 40 PVC **riser pipe material**

2 **-inch diameter riser pipe**

15 **-ft. long riser pipe**

Type Grout

Type 1 A Portland

Type Seal

Pure Gold Bentonite Med Chip

Sch 40 PVC Screen Material

2 **-inch diameter screen**

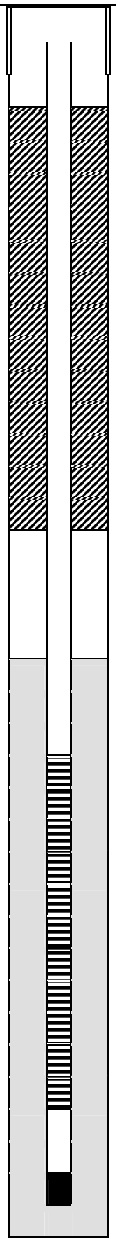
0.010 **-inch screen slot size**

10 **-ft. long screen**

Type Sandpack

Type 1 Filter Sand 20/30 Wash

.5 **-ft. long well plug/point**



Depth to top of riser pipe:
0 **ft. bgs**

Depth to top of grout seal:
.5 **ft. bgs**

Depth to top of seal:
2 **ft. bgs**

Depth to top of sandpack:
8 **ft. bgs**

Depth to top of screen:
10 **ft. bgs**

Depth to bottom of screen:
20 **ft. bgs**

Depth to bottom of well plug/point:
20.5 **ft. bgs**

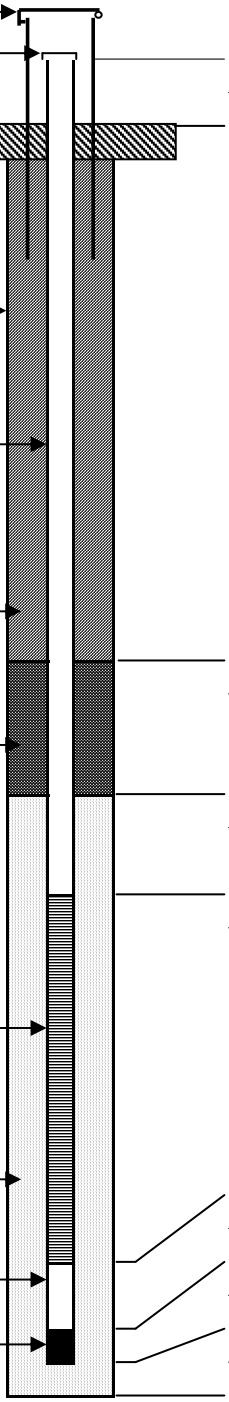
Depth to bottom of borehole:
20.5 **ft. bgs**

MONITOR WELL LOG - STICKUP

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time		
Date	9/4/08	9/4/08

Well ID	FMW-5
Project No. 8096	
Oversight: Joe King/L. Diprima	
Driller: Atlas GEO Sampling	



5 -ft. long protective casing with lock

Top cap

Height of top of riser pipe: 3.3 ft. ags

Ground surface

2 -ft. x 2 -ft. x 2 -ft. concrete pad

and -inch diam. or square protective casing

7¼ -inch diameter borehole

Sch 40 PVC riser pipe material

2 -inch diameter riser pipe

8.3 -ft. long riser pipe

Type 1A Portland type grout

-lb. bags x bags = lbs.

+ type of water

Depth to top of seal: 1.5 ft. bgs

Pure Gold Bentonite Med Chip type seal

-lb. bags or buckets x bags or buckets

= lbs. + type of water

Depth to top of sandpack: 2.5 ft. bgs

Depth to top of screen: 5 ft. bgs

Sch 40 PVC screen material

2 -inch diameter screen

0.010 -inch screen slot size

10 -ft. long screen

Type 1 Filter Sand 20/30 Wash type sandpack

-lb. bags x bags = lbs.

placement

Depth to bottom of screen: 15 ft. bgs

0.25 -ft. long sump

Depth to bottom of sump: 15.25 ft. bgs

0.25 -ft. long well plug/point

Depth to bottom of well plug/point: 15.5 ft. bgs

Depth to bottom of borehole: 15.5 ft. bgs

NOT TO SCALE

MONITOR WELL LOG - STICKUP

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	1545	1710
Date	9/4/08	9/4/08

Well ID	FMW-6
Project No. 8096	
Oversight: Joe King/L. Diprima	
Driller: Atlas GEO Sampling	

5 -ft. long protective casing with lock

Top cap

Height of top of riser pipe: 3.05 ft. ags

Ground surface

2 -ft. x 2 -ft. x 2 -ft. concrete pad

and -inch diam. or square protective casing

7¼ -inch diameter borehole

Sch 40 PVC riser pipe material

2 -inch diameter riser pipe

8.55 -ft. long riser pipe

Type 1A Portland type grout

-lb. bags x bags = lbs.

+ type of water

Depth to top of seal: 1 ft. bgs

Pure Gold Bentonite Med Chip type seal

-lb. bags or buckets x bags or buckets

= lbs. + type of water

Depth to top of sandpack: 3 ft. bgs

Depth to top of screen: 5.5 ft. bgs

Sch 40 PVC screen material

2 -inch diameter screen

0.010 -inch screen slot size

10 -ft. long screen

Type 1 Filter Sand 20/30 Wash type sandpack

-lb. bags x bags = lbs.

placement

Depth to bottom of screen: 15.5 ft. bgs

0.25 -ft. long sump

Depth to bottom of sump: 15.75 ft. bgs

0.25 -ft. long well plug/point

Depth to bottom of well plug/point: 16 ft. bgs

Depth to bottom of borehole: 16 ft. bgs

NOT TO SCALE

MONITOR WELL LOG - FLUSH MOUNT

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	0845	0940
Date	11/25/08	11/25/08

Well ID	FMW-7
Project No.	08096
Geol./Eng.	Joe King/L. Diprima
Driller	Atlas Geo Sampling

Top cap and lock

Ground surface

Concrete pad and 8 **-inch diameter, flush-mounted manhole**

Drainage gravel

71/4 -inch diameter borehole

Sch 40 PVC **riser pipe material**

2 **-inch diameter riser pipe**

10 **-ft. long riser pipe**

Type Grout

Type 1 A Portland

Type Seal

Pure Gold Bentonite Med Chip

Sch 40 PVC Screen Material

2 **-inch diameter screen**

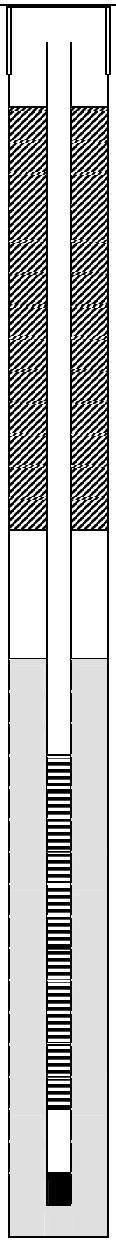
0.010 **-inch screen slot size**

10 **-ft. long screen**

Type Sandpack

Type 1 Filter Sand 20/30 Wash

.5 **-ft. long well plug/point**



Depth to top of riser pipe: 0 **ft. bgs**

Depth to top of grout seal: .5 **ft. bgs**

Depth to top of seal: 1,5 **ft. bgs**

Depth to top of sandpack: 6 **ft. bgs**

Depth to top of screen: 8 **ft. bgs**

Depth to bottom of screen: 17.5 **ft. bgs**

Depth to bottom of well plug/point: 18 **ft. bgs**

Depth to bottom of borehole: 18 **ft. bgs**

MONITOR WELL LOG - FLUSH MOUNT

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	1020	1120
Date	11/25/08	11/25/08

Well ID	FMW-8
Project No.	08096
Geol./Eng.	Joe King/L. Dprima
Driller	Atlas Geo Sampling

Top cap and lock

Ground surface

Concrete pad and 8 **-inch diameter, flush-mounted manhole**

Drainage gravel

71/4 -inch diameter borehole

Sch 40 PVC **riser pipe material**

2 **-inch diameter riser pipe**

10 **-ft. long riser pipe**

Type Grout

Type 1 A Portland

Type Seal

Pure Gold Bentonite Med Chip

Sch 40 PVC Screen Material

2 **-inch diameter screen**

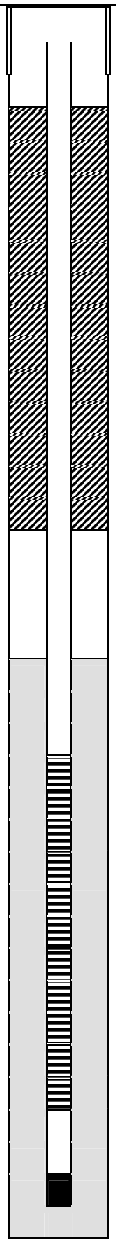
0.010 **-inch screen slot size**

10 **-ft. long screen**

Type Sandpack

Type 1 Filter Sand 20/30 Wash

.5 **-ft. long well plug/point**



Depth to top of riser pipe: 0 **ft. bgs**

Depth to top of grout seal: 1 **ft. bgs**

Depth to top of seal: 2 **ft. bgs**

Depth to top of sandpack: 8 **ft. bgs**

Depth to top of screen: 10 **ft. bgs**

Depth to bottom of screen: 19.5 **ft. bgs**

Depth to bottom of well plug/point: 20 **ft. bgs**

Depth to bottom of borehole: 20 **ft. bgs**

MONITOR WELL LOG - STICKUP

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	1400	1445
Date	11/25/08	11/25/08

Well ID	FMW-9
Project No. 8096	
Oversight: Joe King/L. Diprima	
Driller: Atlas GEO Sampling	

5 -ft. long protective casing with lock

Top cap

Height of top of riser pipe: 3.7 ft. ags

Ground surface

2 -ft. x 2 -ft. x 2 -ft. concrete pad

and -inch diam. or square protective casing

7¼ -inch diameter borehole

Sch 40 PVC riser pipe material

2 -inch diameter riser pipe

9.7 -ft. long riser pipe

Type 1A Portland type grout

-lb. bags x bags = lbs.

+ type of water

Depth to top of seal: 1 ft. bgs

Pure Gold Bentonite Med Chip type seal

-lb. bags or buckets x bags or buckets

= lbs. + type of water

Depth to top of sandpack: 3 ft. bgs

Depth to top of screen: 6 ft. bgs

Sch 40 PVC screen material

2 -inch diameter screen

0.010 -inch screen slot size

10 -ft. long screen

Type 1 Filter Sand 20/30 Wash type sandpack

-lb. bags x bags = lbs.

placement

Depth to bottom of screen: 16 ft. bgs

0.25 -ft. long sump

Depth to bottom of sump: 16.25 ft. bgs

0.25 -ft. long well plug/point

Depth to bottom of well plug/point: 16.5 ft. bgs

Depth to bottom of borehole: 16.5 ft. bgs

NOT TO SCALE

MONITOR WELL LOG - STICKUP

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	1400	1445
Date	11/25/08	11/25/08

Well ID	FMW-10
Project No. 8096	
Oversight: Joe King/L. Diprima	
Driller: Atlas GEO Sampling	

5 -ft. long protective casing with lock

Top cap

Height of top of riser pipe: 3.7 ft. ags

Ground surface

2 -ft. x 2 -ft. x 2 -ft. concrete pad

and -inch diam. or square protective casing

7¼ -inch diameter borehole

Sch 40 PVC riser pipe material

2 -inch diameter riser pipe

9.7 -ft. long riser pipe

Type 1A Portland type grout

-lb. bags x bags = lbs.

+ type of water

Depth to top of seal: 1 ft. bgs

Pure Gold Bentonite Med Chip type seal

-lb. bags or buckets x bags or buckets

= lbs. + type of water

Depth to top of sandpack: 3 ft. bgs

Depth to top of screen: 6 ft. bgs

Sch 40 PVC screen material

2 -inch diameter screen

0.010 -inch screen slot size

10 -ft. long screen

Type 1 Filter Sand 20/30 Wash type sandpack

-lb. bags x bags = lbs.

placement

Depth to bottom of screen: 16 ft. bgs

Depth to bottom of sump: 16.25 ft. bgs

0.25 -ft. long sump

Depth to bottom of well plug/point: 16.5 ft. bgs

0.25 -ft. long well plug/point

Depth to bottom of borehole: 16.5 ft. bgs

NOT TO SCALE

MONITOR WELL LOG - STICKUP

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	1500	1600
Date	11/25/08	11/25/08

Well ID	FMW-11
Project No. 8096	
Oversight: Joe King/L. Diprima	
Driller: Atlas GEO Sampling	

5 -ft. long protective casing with lock

Top cap

Height of top of riser pipe: 1.69 ft. ags

Ground surface

2 -ft. x 2 -ft. x 2 -ft. concrete pad

and -inch diam. or square protective casing

7¼ -inch diameter borehole

Sch 40 PVC riser pipe material

2 -inch diameter riser pipe

7.69 -ft. long riser pipe

Type 1A Portland type grout

-lb. bags x bags = lbs.

+ type of water

Depth to top of seal: 1 ft. bgs

Pure Gold Bentonite Med Chip type seal

-lb. bags or buckets x bags or buckets

= lbs. + type of water

Depth to top of sandpack: 2 ft. bgs

Depth to top of screen: 6 ft. bgs

Sch 40 PVC screen material

2 -inch diameter screen

0.010 -inch screen slot size

10 -ft. long screen

Type 1 Filter Sand 20/30 Wash type sandpack

-lb. bags x bags = lbs.

placement

Depth to bottom of screen: 16 ft. bgs

Depth to bottom of sump: 16.25 ft. bgs

0.25 -ft. long sump

Depth to bottom of well plug/point: 16.5 ft. bgs

0.25 -ft. long well plug/point

Depth to bottom of borehole: 16.5 ft. bgs

NOT TO SCALE

MONITORING WELL

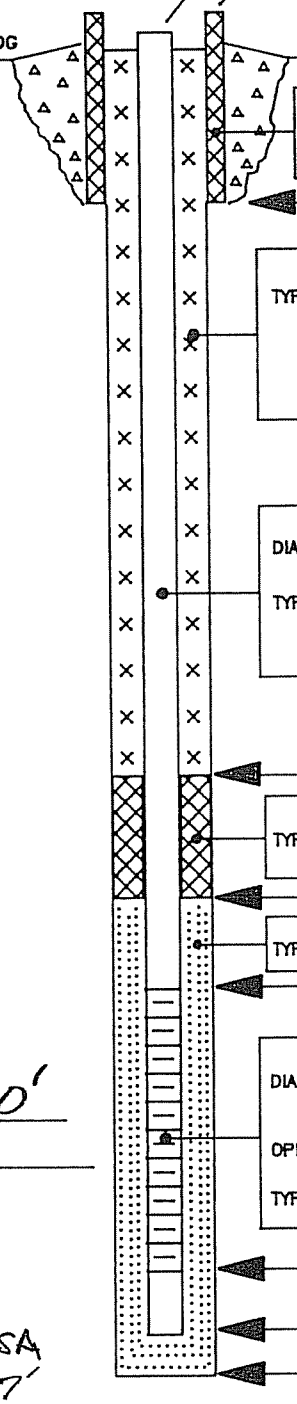
PROJECT	Fashion Care
WELL NO.	FMW-12
SITE	08096
LOCATION	2211 Savoy Dr. Chamblee, GA
BEGUN	3-17-10
COMPLETED	3-17-10
CONSTRUCTED BY	Atlas

ELEV.–TOP OF RISER CASING: Stick-up

ELEV.–TOP OF SURFACE CASING: _____

GENERALIZED GEOLOGIC LOG

See Geologic Log



	DEPTH	ELEV.
GROUND SURFACE		
BOTTOM OF SURFACE CASING		
TOP OF SEAL	2.0	
BOTTOM OF SEAL	4.5	
TOP OF SCREEN	5.5	
BOTTOM OF SCREEN	15.5	
BOTTOM OF SUMP	16.0	
BOTTOM OF HOLE	16.0	

SURFACE CASING
DIA.: 4" Square
TYPE: Stick-up/Aluminum

SURFACE PLUG
TYPE: Bentonite-Portland

RISER CASING
DIA.: 2" ID
TYPE: PVC

ANNULAR SEAL
TYPE: PureGold Bentonite Med. Chips

FILTER PACK
TYPE: Silica Sand

SCREEN
DIA.: 2" ID TYPE: PVC-Slot
OPENING WIDTH: 0.010"
TYPE:

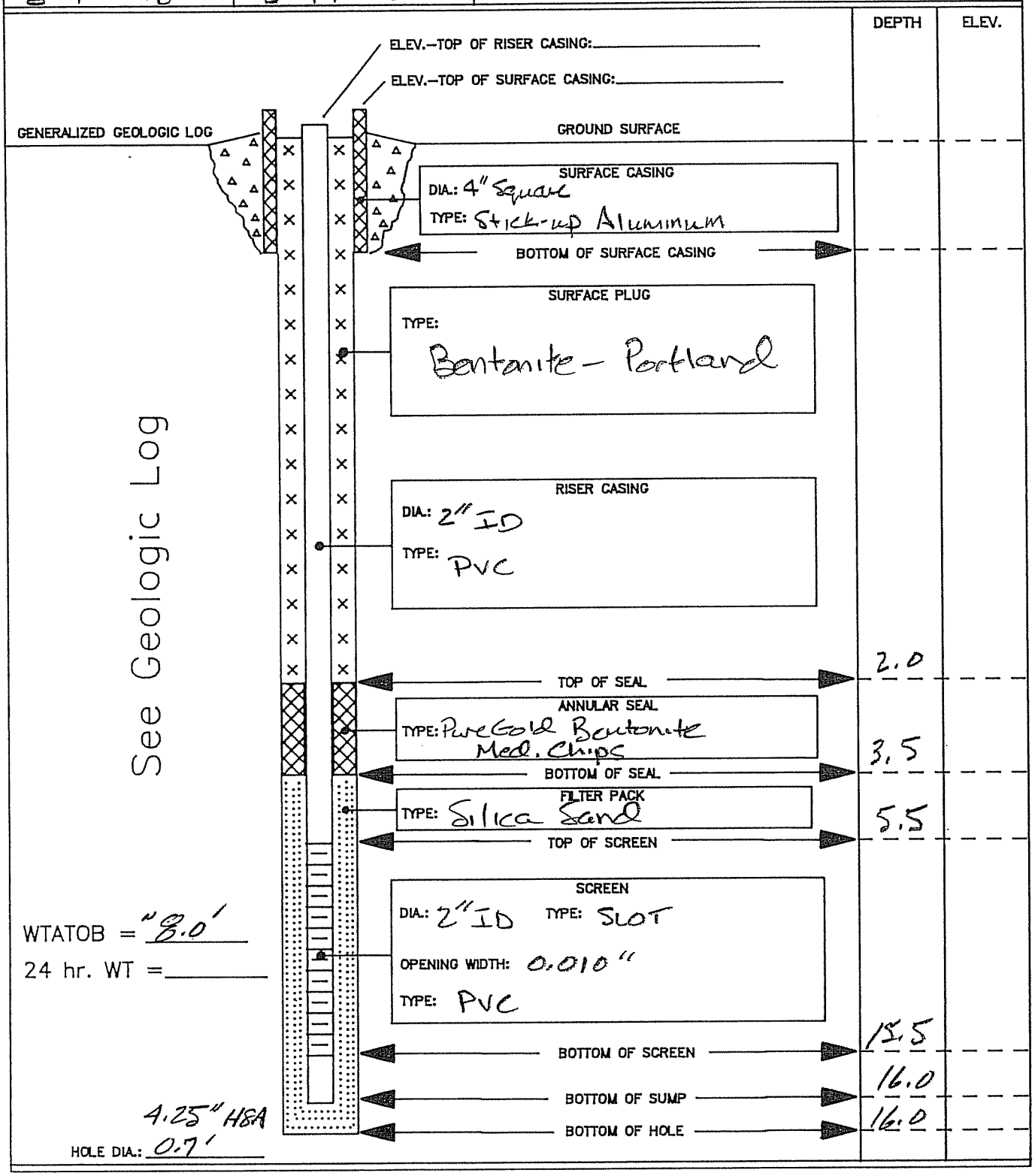
WTATOB = 9.0'

24 hr. WT = _____

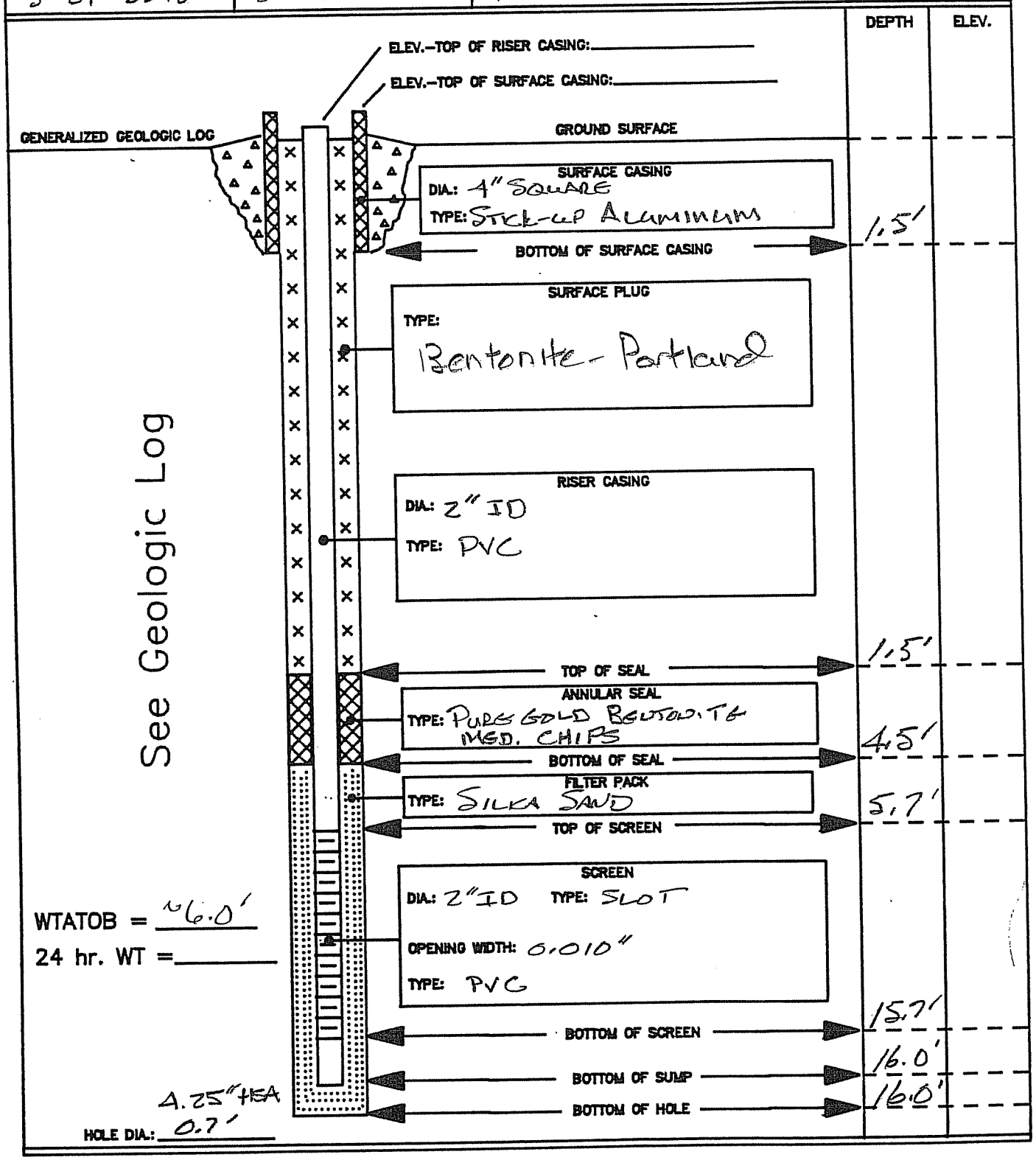
4.25" HSA

HOLE DIA.: 0.7'

MONITORING WELL	PROJECT Fashion Cars	WELL NO. FMW-13
SITE 08096	LOCATION 2211 Savoy Dr, Chamblee, GA	
BEGUN 3-17-10	COMPLETED 3-17-10	CONSTRUCTED BY ATLAS



MONITORING WELL	PROJECT Fashion Cars	WELL NO. FMW-14
SITE 08096	LOCATION 2211 Savoy Dr., Chamblee, GA	
BEGUN 5-27-2010	COMPLETED 5-27-2010	CONSTRUCTED BY ATLAS



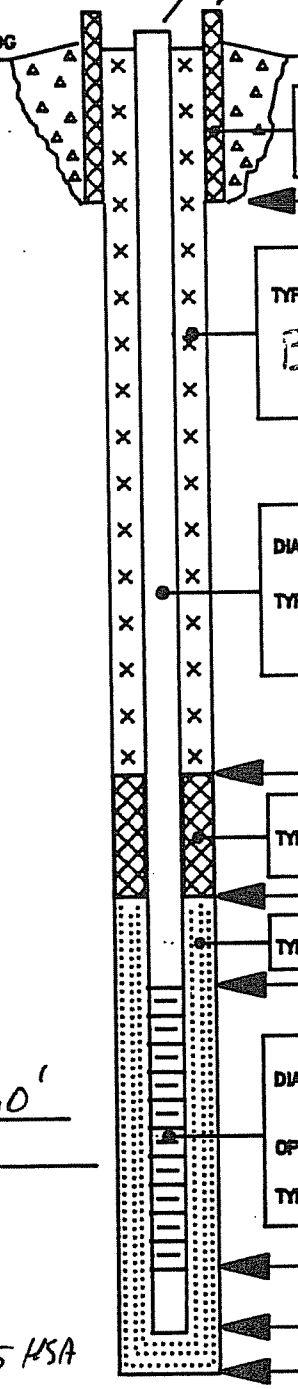
MONITORING WELL	PROJECT Fashion Care	WELL NO. FMW-15
SITE 08096	LOCATION 2211 Savoy Dr, Chamblee, GA	
BEGUN 6-15-10	COMPLETED 6-15-10	CONSTRUCTED BY Atlas

ELEV.–TOP OF RISER CASING: _____

ELEV.–TOP OF SURFACE CASING: _____

GENERALIZED GEOLOGIC LOG

See Geologic Log



	DEPTH	ELEV.
GROUND SURFACE		
SURFACE CASING — DIA.: 4" Square; TYPE: Stickup Aluminum		
BOTTOM OF SURFACE CASING		
SURFACE PLUG — TYPE: Bentonite Portland		
RISER CASING — DIA.: 2" ID; TYPE: PVC		
TOP OF SEAL	2.0	
ANNULAR SEAL — TYPE: Bentonite Chips - Medium		
BOTTOM OF SEAL	3.5	
FILTER PACK — TYPE: Silica Sand		
TOP OF SCREEN	4.5	
SCREEN — DIA.: 2" ID; TYPE: Slot; OPENING WIDTH: 0.016"; TYPE: PVC		
BOTTOM OF SCREEN	9.5	
BOTTOM OF SUMP	10.0	
BOTTOM OF HOLE		

WTATOB = ~5.0'

24 hr. WT = _____

4.25 HSA

HOLE DIA.: _____

MONITORING WELL

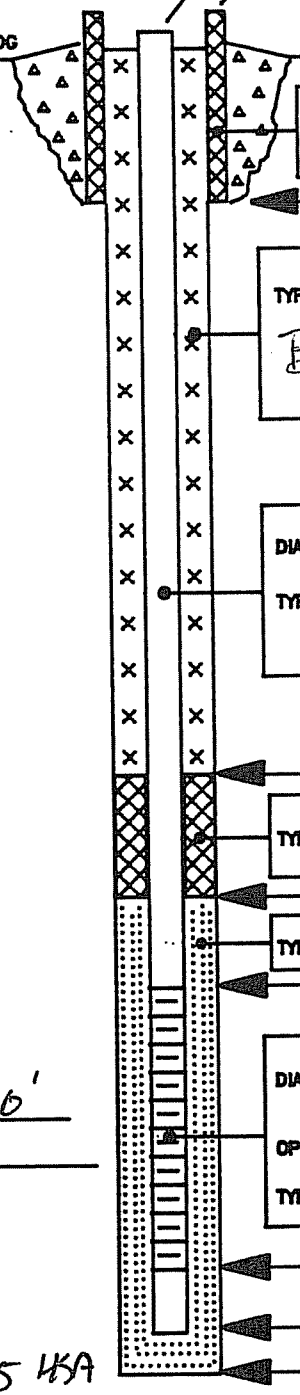
PROJECT: Fashion Care		WELL NO.: FMW-16
SITE: 08096	LOCATION: 2211 Savoy Dr, Chamblee, GA	
BEGUN: 6-15-10	COMPLETED: 6-15-10	CONSTRUCTED BY: Atlas

ELEV.–TOP OF RISER CASING: _____

ELEV.–TOP OF SURFACE CASING: _____

GENERALIZED GEOLOGIC LOG

See Geologic Log



	DEPTH	ELEV.
GROUND SURFACE		
SURFACE CASING — DIA.: 4" Square; TYPE: Stick-up Aluminum		
BOTTOM OF SURFACE CASING		
SURFACE PLUG — TYPE: Bentonite-Portland		
RISER CASING — DIA.: 2" ID; TYPE: PVC		
TOP OF SEAL	2.5	
ANNULAR SEAL — TYPE: Bentonite Chips - Med		
BOTTOM OF SEAL	4.5	
FILTER PACK — TYPE: Silica Sand		
TOP OF SCREEN	6.5	
SCREEN — DIA.: 2" ID; TYPE: Slot; OPENING WIDTH: 0.010"; TYPE: PVC		
BOTTOM OF SCREEN	11.5	
BOTTOM OF SUMP	12.0	
BOTTOM OF HOLE		

WTATOB = ~6.0'

24 hr. WT = _____

HOLE DIA.: 4.25 HSA

CORRECTIVE ACTION PLAN – PART B

For:

Shell Food Mart (Former E-Z Serve #8102)
4308 North Peachtree Road
Chamblee, Dekalb County, Georgia 30341-1210
Facility ID: 9000341*1

SECOR International Incorporated
20 Mansell Court East, Suite 275
Roswell, Georgia 30076

December 5, 2007

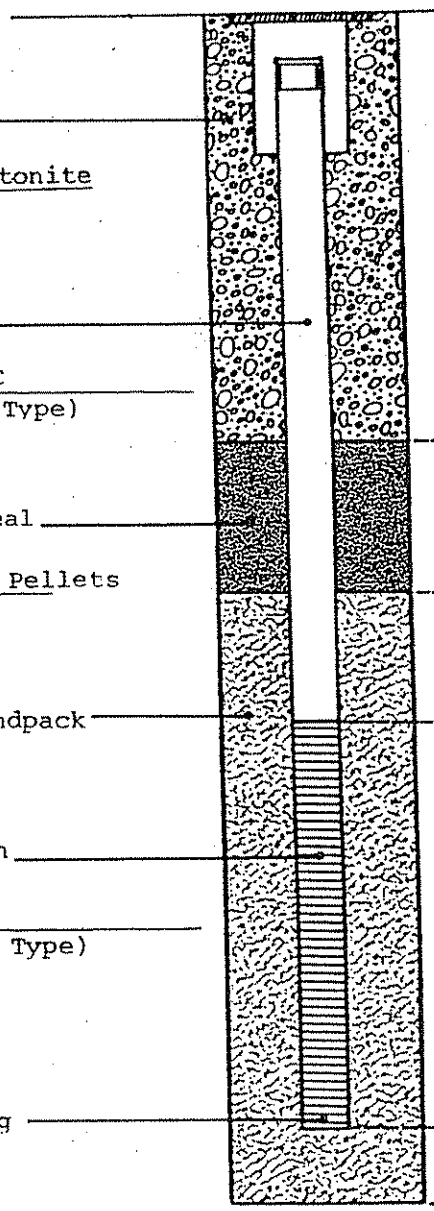
APPENDIX IV
SOIL BORING LOGS AND MONITORING WELL CONSTRUCTION DIAGRAMS

Shell Food Mart (Former E-Z Serve #8102)
4308 North Peachtree Road
Chamblee, Dekalb, County
Facility ID: 9000341*1

MONITORING WELL CONSTRUCTION

WELL NO. MW-1
DATE COMPLETED 2-6-89
PROJECT NO. 32-97015
STORE NO. #10209

BORING DIAMETER 8" Ø
I.D. CASING 2" Ø
LENGTH OF SCREEN 15 feet
SCREEN OPENING SIZE 0.010 inch



Grout

Cement-Bentonite
(Type)

Casing

2" Ø PVC
(Size & Type)

Bentonite Seal

1/2" Bentonite Pellets
(Type)

Sandpack

Screen

2" Ø PVC
(Size & Type)

Threaded Plug

Depth to Top of Bentonite Seal 6.5 feet

Depth to Top of Sand 8.5 feet

Depth to Top of Screen 10.5 feet

GROUNDWATER DEPTH 12.58

Depth to Bottom of Screen 25.5

Total Depth 26.0 feet

NOTE: All Depths Referenced From Ground Surface

LEGEND

SCALE: NOT TO SCALE

ATEC Associates, Inc.

PROJECT
TOC RETAIL
4308 N. PEACHTREE ROAD
CHAMBLEE, GEORGIA
ATEC PROJECT NUMBER 32-97015

Westinghouse
Environmental Services

SUBSURFACE DRILL LOG

DEPTH FEET	SOIL/MATERIAL DESCRIPTION (SURFACE ELEVATION _____)	SAMPLE	SPT BLOWS	RECOV.	WATER	SCREEN	REMARKS
	Fill: Clay, tan and gray, stiff, fine sandy, slightly silty, some gravel present, dry						HNU Readings
		1	6-18 -20	60%			40ppm
5	Residuum: Silt, light brown, slightly clayey, micaceous, moist						
		2	6-9 -8	70%			40ppm
10							
		3	8-6 -8	60%			10ppm
15							
	Boring complete at 18.6 Feet						
20							

DRILLING & SAMPLING MEETS ASTM D-1586 & ASTM D-1587

PAGE 1 OF 1

SUPERVISOR N Jarrio

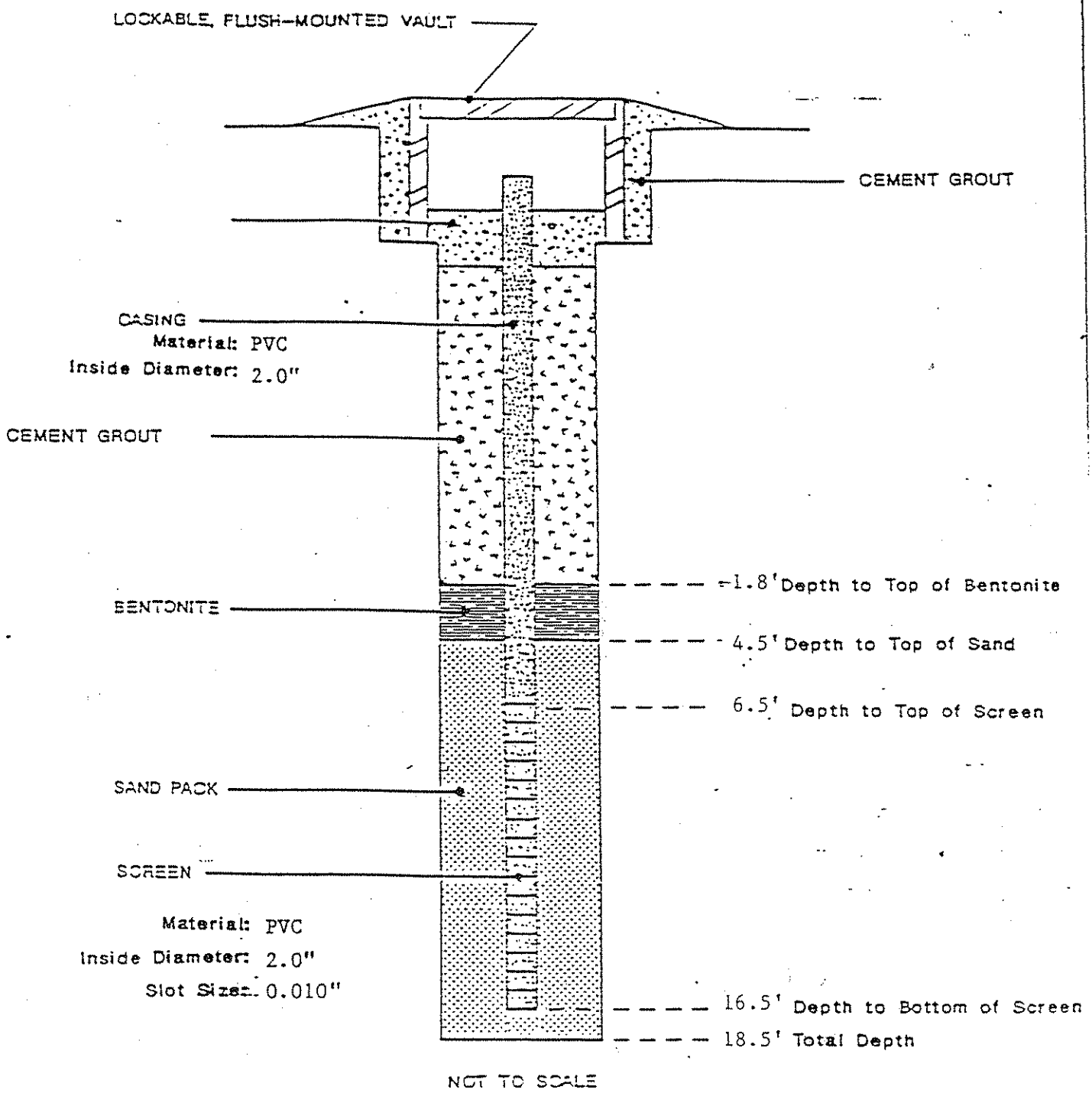
LOCATION NO. MW-2 (102-09)

RIG TYPE B-57

DATE DRILLED 3-13-89

WEATHER windy, cool, 60°

JOB NO. 0000-89-097



All Depths Referenced From Ground Surface

Westinghouse
Environmental Services

Well Schematic
Monitor Well MW-2
Tenneco Facility No. 102-09
Chamblee, Georgia
WGR Job. No. 0000-89-097

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-2R** PAGE 1 OF 2 SECOR
DRILLING: STARTED **12/14/06** COMPLETED: **12/14/06** INSTALLATION: STARTED **12/14/06** COMPLETED: **12/14/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **26.0** WELL CASING DIAMETER (in): **2** BOREHOLE DIAMETER (in): **8** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML	**SILT** ; ML; 5YR 5/8 yellowish red; non plastic; soft; dry; no odor		MW-2R@ 2-3'	5		1.3		2 inch diameter PVC blank casing; Bentonite chips seal
5							4 4 4 5		5	
		SW-SM	**SAND WITH SILT AND GRAVEL** ; SW-SM; 5YR 5/8 yellowish red; loose; dry; no odor; well graded; trace mica chips		1030 MW-2R	2		2.3		
10		ML	**SILT** ; ML; 10R 4/6 red; non plastic; soft; moist; no odor		MW-2R@ 10-11'	2	2 3 4 4	1.1	10	10/30 silica sand pack
15		ML	**SILT** ; ML; 5YR 2.5/1 black; non plastic; soft; moist; no odor; laminated; vertical micro fractures and mica chips		MW-2R@ 15-16'	2	2 3 4 5	1.1	15	2 inch diameter PVC 0.010 inch slotted screen
		ML	**SILT** ; ML; 7.5YR 6/8 AND 7.5YR 2.5/1 reddish yellow with black; non plastic; dry; no odor; trace mica chips				11 28			

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-2R** PAGE 2 OF 2 SECOR
DRILLING: STARTED **12/14/06** COMPLETED: **12/14/06** INSTALLATION: STARTED **12/14/06** COMPLETED: **12/14/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **26.0** WELL CASING DIAMETER (in): **2** BOREHOLE DIAMETER (in): **8** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML			- MW-2R@ 20-21'	2	15 12	1.1		2 inch diameter PVC pipe cap; 10/30 silica sand pack
25					- MW-2R@ 25-26'	2	6 6 9 10	1.6	25	
			Hole terminated at 26 feet.							
30									30	
35									35	

GEO FORM 304 GUST1.GPJ SECOR INTL.GDT 10/16/07

Westinghouse Environmental Services

SUBSURFACE DRILL LOG

DEPTH FEET	SOIL/MATERIAL DESCRIPTION (SURFACE ELEVATION ____)	SAMPLE	SPT BLOWS	RECOV.	WATER	SCREEN	REMARKS
	Fill: Clay, red-brown, stiff, very silty, micaceous, moist						HNU Reading
5		1	9-7-8	100%			6 ppm
	Clay, tan and gray, stiff, fine sandy, slightly silty, some gravel present, moist						
10		2	3-3-3	100%			70 ppm
	Residuum: Silt, light brown, slightly clayey, micaceous, moist	3	5-10-11	100%			45ppm
15							
	Boring complete at 18.6 feet						
20							

DRILLING & SAMPLING MEETS ASTM D-1586 & ASTM D-1587

PAGE 1 OF 1

SUPERVISOR N. Jarrio

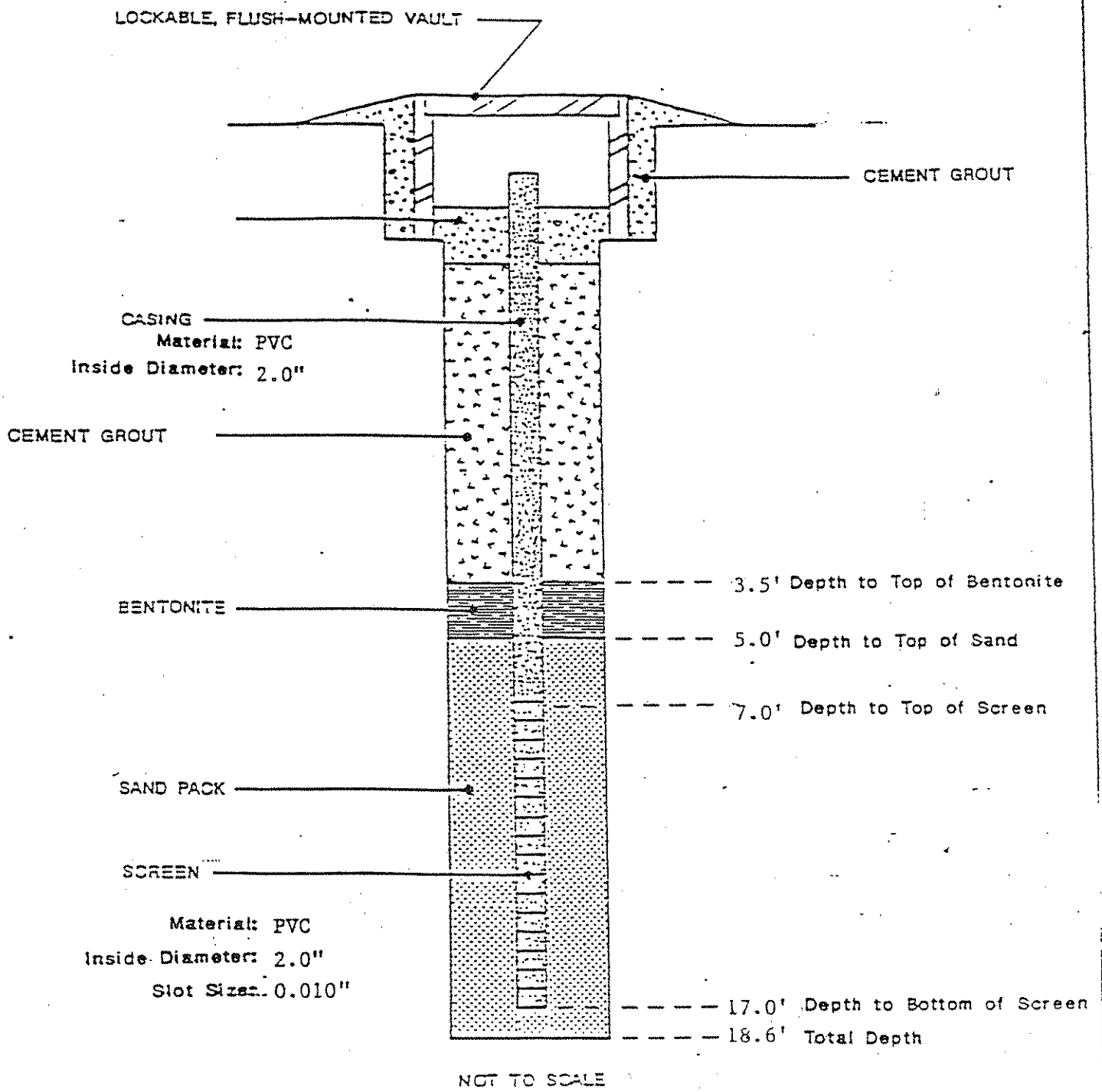
RIG TYPE B-57

WEATHER Windy, Cool, 60°

LOCATION NO. MW-3 (102-09)

DATE DRILLED 3-13-89

JOB NO. 0000-89-097



All Depths Referenced From Ground Surface

Westinghouse
Environmental Services

Well Schematic
Monitor Well MW-3
Tenneco Facility No. 102-09
Chamblee, Georgia
WGR Job No. 000-89-097

Westinghouse Environmental Services

SUBSURFACE DRILL LOG

DEPTH FEET	SOIL/MATERIAL DESCRIPTION (SURFACE ELEVATION _____)	SAMPLE	SPT BLOWS	RECOV.	WATER	SCREEN	REMARKS
	Fill: Clay, Red-Brown, very silty, micaceous, moist						HNU Readings
5		1	2-2-3	100%			65 ppm
	Clay, Tan and gray, stiff, fine sandy, slightly silty, some gravel present, moist						
10		2	2-4-5	100%			35ppm
15	Residuum: Sand, coarse, brown, slightly silty, micaceous, moist	3	3-4-7	100 %			10 ppm
20	Boring complete at 17.6 Feet						

DRILLING & SAMPLING MEETS ASTM D-1586 & ASTM D-1587

PAGE 1 OF 1

SUPERVISOR N. JARRIO

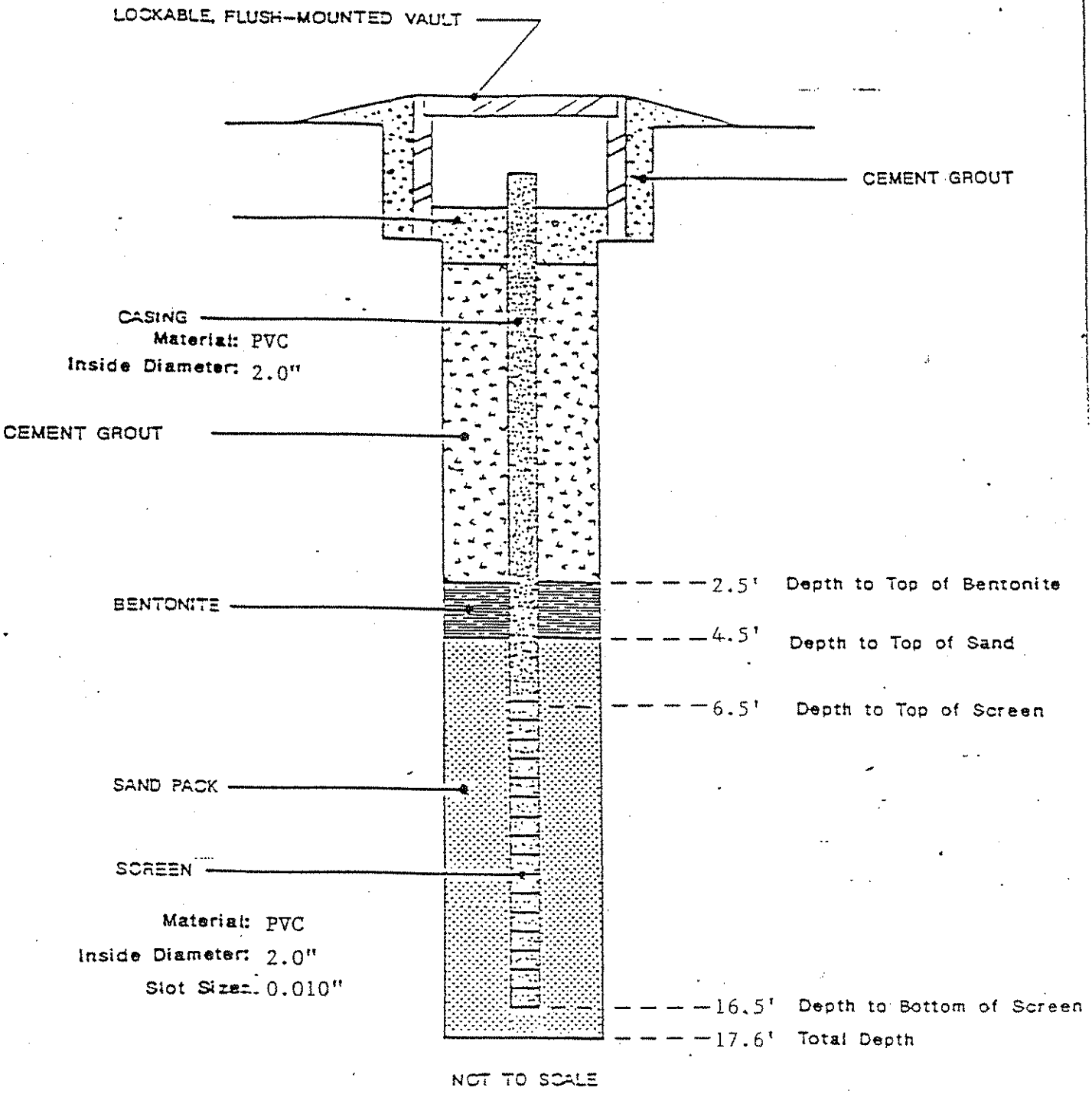
LOCATION NO. MW-4 (102-09)

RIG TYPE B-57

DATE DRILLED 3-13-89

WEATHER Windy,cool, 60°

JOB NO. 0000-89-097



All Depths Referenced From Ground Surface

Westinghouse
Environmental Services

Well Schematic
Monitor Well MW-4
Tenneco Facility No. 102-09
Chamblee, Georgia
WGR Job No. 0000-89-097

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-4R** PAGE 1 OF 2 SECOR
DRILLING: STARTED **12/14/06** COMPLETED: **12/14/06** INSTALLATION: STARTED **12/14/06** COMPLETED: **12/14/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **23.0** WELL CASING DIAMETER (in): **2** BOREHOLE DIAMETER (in): **8** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML	**SILT WITH SAND** ; ML; 7.5YR 6/1 gray; non plastic; soft; moist; no odor; poorly graded		MW-4R@ 2-3'	5		15.5		2 inch diameter PVC blank casing; Bentonite chips seal
5		ML	**SILT TRACE MICA** ; ML; 10YR 4/4 yellowish brown; low plasticity; soft; moist; slight odor		MW-4R@ 6-7'	2	1 2 2 2	20.7	5	
10		ML	**SILT TRACE MICA** ; ML; GLEY 10Y 5/1 gray; low plasticity; soft; moist; slight odor		1245 MW-4R	2	2 3 2 3	42.2	10	10/30 silica sand pack
15		ML	**SILT** ; ML; GLEY 1 7/N AND 10YR 5/8 light gray with yellowish brown; non plastic; soft; moist; no odor; wet at 16'-20', some coarse to medium angular gravel at 19'-20'		MW-4R@ 15-16'	2	2 3 3 3	2.8	15	2 inch diameter PVC 0.010 inch slotted screen
							6 6			

PROJECT: **EZ Serve North Peachtree**
LOCATION: **Chamblee, GA**
PROJECT NUMBER: **21OT.06203.05**

WELL / PROBEHOLE / BOREHOLE NO: **MW-4R** PAGE 2 OF 2

SECOR

DRILLING: STARTED **12/14/06** COMPLETED: **12/14/06**
INSTALLATION: STARTED **12/14/06** COMPLETED: **12/14/06**
DRILLING COMPANY: **Betts**
DRILLING EQUIPMENT: **Diedrick 120**
DRILLING METHOD: **Hollow Stem Auger**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft):
EASTING (ft):
LATITUDE:
LONGITUDE:
GROUND ELEV (ft):
TOC ELEV (ft):
INITIAL DTW (ft): **NE**
BOREHOLE DEPTH (ft): **23.0**
STATIC DTW (ft): **NE**
WELL DEPTH (ft): **23.0**
WELL CASING DIAMETER (in): **2**
BOREHOLE DIAMETER (in): **8**
LOGGED BY: **C. Beall**
CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML	**SILT** ; ML; 5YR 5/8 yellowish red; non plastic; hard; dry; no odor		- MW-4R@ 20-21'	.7	9 12	3.6		
			Hole terminated at 23 feet.							2 inch diameter PVC pipe cap
25									25	
30									30	
35									35	

GEO FORM 304 GUST1.GPJ SECOR INTL.GDT 10/16/07

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-10R** PAGE 1 OF 2 SECOR
DRILLING: STARTED **12/13/06** COMPLETED: **12/13/06** INSTALLATION: STARTED **12/13/06** COMPLETED: **12/13/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **23.0** WELL CASING DIAMETER (in): **4** BOREHOLE DIAMETER (in): **11** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML	**SILT TRACE FINE SAND** ; ML; 2.5YR 4/8 red; non plastic; soft; dry; slight odor		- MW-10R@ 2-3'	5				4 inch diameter PVC blank casing; Bentonite chips seal
5									5	
		ML	**SANDY SILT WITH MICA** ; ML; 7.5YR 5/8 brown; non plastic; stiff; dry; slight odor		- MW-10R@ 6-7'	2	1 1 1 2	76.8		
		CL	**CLAY** ; CL; 7.5YR 5/1 gray; high plasticity; soft; moist; strong odor; hydrocarbon staining		0845 MW-10R	2	1 1 2 2	228		
10									10	10/30 silica sand pack
		ML	**SANDY SILT** ; ML; 7.5YR 5/1 gray; low plasticity; soft; moist; slight odor		- MW-10R@ 15-16'	2	2 2 3 2	86.8		
15									15	4 inch diameter PVC 0.010 inch slotted screen
		ML	**SILT** ; ML; 7.5YR 8/3 AND 7.5YR 6/8 WITH 7.5YR 2.5/1 pink and reddish yellow; low plasticity; soft; moist; slight odor; with fractures				2 2			

PROJECT: **EZ Serve North Peachtree**
LOCATION: **Chamblee, GA**
PROJECT NUMBER: **21OT.06203.05**

WELL / PROBEHOLE / BOREHOLE NO:
MW-10R PAGE 2 OF 2

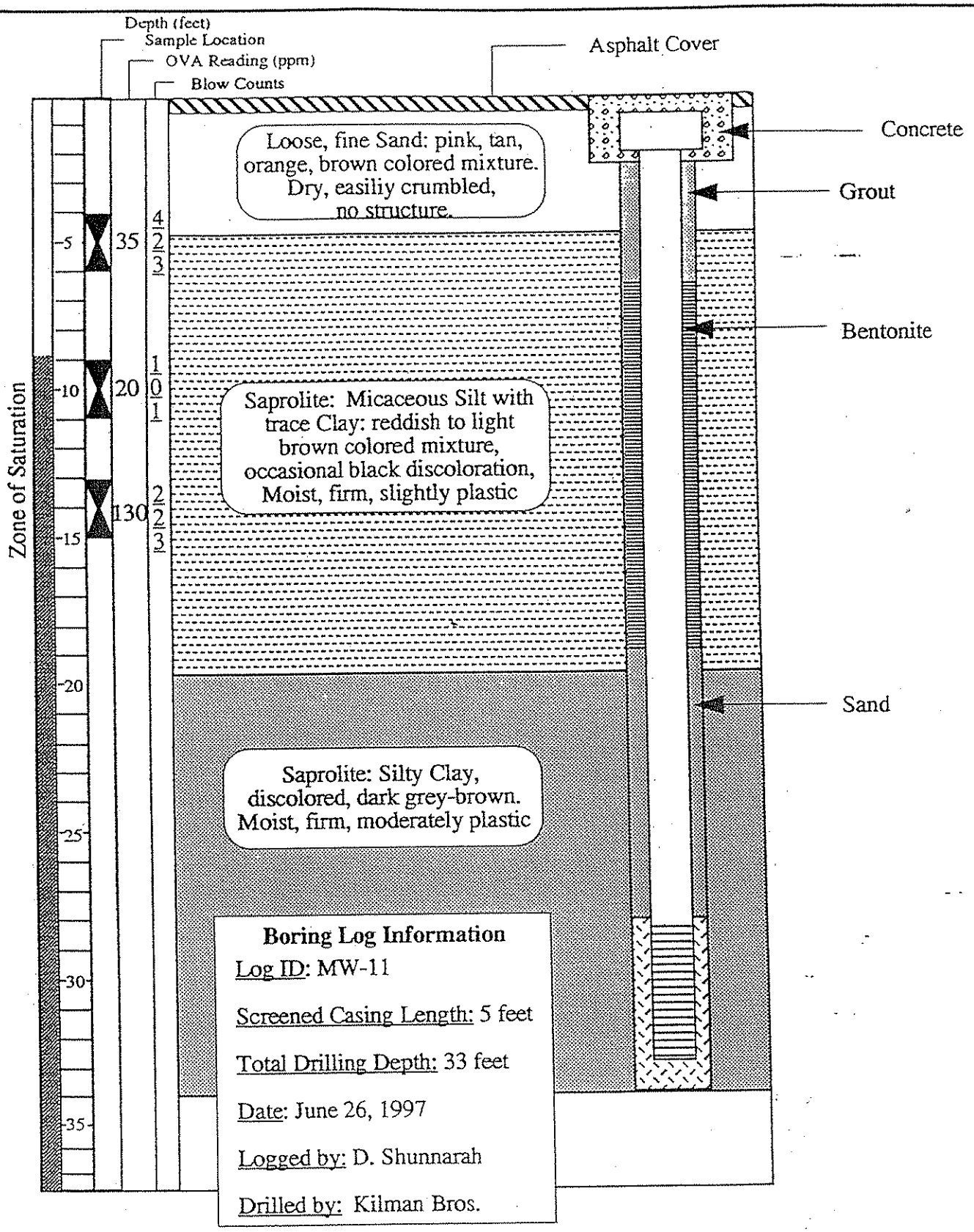
SECOR

DRILLING: STARTED **12/13/06** COMPLETED: **12/13/06**
INSTALLATION: STARTED **12/13/06** COMPLETED: **12/13/06**
DRILLING COMPANY: **Betts**
DRILLING EQUIPMENT: **Diedrick 120**
DRILLING METHOD: **Hollow Stem Auger**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft):
LATITUDE:
GROUND ELEV (ft):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
WELL CASING DIAMETER (in): **4**
LOGGED BY: **C. Beall**

EASTING (ft):
LONGITUDE:
TOC ELEV (ft):
BOREHOLE DEPTH (ft): **23.0**
WELL DEPTH (ft): **23.0**
BOREHOLE DIAMETER (in): **11**
CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML			- MW-10R@ 20-21'	2	3 4	26.7		
			Hole terminated at 23 feet.							4 inch diameter PVC pipe cap
25									25	
30									30	
35									35	



Note: Auger refusal at 33 feet.

E-Z Serve Convenience Stores, Inc.	Facility #: 8102 GA EPD #: 9000341	**Monitor Well Installation**
)8 North Peachtree Road, Chamblee, Georgia	Drafted by: D. Shunnarah	**Date:** July 29, 1997
ESCM Technology, Inc. 1781 Mars Hill Road	Proprietary Drawing - Property of ESCM	**MW-11**

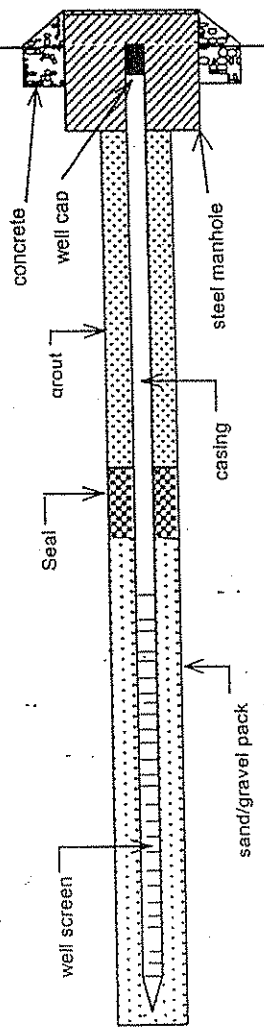
WELL LOG: MW-12

Handex

rmit #		Drill Date	01/09/02	Site	EZ-Serve 8102
Client	*EZ-Serve*	Use	**Monitoring Well**	Handex Loc. #	121415
Site Address	**4308 North Peachtree Road**			Total Depth (ft)	20
Drilling Method	**Hollow Stem**	Boring Depth (ft)	21	Boring Diam. (in)	8.25
Casing/Scrn. Mat	**Sch -40 PVC**	Csg/Scrn Diam (in)	2	Csg Length(ft)	5
Grout Type	**Cement**	Grout Interval (ft)	0 to 1.5	Scrn Length (ft)	15
Csg Seal Type	**Bentonite**	Seal Interval (ft)	1.5 to 3	Scrn Slot Size (in)	0.010
Sand Pack Type	**10/20 Silica**	Sand Interval (ft)	3 to 20	Static Water Level	***19.50***
Rmrks	***4' riser added***	TOC Elevation (ft)		Sample Method	***Split Spoon***

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm) unf/fil	Geologic Description
0					Brown, clay loam, high is organics
5	1*	5		52	Tan brown-gray, silty fine to medium sand
10	2	8.0-10 10-11.5	shelby tube 2,1,2	8.5	Gray clay to sand, alluvial rocks
15	3	13.5-15		18.89	Gray clayey sand
20	4	18.5-20	4,7,14	1313	
25					

Typical Diagram



Not to Scale

Notes:

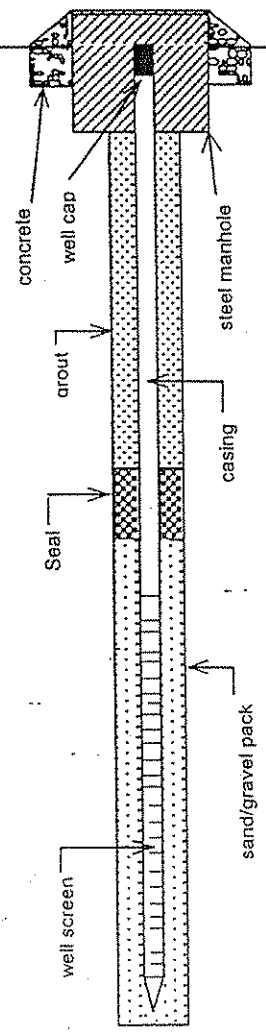
ologist: **Jordan Garrard** | Driller: **Piedmont Environmental**

WELL LOG: MW-13

Permit #		Drill Date	01/09/02	Site	EZ-Serve 8102
Client	*EZ-Serve*	Use	**Monitoring Well**	Handex Loc. #	121415
Site Address	**4308 North Peachtree Road**			Total Depth (ft)	20
Drilling Method	**Hollow Stem**	Boring Depth (ft)	**21**	Boring Diam. (in)	8.25
Casing/Scrn. Mat	**Sch -40 PVC**	Csg/Scrn Diam (in)	**2**	Csg Length(ft)	5
Grout Type	**Cement**	Grout Interval (ft)	**0** to **1.5**	Scrn Length (ft)	15
Csg Seal Type	**Bentonite**	Seal Interval (ft)	**1.5** to **3**	Scrn Slot Size (in)	0.010
Sand Pack Type	**10/20 Silica**	Sand Interval (ft)	**3** to **20**	Static Water Level	*19.50*
Rmrks	***4' riser***	TOC Elevation (ft)		Sample Method	***Split Spoon***

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm) unf/fil	Geologic Description
0					Light brown clayey silt
5	1	5		2.56	
					Red sandy clay to gray clay
10	2*	8.5-10	1,1,2	98	
					Light brown silty clay to gray sand Gray clayey sand
15	3	13.5-15	1,1,1	240	
					Gray clay, wet
20	4	18.5-20	4,7,14	0	
25					

Typical Diagram



Not to Scale

Notes:

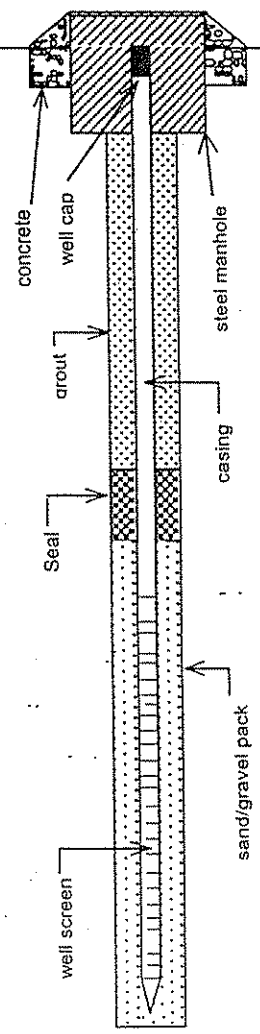
Geologist: **Jordan Garrard** | Driller: **Piedmont Environmental**

WELL LOG: MW-14

rmit #		Drill Date	01/09/02	Site	EZ-Serve 8102
Client *EZ-Serve*		Use	**Monitoring Well**	Handex Loc. #	121415
Site Address	**4308 North Peachtree Road**			Total Depth (ft)	20
Drilling Method	**Hollow Stem**	Boring Depth (ft)	23	Boring Diam. (in)	8.25
Casing/Scrn. Mat	**Sch -40 PVC**	Csg/Scrn Diam (in)	2	Csg Length(ft)	5
Grout Type	**Cement**	Grout Interval (ft)	0 to 1.5	Scrn Length (ft)	15
Csg Seal Type	**Bentonite**	Seal Interval (ft)	1.5 to 3	Scrn Slot Size (in)	0.010
Sand Pack Type	**10/20 Silica**	Sand Interval (ft)	3 to 20	Static Water Level	*19.50*
Rmrks *4' riser*		TOC Elevation (ft)		Sample Method	***Split Spoon***

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm) unf/fil	Geologic Description
0					Light brown clayey silt
5	1*	5		203	
					light brown clayey silt
10	2	8.5-10		7	
					Gray clay, wet
15	3	13.5-15	2,2,2	93	
					Gray clay, wet
20					
25					

Typical Diagram



Not to Scale

Notes:

ologist:	**Jordan Garrard**	Driller:	**Piedmont Environmental**

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-15** PAGE 1 OF 2 SECOR
DRILLING: STARTED **12/13/06** COMPLETED: **12/13/06** INSTALLATION: STARTED **12/13/06** COMPLETED: **12/13/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **23.0** WELL CASING DIAMETER (in): **4** BOREHOLE DIAMETER (in): **11** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML	**SANDY SILT** ; ML; 7.5YR 5/4 brown; non plastic; soft; moist; slight odor; poorly graded; fine to medium sand		MW-15@ 2-3'	5		107		4 inch diameter PVC blank casing; Bentonite chips seal
5		ML	**SILT WITH FINE SAND AND FINE GRAVEL** ; ML; 7.5YR 5/8 brown; non plastic; stiff; moist; slight odor		1200 MW-15	.9	1 5 2 2	218	5	
10		ML	**SILT** ; ML; 7.5YR 4/3 brown; non plastic; stiff; moist; slight odor		MW-15@ 10-11'	2	2 2 3 4	158	10	10/30 silica sand pack
15		ML	**SILT** ; ML; 5YR 4/6 yellowish red; non plastic; soft; moist; slight odor		MW-15@ 15-16'	2	1 2 3 4	485	15	4 inch diameter PVC 0.010 inch slotted screen
		ML	**SILT** ; ML; 5YR 5/8 yellowish red; non plastic; soft; moist; slight odor				1 2			

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-15** PAGE 2 OF 2 SECOR
DRILLING: STARTED **12/13/06** COMPLETED: **12/13/06** INSTALLATION: STARTED **12/13/06** COMPLETED: **12/13/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **23.0** WELL CASING DIAMETER (in): **4** BOREHOLE DIAMETER (in): **11** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML			- MW-15@ 20-21'	2	2 3	22.4		
			Hole terminated at 23 feet.							4 inch diameter PVC pipe cap
25									25	
30									30	
35									35	

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-16** PAGE 1 OF 2 SECOR
DRILLING: STARTED **12/13/06** COMPLETED: **12/13/06** INSTALLATION: STARTED **12/13/06** COMPLETED: **12/13/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **23.0** WELL CASING DIAMETER (in): **2** BOREHOLE DIAMETER (in): **8** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
			TOPSOIL							2 inch diameter PVC blank casing
		ML	**SILT TRACE MEDIUM TO COARSE GRAVEL** ; ML; 5YR 4/6 yellowish red; non plastic; soft; dry; no odor		MW-16@ 2-3'	5		.4		Bentonite chips seal
5		ML	**SANDY SILT WITH FINE SAND** ; ML; 7.5YR 4/3 brown; non plastic; stiff; moist; no odor		MW-16@ 6-7'	2	2 2 3 3	2.1	5	
		ML	**SILT** ; ML; GLEY 1 N/6 gray; non plastic; soft; moist; slight odor; wet at 14'		1335 MW-16	2	2 2 2 3	4.5	10	10/30 silica sand pack
15					MW-16@ 15-16'	2	3 4 5 4	3.2	15	2 inch diameter PVC 0.010 inch slotted screen
		ML	**SILT** ; ML; 10YR 5/8 yellowish brown; non plastic; stiff; dry; no odor; laminated				3 4			

PROJECT: **EZ Serve North Peachtree**
LOCATION: **Chamblee, GA**
PROJECT NUMBER: **21OT.06203.05**

WELL / PROBEHOLE / BOREHOLE NO: **MW-16** PAGE 2 OF 2

SECOR

DRILLING: STARTED **12/13/06** COMPLETED: **12/13/06**
INSTALLATION: STARTED **12/13/06** COMPLETED: **12/13/06**
DRILLING COMPANY: **Betts**
DRILLING EQUIPMENT: **Diedrick 120**
DRILLING METHOD: **Hollow Stem Auger**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft):
EASTING (ft):
LATITUDE:
LONGITUDE:
GROUND ELEV (ft):
TOC ELEV (ft):
INITIAL DTW (ft): **NE**
BOREHOLE DEPTH (ft): **23.0**
STATIC DTW (ft): **NE**
WELL DEPTH (ft): **23.0**
WELL CASING DIAMETER (in): **2**
BOREHOLE DIAMETER (in): **8**
LOGGED BY: **C. Beall**
CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML			- MW-16@ 20-21'	2	10 12	1.2		
			Hole terminated at 23 feet.							2 inch diameter PVC pipe cap
25									25	
30									30	
35									35	

GEO FORM 304 GUST1.GPJ SECOR INTL.GDT 10/16/07

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-17** PAGE 1 OF 2 SECOR
DRILLING: STARTED **12/12/06** COMPLETED: **12/12/06** INSTALLATION: STARTED **12/12/06** COMPLETED: **12/12/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **23.0** WELL CASING DIAMETER (in): **4** BOREHOLE DIAMETER (in): **11** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
			ASPHALT							4 inch diameter PVC blank casing
		ML	**SILT WITH FINE SAND** ; ML; 5YR 5/1 gray; non plastic; dry; strong odor; color change to yellowish red 5YR 5/8 at 9.5'		MW-17@ 2-3'	5		195		Bentonite chips seal
5					MW-17@ 6-7'	2	1 1 2 2	1296	5	
10					MW-17@ 10-11'	2	1 2 2 3	1823	10	10/30 silica sand pack
15		CL	**CLAY WITH SILT** ; CL; 5YR 5/8 AND 5YR 5/1 yellowish red and gray; non plastic; moist; strong odor		1510 MW-17	2	2 3 4 5	2687	15	4 inch diameter PVC 0.010 inch slotted screen
		ML	ML; soupy gray water and product with strong odor							
		ML	**SILT** ; ML; 5YR 5/8 yellowish red; non plastic;				2 6			

GEO FORM 304 GUST1.GPJ SECOR INTL.GDT 10/16/07

PROJECT: **EZ Serve North Peachtree**
LOCATION: **Chamblee, GA**
PROJECT NUMBER: **21OT.06203.05**

WELL / PROBEHOLE / BOREHOLE NO: **MW-17**

SECOR

DRILLING: STARTED **12/12/06** COMPLETED: **12/12/06**
INSTALLATION: STARTED **12/12/06** COMPLETED: **12/12/06**
DRILLING COMPANY: **Betts**
DRILLING EQUIPMENT: **Diedrick 120**
DRILLING METHOD: **Hollow Stem Auger**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft):
EASTING (ft):
LATITUDE:
LONGITUDE:
GROUND ELEV (ft):
TOC ELEV (ft):
INITIAL DTW (ft): **NE**
BOREHOLE DEPTH (ft): **23.0**
STATIC DTW (ft): **NE**
WELL DEPTH (ft): **23.0**
WELL CASING DIAMETER (in): **4**
BOREHOLE DIAMETER (in): **11**
LOGGED BY: **C. Beall**
CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML	dry; no odor		MW-17@ 20-21'	2	7 8	2611		
			Hole terminated at 23 feet.							4 inch diameter PVC pipe cap
25									25	
30									30	
35									35	

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-18** PAGE 1 OF 2 SECOR
DRILLING: STARTED **12/12/06** COMPLETED: **12/12/06** INSTALLATION: STARTED **12/12/06** COMPLETED: **12/12/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **23.0** WELL CASING DIAMETER (in): **4** BOREHOLE DIAMETER (in): **11** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
			ASPHALT							4 inch diameter PVC blank casing
		CL	**CLAY WITH SILT AND FINE SAND** ; CL; 10YR 3/4 dark yellowish brown; high plasticity; stiff; moist; slight odor		MW-18@ 2-3'	5		87.1		Bentonite chips seal
5		ML	**SILT WITH FINE SAND AND MICA** ; ML; 10YR 6/3 pale brown; non plastic; soft; moist; slight odor		0915 MW-18	2	3 3 3 5	122	5	
		ML	**SILT** ; ML; 10YR 4/6 AND 10YR 5/1 dark yellowish brown and gray; non plastic; stiff; moist; slight odor		MW-18@ 10-11'	2	2 2 2 3	9.1		
10									10	10/30 silica sand pack
		CL	**CLAY TRACE SILT** ; CL; 10YR 3/6 dark yellowish brown; medium plasticity; stiff; wet; slight odor		MW-18@ 15-16'	2	3 2 2 3	8.0		
15									15	4 inch diameter PVC 0.010 inch slotted screen
		ML	**SILT** ; ML; 7.5YR 5/8 brown; medium plasticity; soft; wet; slight odor				2 2			

PROJECT: **EZ Serve North Peachtree**
LOCATION: **Chamblee, GA**
PROJECT NUMBER: **21OT.06203.05**

WELL / PROBEHOLE / BOREHOLE NO:
MW-18 PAGE 2 OF 2

SECOR

DRILLING: STARTED **12/12/06** COMPLETED: **12/12/06**
INSTALLATION: STARTED **12/12/06** COMPLETED: **12/12/06**
DRILLING COMPANY: **Betts**
DRILLING EQUIPMENT: **Diedrick 120**
DRILLING METHOD: **Hollow Stem Auger**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft):
LATITUDE:
GROUND ELEV (ft):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
WELL CASING DIAMETER (in): **4**
LOGGED BY: **C. Beall**

EASTING (ft):
LONGITUDE:
TOC ELEV (ft):
BOREHOLE DEPTH (ft): **23.0**
WELL DEPTH (ft): **23.0**
BOREHOLE DIAMETER (in): **11**
CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML			MW-18@ 20-21'	2	2 3	6.7		
			Hole terminated at 23 feet.							4 inch diameter PVC pipe cap
25									25	
30									30	
35									35	

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-19** PAGE 1 OF 2 SECOR
DRILLING: STARTED **12/12/06** COMPLETED: **12/12/06** INSTALLATION: STARTED **12/12/06** COMPLETED: **12/12/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **23.0** WELL CASING DIAMETER (in): **4** BOREHOLE DIAMETER (in): **11** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
			ASPHALT							4 inch diameter PVC blank casing
		CL	**CLAY WITH SILT AND FINE SAND** ; CL; 10YR 3/4 dark yellowish brown; high plasticity; stiff; moist; slight odor		MW-19@ 2-3'	5		59.5		Bentonite chips seal
5		ML	**SILT WITH FINE SAND** ; ML; 7.5 YR 4/2 brown; non plastic; moist; slight odor		MW-19@ 6-7'	2	1 1 1 1	39.2	5	
10		ML	**SILT** ; ML; 10YR 5/8 AND 10YR 5/1 yellowish brown gray; low plasticity; moist; slight odor		1230 MW-19	2	1 1 2 3	57.7	10	10/30 silica sand pack
15		SW	**SAND FINE TO COARSE SAND** ; SW; 10YR 4/3 brown; medium dense; moist; no odor		MW-19@ 15-16'	2	2 2 2 2 2 3	10.2	15	4 inch diameter PVC 0.010 inch slotted screen

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-19** PAGE 2 OF 2 SECOR
DRILLING: STARTED **12/12/06** COMPLETED: **12/12/06** INSTALLATION: STARTED **12/12/06** COMPLETED: **12/12/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **23.0** WELL CASING DIAMETER (in): **4** BOREHOLE DIAMETER (in): **11** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML	**SILT** ; ML; GLEY 1 5G 5/1 greenish gray; medium dense; moist; no odor; laminated; color change to yellowish red 5YR 5/8 at 20.5		- MW-19@ 20-21'	2	5 7	3.2		
			Hole terminated at 23 feet.							4 inch diameter PVC pipe cap
25									25	
30									30	
35									35	

PROJECT: **EZ Serve** LOCATION: **N. Peachtree** PROJECT NUMBER: **21OT.07203.06**	WELL / PROBEHOLE / BOREHOLE NO: **MW-20** PAGE 1 OF 1 SECOR
DRILLING: STARTED **6/12/07** COMPLETED: **6/12/07** INSTALLATION: STARTED **6/12/07** COMPLETED: **6/12/07** DRILLING COMPANY: **Bear Environmental** DRILLING EQUIPMENT: **Geoprobe 6610DT** DRILLING METHOD: **hollow stem auger** SAMPLING EQUIPMENT: **2-inch x 60-inch sampler**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **25.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): --- WELL CASING DIAMETER (in): --- BOREHOLE DIAMETER (in): LOGGED BY: **J. Brown** CHECKED BY: **D. Raede**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
		ML	Soft; dry; TOPSOIL; few large GRAVEL& CONCRETE pieces							cement grout
			SILT SOME SAND ; ML; dark brown to light tan; loose							
		SM	**SILTY SAND** ; SM; dark brownish gray; soft; dry; moist by 4'		MW-20-0-4'			0.0		bentonite seal
					MW-20-4-5'			0.7		2" SCH40 blank PVC casing
5		CL	**CLAY** ; CL; brown; medium plasticity; very soft; moist; grades from SM to CL @ 7'; moist to wet @ 8'		MW-20-5-10'	4.75		0.0	5	
		CL	**CLAY** ; CL; light grayish blue with olive; medium plasticity; soft; mottled							
10					9:40 MW-20 @ 10-12'			0.0	10	#2 filter pack sand
		ML	**SILT** ; ML; light gray; medium plasticity; moist; iron oxide staining; mottled; becomes very dark brown to black @ 19'			4.5				
					MW-20-12-15'			0.0		2" SCH40 0.010" slotted PVC screen
15									15	
						5				
20		ML	**SILTY SAND** ; ML; very light gray; medium plasticity; moist; no odor; no staining						20	
		ML	**SILTY SAND** ; ML; blueish green; medium dense to soft; saturated							
		ML	**SILTY SAND** ; ML; brownish tan; medium dense to soft; dry							
25			Hole terminated at 25 feet.						25	

PROJECT: **EZ Serve** LOCATION: **N. Peachtree** PROJECT NUMBER: **21OT.07203.06**	WELL / PROBEHOLE / BOREHOLE NO: **MW-21** PAGE 1 OF 1 SECOR
DRILLING: STARTED **6/12/07** COMPLETED: **6/12/07** INSTALLATION: STARTED **6/12/07** COMPLETED: **6/12/07** DRILLING COMPANY: **Bear Environmental** DRILLING EQUIPMENT: **Geoprobe 6610DT** DRILLING METHOD: **hollow stem auger** SAMPLING EQUIPMENT: **2-inch x 60-inch sampler**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **25.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **---** WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): LOGGED BY: **J. Brown** CHECKED BY: **D. Raede**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Reddish brown; dry; TOPSOIL							cement grout
		SM	**SILTY SAND** ; SM; reddish brown; loose; dry; some white medium course sub-rounded SAND FRAGMENTS		MW-21-0-7'			0.0		bentonite seal; 2" SCH40 blank PVC casing
		SM	**SILTY SAND** ; SM; light tan and light gray; loose; dry; no odor; no staining; mottled							
5		ML	**SILT SOME SAND** ; ML; brownish tan with light gray; non plastic; soft; moist						5	
		ML	**SILT SOME SAND TRACE FINE SAND** ; ML; greenish gray with dark olive; non plastic; medium dense; moist; little reddish brown; very moist @ 9-10'		MW-21-7-9'	5		0.3		
10		ML	**SILT** ; ML; brownish green; slight odor		MW-21-9-11'			4.3	10	#2 filter pack sand
					MW-21-11-13'	5		1.5		
		SM	**SILTY SAND** ; SM; brownish green; slight odor		11:30 MW-21 @ 13-15'			55.1		2" SCH40 0.010" slotted PVC screen
15		ML	**SILT** ; ML; brown to reddish brown; very soft; dry; no odor; black flacky mineral rich/organic black seams @ 18-18.5'		MW-21-15-17'			2.5	15	
					MW-21-17-19'	4.5		0.0		
20			Sample jammed; could not pull out liner; will pressure wash to set free						20	
25			Hole terminated at 25 feet.						25	

PROJECT: **EZ Serve**
LOCATION: **N. Peachtree**
PROJECT NUMBER: **21OT.07203.06**

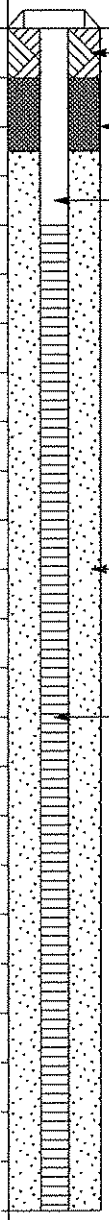
WELL / PROBEHOLE / BOREHOLE NO: **MW-22** PAGE 1 OF 1

SECOR

DRILLING: STARTED **6/12/07**	COMPLETED: **6/12/07**	NORTHING (ft):	EASTING (ft):
INSTALLATION: STARTED **6/12/07**	COMPLETED: **6/12/07**	LATITUDE:	LONGITUDE:
DRILLING COMPANY: **Bear Environmental**		GROUND ELEV (ft):	TOC ELEV (ft):
DRILLING EQUIPMENT: **Geoprobe 6610DT**		INITIAL DTW (ft): **NE**	BOREHOLE DEPTH (ft): **25.0**
DRILLING METHOD: **hollow stem auger**		STATIC DTW (ft): **NE**	WELL DEPTH (ft): **---**
SAMPLING EQUIPMENT: **2-inch x 60-inch sampler**		WELL CASING DIAMETER (in): **---**	BOREHOLE DIAMETER (in):
		LOGGED BY: **J. Brown**	CHECKED BY: **D. Raede**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
		SM	ASPHALT with some GRAVEL below **SANDY SILT** ; SM; light reddish brown; loose; moist		MW-22-0-1'			118	
					MW-22-1-2'			107 136	
					MW-22-2-3'			396	
					MW-22-3-4'			1973	
5		ML	**SILT** ; ML; dark gray and brown; non plastic; medium stiff; moist; slight odor						5
		ML	**SILT** ; ML; reddish tan; non plastic; medium stiff; moist; slight odor		MW-22-4-5'			462	
					MW-22-5-7'			1688	
					MW-22-7-9'				
10		ML	**SILT** ; ML; brown and greenish brown; soft; slight odor; dry to moist		MW-22-9-11'			1832	10
					MW-22-11-13'			1401	
					14:00 MW-22 @ 13-15'			1299	
15		ML	**SILT** ; ML; brown and greenish brown; soft; dry; slight odor; very greenish color and dry to slightly moist @ 16-17'		MW-22-15-17'	20		1649	15
		ML	**SILT** ; ML; light reddish brown; dense; dry; slight odor		MW-22-17-19'			237	
20		SM	**SANDY SILT** ; SM; medium dense; moist		MW-22-19-21'			648	20
		ML	**SILT** ; ML; many black organic bands @ 23.5-25'; odor seems to fade out		MW-22-21-23'			1000	
					MW-22-23-25'			6.7	
25			Hole terminated at 25 feet.						25

Borehole Backfill



PROJECT: **EZ Serve**
LOCATION: **4308 North Peachtree, Chamblee, Georgia**
PROJECT NUMBER: **21OT.07203.06.0001**

WELL / PROBEHOLE / BOREHOLE NO: **MW-23D** PAGE 1 OF 2

SECOR

DRILLING: STARTED **6/18/07** COMPLETED: **6/18/07**
INSTALLATION: STARTED **6/18/07** COMPLETED: **6/18/07**
DRILLING COMPANY: **Drilling Solutions, Inc.**
DRILLING EQUIPMENT: **D50 drill rig**
DRILLING METHOD: **hollow stem augers**
SAMPLING EQUIPMENT: **2-inch x 48-inch split spoon sampler**

NORTHING (ft):
LATITUDE:
GROUND ELEV (ft):
INITIAL DTW (ft): **15 6/18/07**
STATIC DTW (ft): **NE**
WELL CASING DIAMETER (in): **2**
LOGGED BY: **A. Riemer**

EASTING (ft):
LONGITUDE:
TOC ELEV (ft):
BOREHOLE DEPTH (ft): **58.0**
WELL DEPTH (ft): **58.0**
BOREHOLE DIAMETER (in): **8.25**
CHECKED BY: **D. Raede**

Time & Depth (feet)	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)
10:00		**ASPHALT**; approximately 6 inches					
10:05	ML	**SANDY SILT TRACE GRAVEL** ; ML; 5 YR 4/6 yellowish red; medium dense; moist; slight HC odor		10:05 MW-23D (0-1')	.5		0.8
10:10	ML	**SILT** ; ML; 5 YR 4/6 yellowish red; medium dense to dense; moist; slight HC odor		10:10 MW-23D (1-2')	1		1.1
10:15				10:15 MW-23D (2-3')	1		0.8
10:20	ML	2.5 Y 7/3 pale yellow; medium dense		10:20 MW-23D (3-4')	1		1.7
10:25	ML	**SAND TRACE GRAVEL** ; ML; 2.5 Y 6/2 light yellowish brown with reddish orange; medium dense; moist; slight HC odor		10:25 MW-23D (4-5')	1		4.8
10:30 (5)		**SILT TRACE CLAY** ; ML; 10 YR 4/6 dark yellowish brown with yellowish brown; medium dense; moist; slight HC odor		10:30 MW-23D (5-7')	2	1 3 4 4	6.0
		5 Y 5/1 gray; moist; moderate HC odor		10:35 MW-23D (7-9')	2	1 3 3 3	28.4
10:35	CL-ML	**SILTY CLAY** ; CL-ML; 5 Y 5/2; olive gray; medium dense; moist; moderate HC odor		10:40 MW-23D (9-11')	2	2 1 2 3	260
10:40	ML	**SILT** ; ML; 5 Y 6/1 gray with brown; medium dense; moist; moderate HC odor		10:45 MW-23D (11-13')	2	2 2 4 4	320
10:45				10:47 MW-23D (13-15')	2	2 1 2 1	21.6
10:47	ML	**CLAYEY SILT** ; ML; 2.5 Y 4/2 dark grayish brown; medium dense; moist; slight HC odor		10:50 MW-23D (15-17')	2	1 1 1 2	15.1
10:50 (15)	ML	**SILT TRACE SAND** ; ML; 5 Y 6/2; light olive gray; moist to very moist; slight HC odor		10:55 MW-23D (18-20')	2	2 3 5 7	7.2
10:55	ML	**SILT** ; ML; 5 Y 8/3 pale yellow; medium dense; saturated; slight HC odor		11:10 MW-23D (23-25')	2		5.5
(20)							
11:10		10 YR 5/6 yellowish brown with brownish black; dense; moist; no odor		11:25 MW-23D (28-30')	2		2.5
(25)							
11:25	SW	**SAND TRACE GRAVEL AND FINE SAND** ; SW; 10 YR 5/6 yellowish brown with black; coarse-grained; dense to very dense; moist; no odor					

Depth (feet): 5, 10, 15, 20, 25

Well Construction:
- flush-mounted well box
- cement grout
- 2" Schedule 40 PVC riser

PROJECT: **EZ Serve**
LOCATION: **4308 North Peachtree, Chamblee, Georgia**
PROJECT NUMBER: **21OT.07203.06.0001**

WELL / PROBEHOLE / BOREHOLE NO: **MW-23D** PAGE 2 OF 2

SECOR

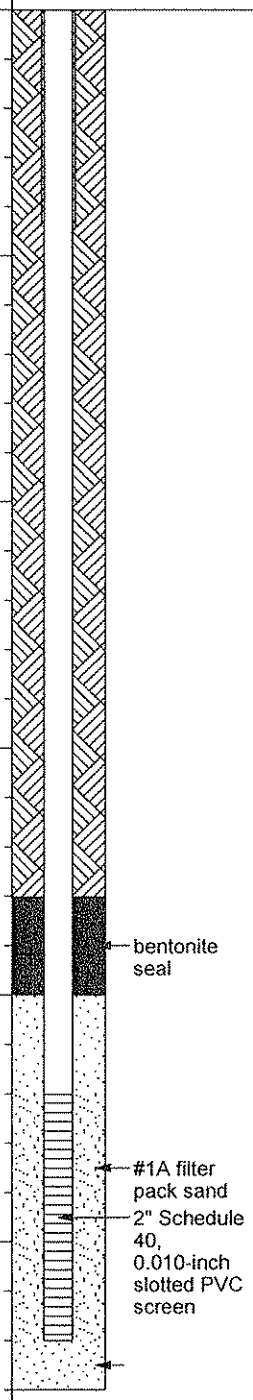
DRILLING: STARTED **6/18/07** COMPLETED: **6/18/07**
INSTALLATION: STARTED **6/18/07** COMPLETED: **6/18/07**
DRILLING COMPANY: **Drilling Solutions, Inc.**
DRILLING EQUIPMENT: **D50 drill rig**
DRILLING METHOD: **hollow stem augers**
SAMPLING EQUIPMENT: **2-inch x 48-inch split spoon sampler**

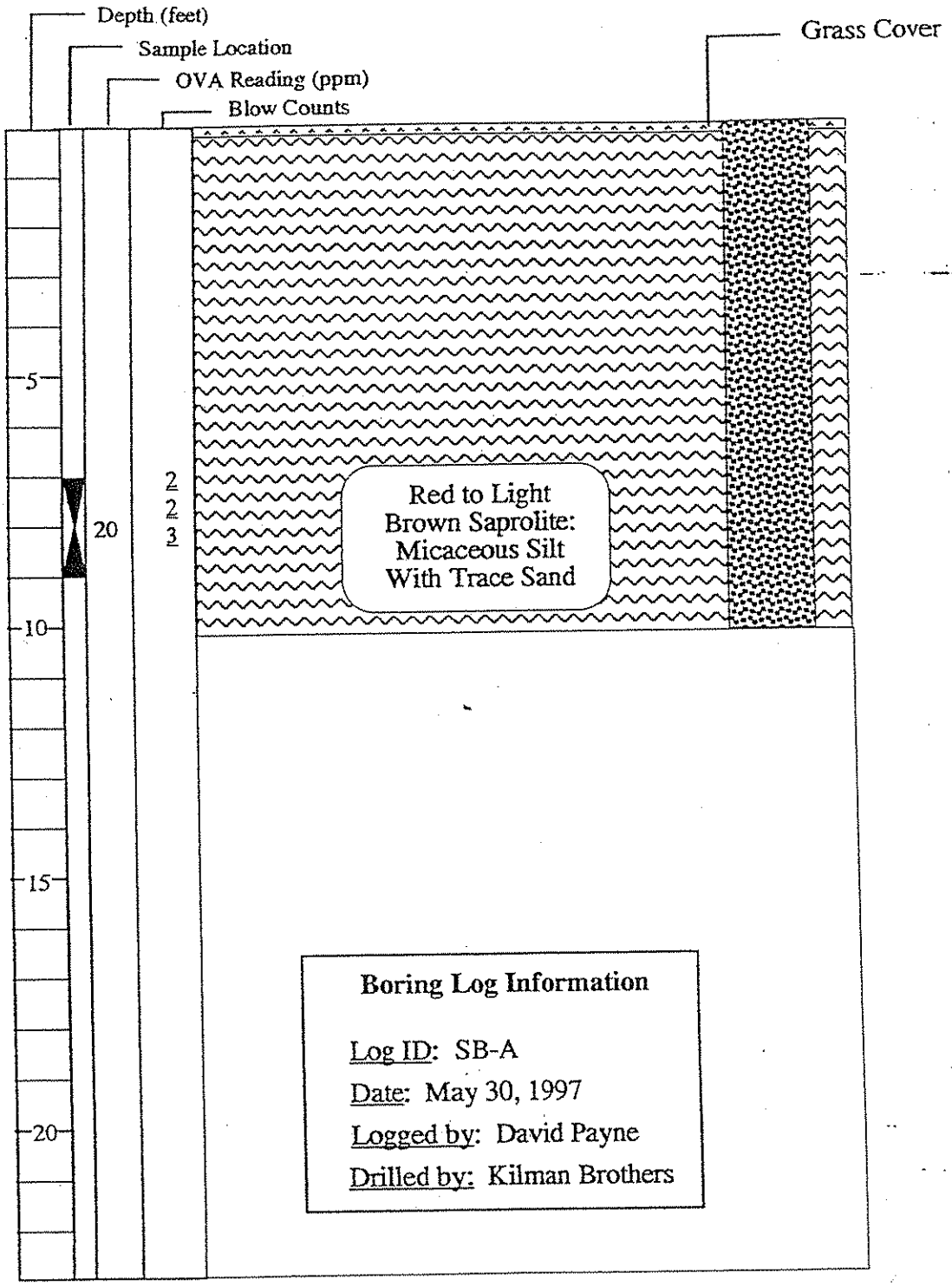
NORTHING (ft):
LATITUDE:
GROUND ELEV (ft):
INITIAL DTW (ft): **15 6/18/07**
STATIC DTW (ft): **NE**
WELL CASING DIAMETER (in): **2**
LOGGED BY: **A. Riemer**

EASTING (ft):
LONGITUDE:
TOC ELEV (ft):
BOREHOLE DEPTH (ft): **58.0**
WELL DEPTH (ft): **58.0**
BOREHOLE DIAMETER (in): **8.25**
CHECKED BY: **D. Raede**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
		SW							
11:45		ML	**SILT** ; ML; 7.5 YR 5/8; strong brown; dense to very dense; moist; no odor	X	11:45 MW-23D (33-35')	1.75	33 42 45 50	2.8	
35									35
12:10			2.5 Y 7/3 pale yellow	X	12:10 MW-23D (38-40')	2		0.6	
40									40
12:40			10YR 5/6 yellowish brown	X	12:40 MW-23D (43-45')	2		1.8	
45			Blind drilled						45
13:20 50									50
15:10 55									55
15:30			Refusal at 58 feet. Hole terminated at 58 feet.						

Well Construction

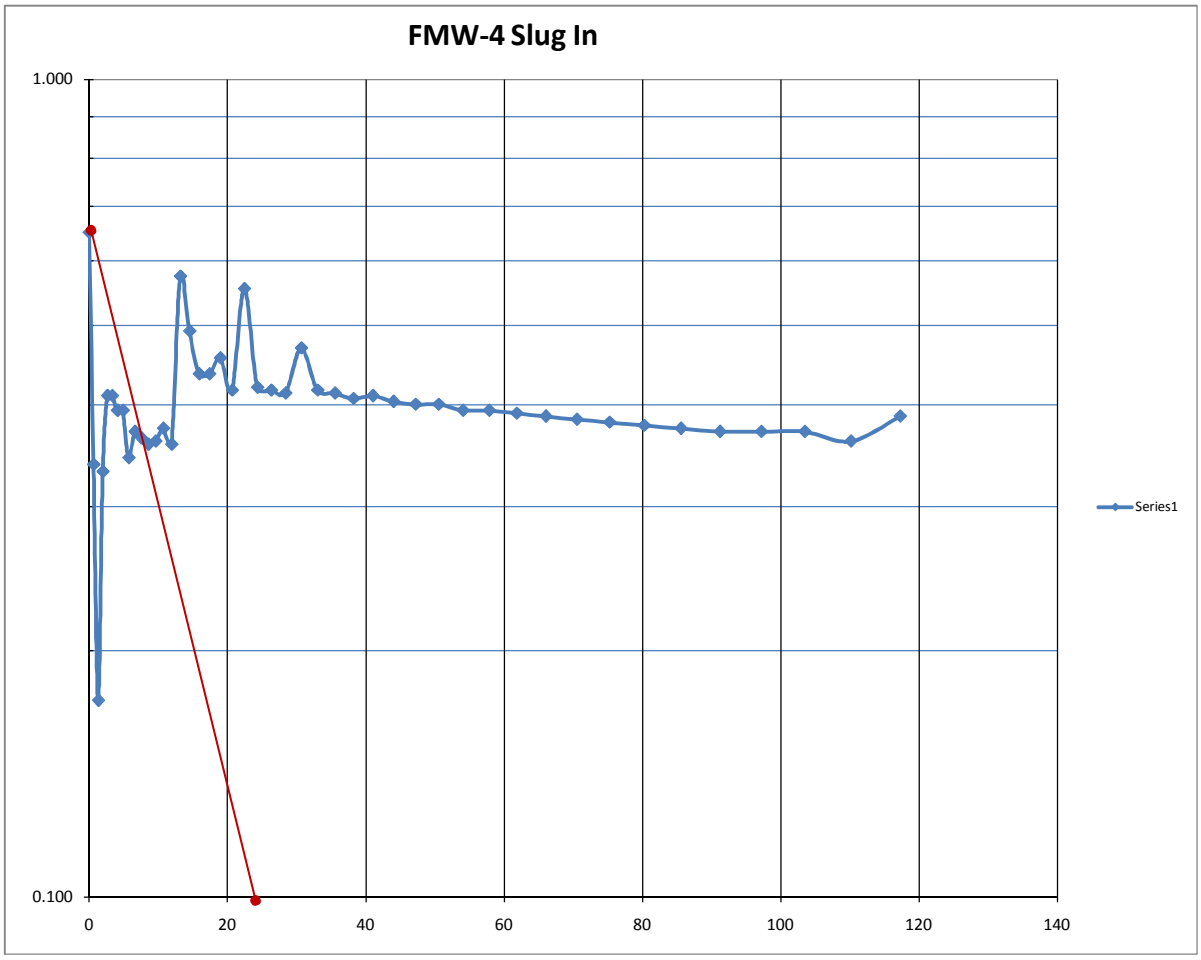




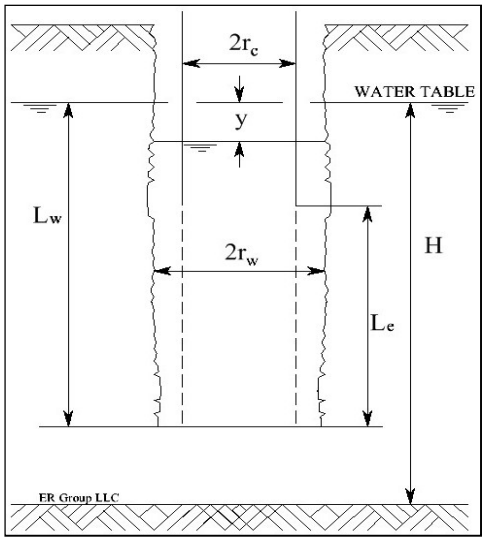
Boring Log Information

Log ID: SB-A
Date: May 30, 1997
Logged by: David Payne
Drilled by: Kilman Brothers

Z Serve Convenience Stores, Inc.	Facility #: 8102 GA EPD #: 9000341	**Soil Boring Log**
308 North Peachtree Road, Chamblee, Georgia	Drafted by: D. Shunnarah	**Date:** June 3, 1997
ESCM Technology, Inc. 1781 Mars Hill Road	Proprietary Drawing - Property of ESCM	**SB-A**

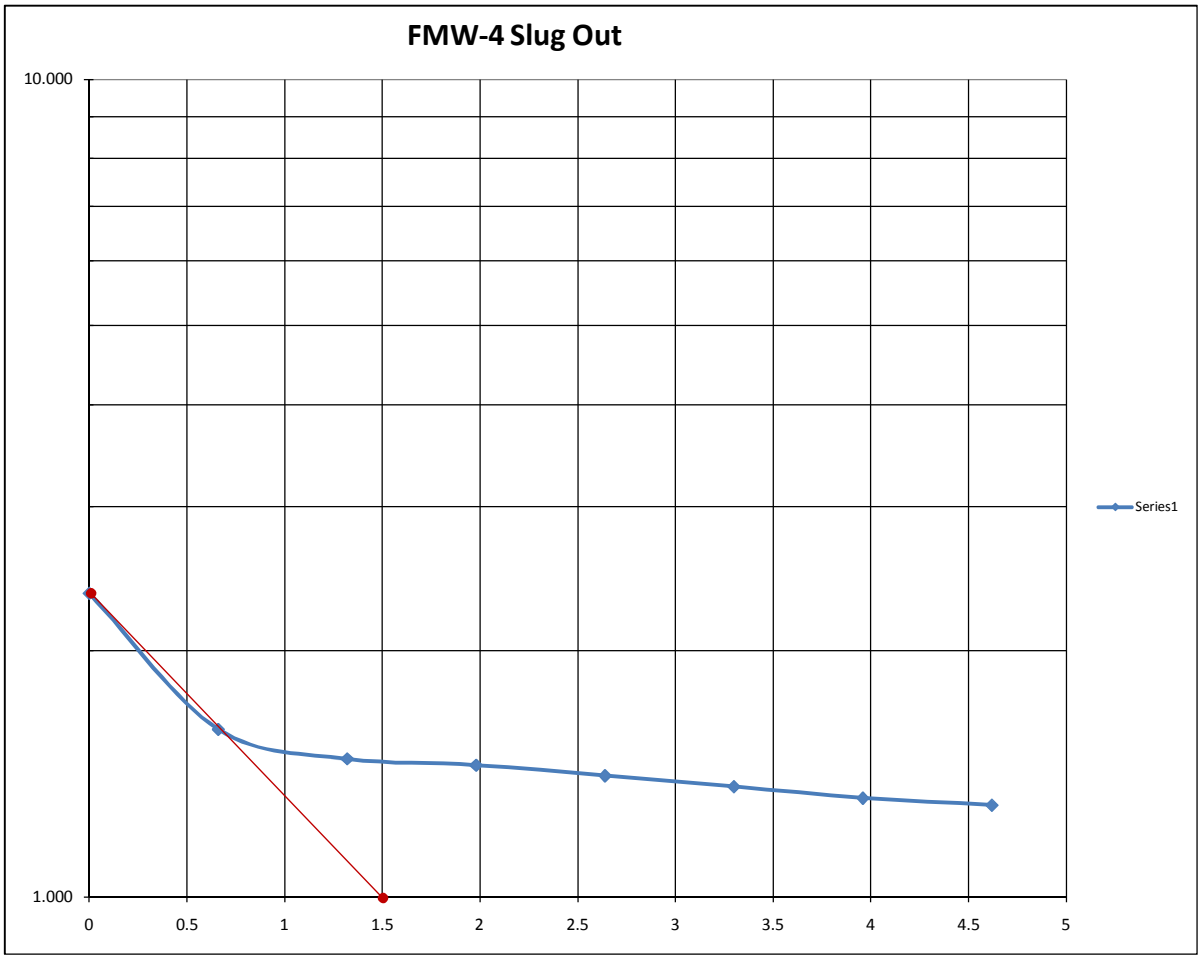


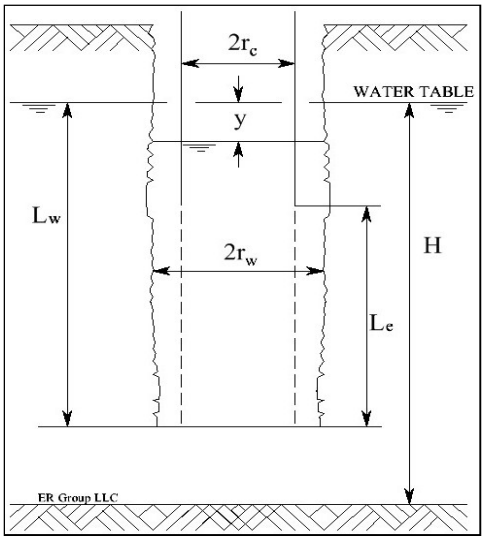
Physical Parameters:		TEST 3	
Well Casing Radius	(rc)	0.08333	Ft
Boring Radius	(rw)	0.33333	Ft
Water In Well	(Le)	6.63	Ft
Aquifer Thickness	(H)	40	Ft
Wet Well Depth	(Lw)	6.63	Ft
Porosity	(n)	0.2	



Parameter Calculations for Bouwer and Rice Slug Test (Ground Water, 1989)

Re (effective radius) = ((1-n)*rc^2 +n*rw^2)^.5 =		0.16667
Log (Le/rw) =		1.29863
Interpolated "A" from Table:	A =	2.23049
Interpolated "B" from Table:	B =	0.32482
Interpolated "C" from Table:	C =	1.50004
Ln(Re/rw) where Lw < H		1.80105
Ln(Re/rw) where Lw = H		2.2559
Yo =		0.7
Yt =		0.1
t =		10
K (ft/sec) where Lw < H	0.00018 ft/sec	15.86 ft/day
K (ft/sec) where Lw = H	0.00023 ft/sec	19.86 ft/day





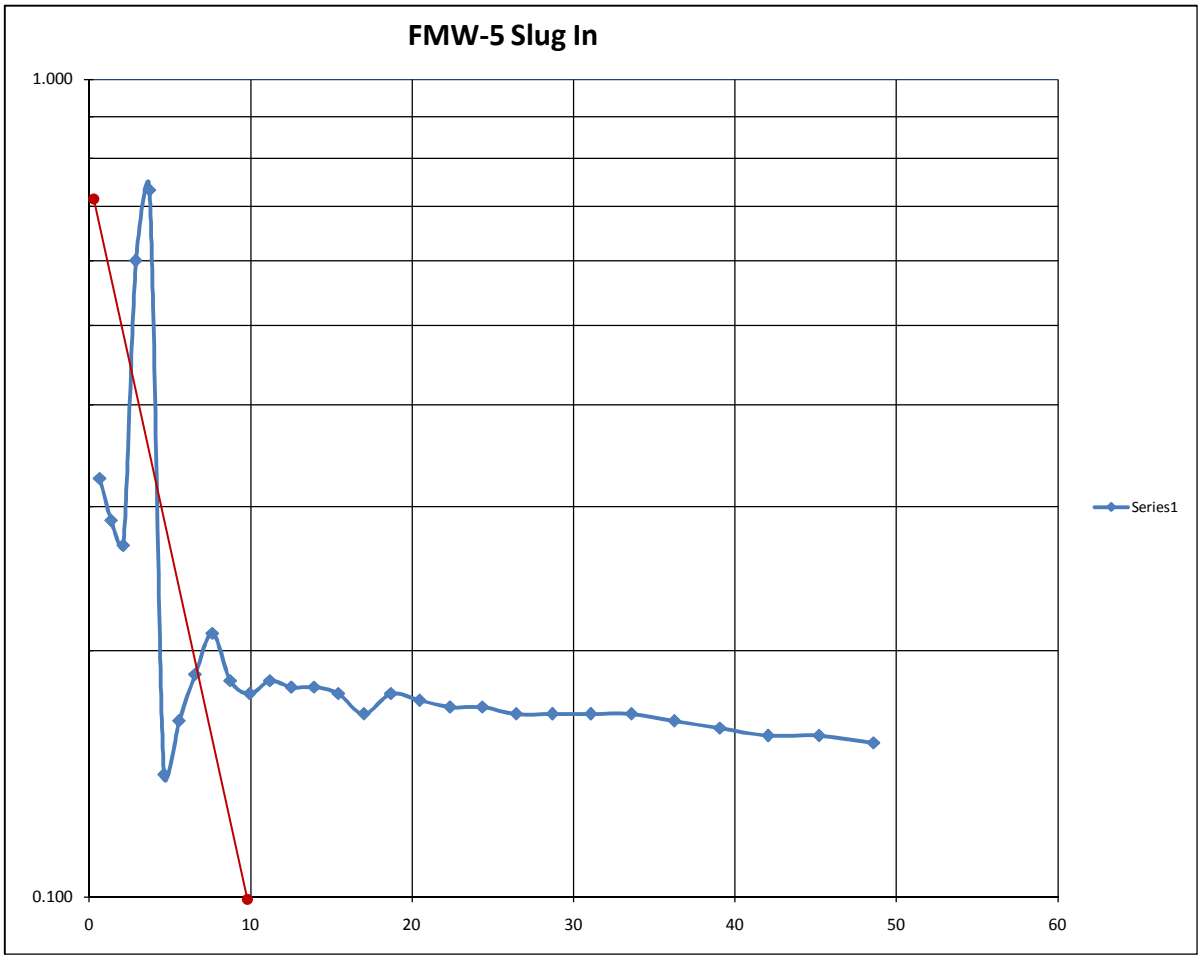
Physical Parameters:		TEST 4	
Well Casing Radius	(rc)	0.08333	Ft
Boring Radius	(rw)	0.33333	Ft
Water In Well	(Le)	6.63	Ft
Aquifer Thickness	(H)	40	Ft
Wet Well Depth	(Lw)	6.63	Ft
Porosity	(n)	0.2	

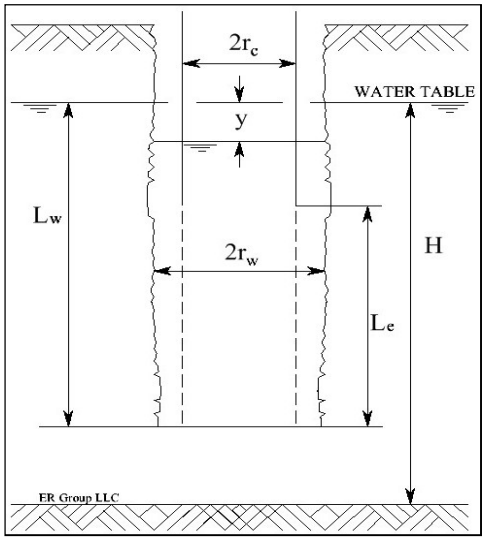
Parameter Calculations for Bouwer and Rice Slug Test (Ground Water, 1989)

Re (effective radius) = ((1-n)*rc^2 +n*rw^2)^.5 = 0.16667

Log (Le/rw) =		1.29863
Interpolated "A" from Table:	A =	2.23049
Interpolated "B" from Table:	B =	0.32482
Interpolated "C" from Table:	C =	1.50004
Ln(Re/rw) where Lw < H		1.80105
Ln(Re/rw) where Lw = H		2.2559
Yo =		1.2
Yt =		1
t =		1.5

K (ft/sec) where Lw < H	0.00011 ft/sec	9.91 ft/day
K (ft/sec) where Lw = H	0.00014 ft/sec	12.41 ft/day





Physical Parameters: TEST 1

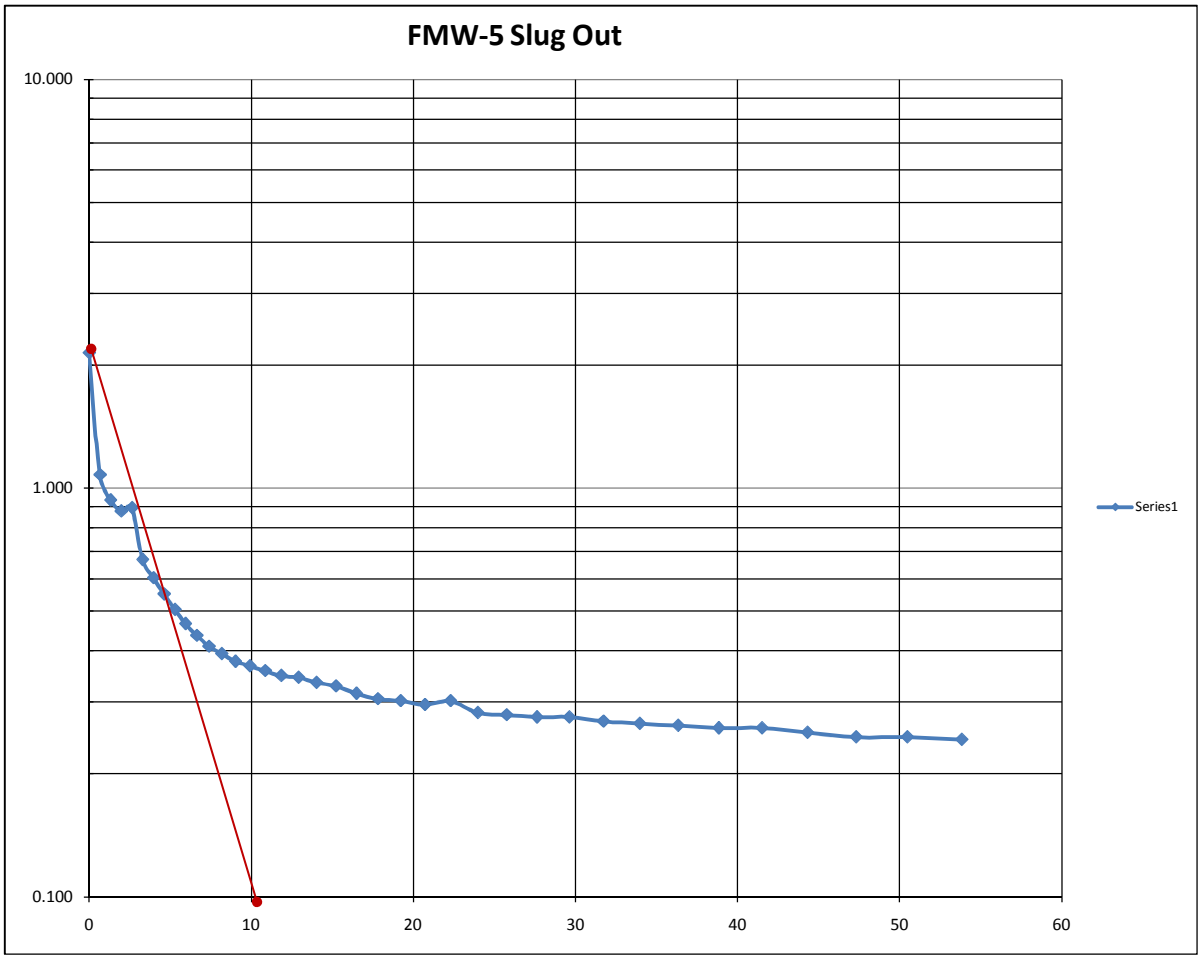
Well Casing Radius	(rc)	0.08333	Ft
Boring Radius	(rw)	0.33333	Ft
Water In Well	(Le)	5.83	Ft
Aquifer Thickness	(H)	40	Ft
Wet Well Depth	(Lw)	5.83	Ft
Porosity	(n)	0.2	

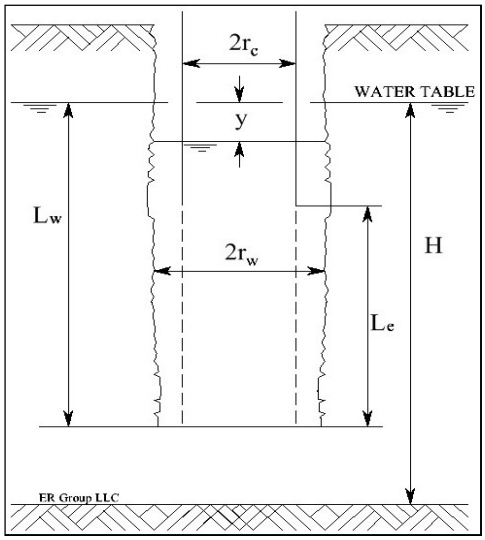
Parameter Calculations for Bouwer and Rice Slug Test (Ground Water, 1989)

Re (effective radius) = ((1-n)*rc^2 +n*rw^2)^.5 = 0.16667

Log (Le/rw) =		1.24279
Interpolated "A" from Table:	A =	2.14962
Interpolated "B" from Table:	B =	0.3124
Interpolated "C" from Table:	C =	1.41985
Ln(Re/rw) where Lw < H		1.69491
Ln(Re/rw) where Lw = H		2.14787
Yo =		0.7
Yt =		0.1
t =		10

K (ft/sec) where Lw < H	0.0002	ft/sec	16.97	ft/day
K (ft/sec) where Lw = H	0.00025	ft/sec	21.51	ft/day





Physical Parameters:		TEST 2	
Well Casing Radius	(rc)	0.08333	Ft
Boring Radius	(rw)	0.33333	Ft
Water In Well	(Le)	5.83	Ft
Aquifer Thickness	(H)	40	Ft
Wet Well Depth	(Lw)	5.83	Ft
Porosity	(n)	0.2	

Parameter Calculations for Bouwer and Rice Slug Test (Ground Water, 1989)

Re (effective radius) = ((1-n)*rc^2 +n*rw^2)^.5 = 0.16667

Log (Le/rw) =		1.24279
Interpolated "A" from Table:	A =	2.14962
Interpolated "B" from Table:	B =	0.3124
Interpolated "C" from Table:	C =	1.41985
Ln(Re/rw) where Lw < H		1.69491
Ln(Re/rw) where Lw = H		2.14787
Yo =		1.2
Yt =		0.1
t =		10

K (ft/sec) where Lw < H	0.00025	ft/sec	21.67	ft/day
K (ft/sec) where Lw = H	0.00032	ft/sec	27.46	ft/day

Appendix C
Groundwater-Surface Water Mixing Zone Analysis

NANCY CREEK MIXING ZONE ANALYSIS
2211 SAVOY DRIVE, CHAMBLEE, DEKALB COUNTY, GEORGIA
HSI 10786

OVERVIEW

This mixing zone analysis has been prepared to model the groundwater discharge and resulting mixing with Nancy Creek. Nancy Creek is a significant perennial surface water flow occurring at the down-gradient boundary of the subject site. The groundwater at the site contains volatile organic compounds (VOCs) that are transported with groundwater, and subsequently into Nancy Creek. Previous stream sampling has been unable to detect target VOCs, therefore this analysis is intended to determine the theoretical VOC concentration(s) immediately in the reach forming the plume/creek interface.

METHODOLOGY

Groundwater constituents are mixed and diluted according to the ratio of flows

$$(G)/(G+S) \times C_{VOC} \qquad \textbf{EQUATION 1}$$

where
G represents groundwater discharge volume,
S represents surface flow volume, and
$\mathbf{C_{VOC}}$ is the groundwater discharge concentration of a specific VOC constituent.

Creek flow at this location is observed to highly turbulent and full water column mixing is assumed. Therefore, modeling the mixing of groundwater and surface flow to determine theoretical surface water VOC concentrations was performed using Equation 1, using flows and concentrations as determined in the attached Calculation 1. The parameters used in Equation 1 are discussed in the following:

AREAL AVERAGE C_{VOC}

A conservative areal average of the key VOC groundwater concentrations (Tetrachloroethene, Trichloroethene, Cis-1,2 Dichlorethene, and Vinyl Chloride) was obtained using the nine nearest impacted monitoring wells adjacent to Nancy Creek. Only wells with VOC detections were used to avoid skewing the result. This approach “reached back” into more concentrated areas of the plume to ensure a conservative areal average estimate of discharge into the creek. See attached Calculation 1 for the specific monitoring wells, VOC concentrations, and date of VOC measurement, and the resulting average VOC concentration.

STREAM FLOW VOLUME

Stream flow volume was directly measured on three different days, spread over a one week period, using a Global Water FP111 FLOWPROBE capable of measuring flow from 0.3 to 20 feet per second. To obtain one flow measurement, three flow depth/velocity profile measurements were made along the creek bed, spanning bank to bank. Flow was measured on June 8, June 10, and June 12, 2010. All reasonable effort was made to accurately profile flow, including selecting well-channelized locations with steep banks. No measurable precipitation had been reported in the Nancy Creek watershed for five days prior to the first two measurements. Light rain was reported prior to the June 12 measurement; however flow measurement did not detect a significant flow increase for this measurement.

Flow was measured at both the Savoy Drive location, and also at a location approximately eight miles downstream as a quality check. The downstream location is monitored continuously for flow and other parameters by the US Geologic Survey (USGS) at Station 02336360, near the bridge at Rickenbacker Drive. These downstream data were obtained to allow calibration and comparison of the Savoy Drive flow to continuous USGS measurements at Rickenbacker Drive. The USGS data are available to the public through internet access[1]. It was noted that USGS readings at Rickenbacker Drive do not match the actual (and accurate) field flow measurements conducted for this analysis, and it is assumed that floods in late 2009 damaged the USGS station and it has yet to be repaired. However, USGS data prior to the 2009 flooding is assumed to be reasonably reliable, over the range of flow for which the station was designed. For reference, see the attached USGS Station 02336360 Daily Stream Flow graph spanning continuous flow recordings from 2003 to 2010. Note that these data encompass the 100 year drought conditions. By inspection, and based on best professional judgment, the Nancy Creek 7Q10 at Rickenbacker Drive is the range of 10 to 30 cubic feet per second. Typically, USGS stations are not designed to obtain low flow conditions outside the presumed flow range, and flow below approximately 10 CFS are highly suspect.

The USGS data are helpful to demonstrate that Nancy Creek is subject to very high peak flows typical of urban watersheds, with low dry condition flows, ranging from 10 to 1000 CFS. The large range indicates variable aquifer discharge along the entire length from Savoy Drive to Rickenbacker Drive. Obviously, creek flow slows when the groundwater discharge slows. In the absence of surface runoff from precipitation, the rate of stream flow and aquifer discharge is expected to be nearly a constant ratio closely equal to the ratio shown in Equation 1, with surface runoff causing much higher mixing and dilution during and after precipitation events.

[1] http://wdr.water.usgs.gov/nwisgmap/

GROUNDWATER DISCHARGE VOLUME

Flow volume of groundwater was estimated from the measured site gradient, measured hydraulic conductivity, and groundwater flow area in the Darcy flow equation

$$Q=kIA \qquad \text{EQUATION 2}$$

where
Q = Flow Volume (Ft^3)
k = Hydraulic Permeability (Ft/Day)
I = Flow Gradient (dimensionless)
A = Area of Flow Across Gradient at Creek Interface (Ft^2)
See Calculation 1 for specific values and assumptions used in Equation 2.

Hydraulic conductivity was previously obtained by both falling head and rising head analysis using the Bouwer & Rice method (attached for reference, previously submitted).

Note that the area of flow used in the calculation is conservative in that the actual gradient is not perpendicular to the creek interface, therefore the flow area is significantly overestimated.

RESULTS

The mixing and dilution of VOCs is controlled by the ratio of surface water flow volume to the volume of groundwater containing VOCs. This ratio is expected to be relatively constant in accordance with the convention of groundwater and creek relationships, where less groundwater discharge results in less creek flow. The mixing and dilution ratio calculated for the 2211 Savoy Drive location is 0.0021 (or 1:470). Using this calculated ratio, the VOC dilutions based on calculated areal average are shown in the following (from Calculation 1) at both the Savoy Drive and Rickenbacker Drive locations:

Groundwater VOC	Georgia In-Stream Standard (ug/L)	GW Areal Average Concentration (ug/L)	Savoy Drive Surface Water Conc. (ug/L)	Rickenbacker Drive Surface Water Conc. (ug/L)
PCE	3.3	504	1.07	0.100
TCE	30	53	0.11	0.011
VC	2.4	95	0.20	0.019
Cis-12 DCE	[None]	360	0.77	0.072

Note that flow increases by a factor of 10 between the two locations. This mixing and dilution analysis excludes the beneficial additional dilution that will start occurring immediately outside and downstream from the mixing zone. Based on this analysis, it is unlikely that VOCs from the Savoy groundwater plume are present above detectable levels at any time or any stage of flow in the creek.

Calculation 1: Mixing Zone Analysis
2211 Savoy Drive, Chamblee, DeKalb County
HSI 10786

Date:	6/28/2010
By:	VO
Checked:	LD
Pages:	2

AREAL AVERAGE VOC CONCENTRATIONS AT DISCHARGE

Well ID	Sample Date	PCE	TCE	VC	Cis-1,2 DCE
FMW-15	Jun-10	0	0	8.5	0
FMW-09	Mar-10	1600	72	0	290
FMW-11	Mar-10	44	11	0	10
MW-14	Sep-08	260	260	830	2600
FMW-13	Mar-10	18	2.6	0	1.1
FMW-14	May-10	10	20	0	7.4
FMW-6	Mar-10	1400	52	0	180
FMW-5	Mar-10	1200	29	2.8	39
FMW-10	Mar-10	0	28	11	110
Avg		**504**	**53**	**95**	**360**

MEASURED NANCY CREEK FLOW AT GROUNDWATER INTERFACE

SAVOY DRIVE Creek Flow			**6/8/2010**	**6/10/2010**	**6/12/2010**
Profile	Width	Ft	11	7	4.5
Depth	D1	Inches	5	5	6
Depth	D2	Inches	9.5	20.4	5.5
Depth	D3	Inches	8	13.2	2
Velocity	V1	Ft/S	1.4	1.4	4.2
Velocity	V2	Ft/S	1.6	1.7	1.9
Velocity	V3	Ft/S	0.3	0.3	0.3
Flow Area	A	Ft^2	6.9	7.5	1.7
Flow Volume	Vol	Ft^3/S	7.6	8.5	3.6
Average 3-Day Flow					**6.6**
Standard Deviation					**2.6**

MEASURED NANCY CREEK FLOW DOWNSTREAM- USGS STATION 02336360 (RICKENBACKER DR)

RICKENBACKER DRIVE Creek Flow			**6/8/2010**	**6/10/2010**	**6/12/2010**
Profile	Width	Ft	24.5	25	21
Depth	D1	Inches	5.5	6.5	12
Depth	D2	Inches	6.5	8	8.5
Depth	D3	Inches	6	13.2	8
Velocity	V1	Ft/S	3.6	2.5	3.8
Velocity	V2	Ft/S	4.7	5.5	5
Velocity	V3	Ft/S	4.3	5.8	3.8
Flow Area	A	Ft^2	12.3	19.2	16.6
Flow Volume	Vol	Ft^3/S	51.5	88.5	69.8
Average 3-Day Flow					**69.9**
Standard Deviation					**18.5**

GW Flow Gradient			4/15/2010	
MW-15	Elevation	Ft	88	
FMW-13	Elevation	Ft	83	
	Delta Elev	Ft	5	
	Distance	Ft	472.5	
	Gradient	**Ft/Ft**		**0.011**

Creek/Plume Interface Length and Depth			
FMW-11 to FMW-14	**Ft**	**(Measured From Figure)**	**472.5**
Aquifer Depth	**Ft**	**(Measured to Clay)**	**15**
Flow Area at Creek	**Ft^2**	**(Interface x Aquifer Depth)**	**7087.5**

Measured Permeability (Bouwer-Rice Method)			Rising Head	Falling Head	
	FMW-4	Ft/day	15.9	9.9	
	FMW-5	Ft/day	21.7	17.0	
	Average	**Ft/day**			**16.1**

GW Flow Volume To Nancy Creek At Plume (Q=KxIxA)				
	K	Ft/day	16.1	
	K	Ft/s	0.00019	
	I	Ft/Ft	0.011	
	A	Ft^2	7087.5	
Darcy Flow Volume		**Ft^3/S**		**0.014**

Mixing Zone Dilution (Aquifer Discharge/(Aquifer Discharge + Creek Flow)	**0.0021**

Mixing Zone Concentrations	(Mixing Factor x GW Conc)		GW	Savoy Dr	RickenB
	ug/L	**PCE**	504	1.07	0.100
	ug/L	**TCE**	53	0.11	0.011
	ug/L	**VC**	95	0.20	0.019
	ug/L	**Cis-12 DCE**	360	0.77	0.072

---------- WARNING ----------
The data you have obtained from this automated U.S. Geological Survey database
have not received Director's approval and as such are provisional and subject to
revision. The data are released on the condition that neither the USGS nor the
United States Government may be held liable for any damages resulting from its use.
Additional info: http://waterdata.usgs.gov/nwis/help/?provisional
#
File-format description: http://waterdata.usgs.gov/nwis/?tab_delimited_format_info
Automated-retrieval info: http://waterdata.usgs.gov/nwis/?automated_retrieval_info
#
Contact: gs-w_support_nwisweb@usgs.gov
retrieved: 2010-06-26 09:42:32 EDT
#
Data for the following site(s) are contained in this file
USGS 02336360 NANCY CREEK AT RICKENBACKER DRIVE, AT ATLANTA, GA

#
Data provided for site 02336360
DD parameter Description
01 00065 Gage height, feet
02 00060 Discharge, cubic feet per second
03 00045 Precipitation, total, inches
#

agency_cd	site_no	datetime	tz_cd	01_00065	01_00065_cd	02_00060	02_00060_	03_00045	03_00045_
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USGS	2336360	6/8/2010 0:00	EST	0.72	11	0
USGS	2336360	6/8/2010 0:15	EST	0.72	11	0
USGS	2336360	6/8/2010 0:30	EST	0.72	11	0
USGS	2336360	6/8/2010 0:45	EST	0.72	11	0
USGS	2336360	6/8/2010 1:00	EST	0.72	11	0
USGS	2336360	6/8/2010 1:15	EST	0.72	11	0
USGS	2336360	6/8/2010 1:30	EST	0.71	11	0
USGS	2336360	6/8/2010 1:45	EST	0.72	11	0
USGS	2336360	6/8/2010 2:00	EST	0.71	11	0
USGS	2336360	6/8/2010 2:15	EST	0.71	11	0
USGS	2336360	6/8/2010 2:30	EST	0.72	11	0
USGS	2336360	6/8/2010 2:45	EST	0.72	11	0
USGS	2336360	6/8/2010 3:00	EST	0.72	11	0
USGS	2336360	6/8/2010 3:15	EST	0.72	11	0
USGS	2336360	6/8/2010 3:30	EST	0.72	11	0
USGS	2336360	6/8/2010 3:45	EST	0.71	11	0
USGS	2336360	6/8/2010 4:00	EST	0.71	11	0
USGS	2336360	6/8/2010 4:15	EST	0.71	11	0
USGS	2336360	6/8/2010 4:30	EST	0.71	11	0
USGS	2336360	6/8/2010 4:45	EST	0.71	11	0
USGS	2336360	6/8/2010 5:00	EST	0.71	11	0
USGS	2336360	6/8/2010 5:15	EST	0.71	11	0
USGS	2336360	6/8/2010 5:30	EST	0.71	11	0
USGS	2336360	6/8/2010 5:45	EST	0.71	11	0
USGS	2336360	6/8/2010 6:00	EST	0.71	11	0
USGS	2336360	6/8/2010 6:15	EST	0.71	11	0
USGS	2336360	6/8/2010 6:30	EST	0.71	11	0

USGS	2336360	6/8/2010 6:45	EST	0.71	11	0
USGS	2336360	6/8/2010 7:00	EST	0.71	11	0
USGS	2336360	6/8/2010 7:15	EST	0.72	11	0
USGS	2336360	6/8/2010 7:30	EST	0.72	11	0
USGS	2336360	6/8/2010 7:45	EST	0.72	11	0
USGS	2336360	6/8/2010 8:00	EST	0.72	11	0
USGS	2336360	6/8/2010 8:15	EST	0.72	11	0
USGS	2336360	6/8/2010 8:30	EST	0.72	11	0
USGS	2336360	6/8/2010 8:45	EST	0.72	11	0
USGS	2336360	6/8/2010 9:00	EST	0.72	11	0.02
USGS	2336360	6/8/2010 9:15	EST	0.73	11	0.02
USGS	2336360	6/8/2010 9:30	EST	0.73	11	0
USGS	2336360	6/8/2010 9:45	EST	0.73	11	0
USGS	2336360	6/8/2010 10:00	EST	0.73	11	0
USGS	2336360	6/8/2010 10:15	EST	0.73	11	0
USGS	2336360	6/8/2010 10:30	EST	0.73	11	0
USGS	2336360	6/8/2010 10:45	EST	0.73	11	0
USGS	2336360	6/8/2010 11:00	EST	0.73	11	0
USGS	2336360	6/8/2010 11:15	EST	0.73	11	0
USGS	2336360	6/8/2010 11:30	EST	0.73	11	0
USGS	2336360	6/8/2010 11:45	EST	0.73	11	0
USGS	2336360	6/8/2010 12:00	EST	0.73	11	0
USGS	2336360	6/8/2010 12:15	EST	0.73	11	0
USGS	2336360	6/8/2010 12:30	EST	0.73	11	0
USGS	2336360	6/8/2010 12:45	EST	0.73	11	0
USGS	2336360	6/8/2010 13:00	EST	0.73	11	0
USGS	2336360	6/8/2010 13:15	EST	0.73	11	0
USGS	2336360	6/8/2010 13:30	EST	0.73	11	0
USGS	2336360	6/8/2010 13:45	EST	0.72	11	0
USGS	2336360	6/8/2010 14:00	EST	0.73	11	0
USGS	2336360	6/8/2010 14:15	EST	0.73	11	0
USGS	2336360	6/8/2010 14:30	EST	0.73	11	0
USGS	2336360	6/8/2010 14:45	EST	0.73	11	0
USGS	2336360	6/8/2010 15:00	EST	0.73	11	0
USGS	2336360	6/8/2010 15:15	EST	0.72	11	0
USGS	2336360	6/8/2010 15:30	EST	0.73	11	0
USGS	2336360	6/8/2010 15:45	EST	0.73	11	0
USGS	2336360	6/8/2010 16:00	EST	0.72	11	0
USGS	2336360	6/8/2010 16:15	EST	0.72	11	0
USGS	2336360	6/8/2010 16:30	EST	0.72	11	0
USGS	2336360	6/8/2010 16:45	EST	0.72	11	0
USGS	2336360	6/8/2010 17:00	EST	0.72	11	0
USGS	2336360	6/8/2010 17:15	EST	0.72	11	0
USGS	2336360	6/8/2010 17:30	EST	0.72	11	0
USGS	2336360	6/8/2010 17:45	EST	0.72	11	0
USGS	2336360	6/8/2010 18:00	EST	0.72	11	0
USGS	2336360	6/8/2010 18:15	EST	0.72	11	0
USGS	2336360	6/8/2010 18:30	EST	0.72	11	0
USGS	2336360	6/8/2010 18:45	EST	0.72	11	0
USGS	2336360	6/8/2010 19:00	EST	0.72	11	0
USGS	2336360	6/8/2010 19:15	EST	0.72	11	0
USGS	2336360	6/8/2010 19:30	EST	0.72	11	0
USGS	2336360	6/8/2010 19:45	EST	0.72	11	0
USGS	2336360	6/8/2010 20:00	EST	0.72	11	0
USGS	2336360	6/8/2010 20:15	EST	0.72	11	0
USGS	2336360	6/8/2010 20:30	EST	0.72	11	0
USGS	2336360	6/8/2010 20:45	EST	0.72	11	0
USGS	2336360	6/8/2010 21:00	EST	0.72	11	0
USGS	2336360	6/8/2010 21:15	EST	0.72	11	0
USGS	2336360	6/8/2010 21:30	EST	0.72	11	0
USGS	2336360	6/8/2010 21:45	EST	0.72	11	0

USGS	2336360	6/8/2010 22:00	EST	0.72	11	0
USGS	2336360	6/8/2010 22:15	EST	0.72	11	0
USGS	2336360	6/8/2010 22:30	EST	0.72	11	0
USGS	2336360	6/8/2010 22:45	EST	0.72	11	0
USGS	2336360	6/8/2010 23:00	EST	0.72	11	0
USGS	2336360	6/8/2010 23:15	EST	0.72	11	0
USGS	2336360	6/8/2010 23:30	EST	0.72	11	0
USGS	2336360	6/8/2010 23:45	EST	0.72	11	0
USGS	2336360	6/9/2010 0:00	EST	0.71	11	0
USGS	2336360	6/9/2010 0:15	EST	0.72	11	0
USGS	2336360	6/9/2010 0:30	EST	0.71	11	0
USGS	2336360	6/9/2010 0:45	EST	0.72	11	0
USGS	2336360	6/9/2010 1:00	EST	0.72	11	0
USGS	2336360	6/9/2010 1:15	EST	0.72	11	0
USGS	2336360	6/9/2010 1:30	EST	0.71	11	0
USGS	2336360	6/9/2010 1:45	EST	0.71	11	0
USGS	2336360	6/9/2010 2:00	EST	0.71	11	0
USGS	2336360	6/9/2010 2:15	EST	0.72	11	0
USGS	2336360	6/9/2010 2:30	EST	0.71	11	0
USGS	2336360	6/9/2010 2:45	EST	0.71	11	0
USGS	2336360	6/9/2010 3:00	EST	0.71	11	0
USGS	2336360	6/9/2010 3:15	EST	0.72	11	0
USGS	2336360	6/9/2010 3:30	EST	0.71	11	0
USGS	2336360	6/9/2010 3:45	EST	0.71	11	0
USGS	2336360	6/9/2010 4:00	EST	0.72	11	0
USGS	2336360	6/9/2010 4:15	EST	0.72	11	0
USGS	2336360	6/9/2010 4:30	EST	0.71	11	0
USGS	2336360	6/9/2010 4:45	EST	0.72	11	0
USGS	2336360	6/9/2010 5:00	EST	0.71	11	0
USGS	2336360	6/9/2010 5:15	EST	0.72	11	0
USGS	2336360	6/9/2010 5:30	EST	0.71	11	0
USGS	2336360	6/9/2010 5:45	EST	0.71	11	0
USGS	2336360	6/9/2010 6:00	EST	0.72	11	0
USGS	2336360	6/9/2010 6:15	EST	0.71	11	0
USGS	2336360	6/9/2010 6:30	EST	0.72	11	0
USGS	2336360	6/9/2010 6:45	EST	0.72	11	0
USGS	2336360	6/9/2010 7:00	EST	0.72	11	0
USGS	2336360	6/9/2010 7:15	EST	0.72	11	0
USGS	2336360	6/9/2010 7:30	EST	0.72	11	0
USGS	2336360	6/9/2010 7:45	EST	0.72	11	0
USGS	2336360	6/9/2010 8:00	EST	0.72	11	0
USGS	2336360	6/9/2010 8:15	EST	0.72	11	0
USGS	2336360	6/9/2010 8:30	EST	0.71	11	0
USGS	2336360	6/9/2010 8:45	EST	0.72	11	0
USGS	2336360	6/9/2010 9:00	EST	0.72	11	0
USGS	2336360	6/9/2010 9:15	EST	0.72	11	0
USGS	2336360	6/9/2010 9:30	EST	0.72	11	0
USGS	2336360	6/9/2010 9:45	EST	0.72	11	0
USGS	2336360	6/9/2010 10:00	EST	0.72	11	0
USGS	2336360	6/9/2010 10:15	EST	0.72	11	0
USGS	2336360	6/9/2010 10:30	EST	0.72	11	0
USGS	2336360	6/9/2010 10:45	EST	0.72	11	0
USGS	2336360	6/9/2010 11:00	EST	0.73	11	0
USGS	2336360	6/9/2010 11:15	EST	0.73	11	0
USGS	2336360	6/9/2010 11:30	EST	0.73	11	0
USGS	2336360	6/9/2010 11:45	EST	0.73	11	0
USGS	2336360	6/9/2010 12:00	EST	0.73	11	0
USGS	2336360	6/9/2010 12:15	EST	0.73	11	0
USGS	2336360	6/9/2010 12:30	EST	0.73	11	0
USGS	2336360	6/9/2010 12:45	EST	0.72	11	0
USGS	2336360	6/9/2010 13:00	EST	0.72	11	0

USGS	2336360	6/9/2010 13:15	EST	0.73	11	0
USGS	2336360	6/9/2010 13:30	EST	0.72	11	0
USGS	2336360	6/9/2010 13:45	EST	0.72	11	0
USGS	2336360	6/9/2010 14:00	EST	0.73	11	0
USGS	2336360	6/9/2010 14:15	EST	0.73	11	0
USGS	2336360	6/9/2010 14:30	EST	0.72	11	0
USGS	2336360	6/9/2010 14:45	EST	0.72	11	0
USGS	2336360	6/9/2010 15:00	EST	0.72	11	0
USGS	2336360	6/9/2010 15:15	EST	0.72	11	0
USGS	2336360	6/9/2010 15:30	EST	0.72	11	0
USGS	2336360	6/9/2010 15:45	EST	0.72	11	0
USGS	2336360	6/9/2010 16:00	EST	0.72	11	0
USGS	2336360	6/9/2010 16:15	EST	0.72	11	0
USGS	2336360	6/9/2010 16:30	EST	0.72	11	0
USGS	2336360	6/9/2010 16:45	EST	0.72	11	0
USGS	2336360	6/9/2010 17:00	EST	0.72	11	0
USGS	2336360	6/9/2010 17:15	EST	0.72	11	0
USGS	2336360	6/9/2010 17:30	EST	0.73	11	0
USGS	2336360	6/9/2010 17:45	EST	0.75	12	0
USGS	2336360	6/9/2010 18:00	EST	0.78	14	0
USGS	2336360	6/9/2010 18:15	EST	0.85	17	0
USGS	2336360	6/9/2010 18:30	EST	1.01	28	0
USGS	2336360	6/9/2010 18:45	EST	1.85	134	0
USGS	2336360	6/9/2010 19:00	EST	2.46	251	0
USGS	2336360	6/9/2010 19:15	EST	2.79	323	0
USGS	2336360	6/9/2010 19:30	EST	2.92	350	0
USGS	2336360	6/9/2010 19:45	EST	2.93	352	0
USGS	2336360	6/9/2010 20:00	EST	2.86	338	0
USGS	2336360	6/9/2010 20:15	EST	2.73	311	0
USGS	2336360	6/9/2010 20:30	EST	2.59	278	0
USGS	2336360	6/9/2010 20:45	EST	2.46	251	0
USGS	2336360	6/9/2010 21:00	EST	2.32	223	0
USGS	2336360	6/9/2010 21:15	EST	2.18	196	0
USGS	2336360	6/9/2010 21:30	EST	2.05	171	0
USGS	2336360	6/9/2010 21:45	EST	1.96	154	0
USGS	2336360	6/9/2010 22:00	EST	1.87	137	0
USGS	2336360	6/9/2010 22:15	EST	1.79	123	0
USGS	2336360	6/9/2010 22:30	EST	1.7	108	0
USGS	2336360	6/9/2010 22:45	EST	1.66	102	0
USGS	2336360	6/9/2010 23:00	EST	1.61	94	0
USGS	2336360	6/9/2010 23:15	EST	1.56	87	0
USGS	2336360	6/9/2010 23:30	EST	1.51	81	0
USGS	2336360	6/9/2010 23:45	EST	1.48	76	0
USGS	2336360	6/10/2010 0:00	EST	1.43	70	0
USGS	2336360	6/10/2010 0:15	EST	1.41	68	0
USGS	2336360	6/10/2010 0:30	EST	1.37	62	0
USGS	2336360	6/10/2010 0:45	EST	1.35	60	0
USGS	2336360	6/10/2010 1:00	EST	1.32	57	0
USGS	2336360	6/10/2010 1:15	EST	1.3	55	0
USGS	2336360	6/10/2010 1:30	EST	1.29	54	0
USGS	2336360	6/10/2010 1:45	EST	1.27	51	0
USGS	2336360	6/10/2010 2:00	EST	1.24	48	0
USGS	2336360	6/10/2010 2:15	EST	1.22	46	0
USGS	2336360	6/10/2010 2:30	EST	1.2	44	0
USGS	2336360	6/10/2010 2:45	EST	1.18	43	0
USGS	2336360	6/10/2010 3:00	EST	1.17	42	0
USGS	2336360	6/10/2010 3:15	EST	1.15	39	0
USGS	2336360	6/10/2010 3:30	EST	1.14	38	0
USGS	2336360	6/10/2010 3:45	EST	1.12	37	0
USGS	2336360	6/10/2010 4:00	EST	1.12	37	0
USGS	2336360	6/10/2010 4:15	EST	1.11	36	0

USGS	2336360	6/10/2010 4:30	EST	1.09	34	0
USGS	2336360	6/10/2010 4:45	EST	1.08	33	0
USGS	2336360	6/10/2010 5:00	EST	1.07	33	0
USGS	2336360	6/10/2010 5:15	EST	1.05	30	0
USGS	2336360	6/10/2010 5:30	EST	1.05	30	0
USGS	2336360	6/10/2010 5:45	EST	1.04	30	0
USGS	2336360	6/10/2010 6:00	EST	1.03	29	0
USGS	2336360	6/10/2010 6:15	EST	1.02	28	0
USGS	2336360	6/10/2010 6:30	EST	1.02	28	0
USGS	2336360	6/10/2010 6:45	EST	1.01	28	0
USGS	2336360	6/10/2010 7:00	EST	1.01	28	0
USGS	2336360	6/10/2010 7:15	EST	1	27	0
USGS	2336360	6/10/2010 7:30	EST	0.99	26	0
USGS	2336360	6/10/2010 7:45	EST	0.99	26	0
USGS	2336360	6/10/2010 8:00	EST	0.98	25	0
USGS	2336360	6/10/2010 8:15	EST	0.97	25	0
USGS	2336360	6/10/2010 8:30	EST	0.97	25	0
USGS	2336360	6/10/2010 8:45	EST	0.96	24	0
USGS	2336360	6/10/2010 9:00	EST	0.96	24	0
USGS	2336360	6/10/2010 9:15	EST	0.96	24	0
USGS	2336360	6/10/2010 9:30	EST	0.95	23	0
USGS	2336360	6/10/2010 9:45	EST	0.94	23	0
USGS	2336360	6/10/2010 10:00	EST	0.94	23	0
USGS	2336360	6/10/2010 10:15	EST	0.94	23	0
USGS	2336360	6/10/2010 10:30	EST	0.93	22	0
USGS	2336360	6/10/2010 10:45	EST	0.93	22	0
USGS	2336360	6/10/2010 11:00	EST	0.92	22	0
USGS	2336360	6/10/2010 11:15	EST	0.93	22	0
USGS	2336360	6/10/2010 11:30	EST	0.92	22	0
USGS	2336360	6/10/2010 11:45	EST	0.92	22	0
USGS	2336360	6/10/2010 12:00	EST	0.91	21	0
USGS	2336360	6/10/2010 12:15	EST	0.91	21	0
USGS	2336360	6/10/2010 12:30	EST	0.9	20	0
USGS	2336360	6/10/2010 12:45	EST	0.9	20	0
USGS	2336360	6/10/2010 13:00	EST	0.89	20	0
USGS	2336360	6/10/2010 13:15	EST	0.89	20	0
USGS	2336360	6/10/2010 13:30	EST	0.89	20	0
USGS	2336360	6/10/2010 13:45	EST	0.88	19	0
USGS	2336360	6/10/2010 14:00	EST	0.88	19	0
USGS	2336360	6/10/2010 14:15	EST	0.88	19	0
USGS	2336360	6/10/2010 14:30	EST	0.88	19	0
USGS	2336360	6/10/2010 14:45	EST	0.88	19	0
USGS	2336360	6/10/2010 15:00	EST	0.91	21	0
USGS	2336360	6/10/2010 15:15	EST	0.96	24	0.01
USGS	2336360	6/10/2010 15:30	EST	1.14	38	0.01
USGS	2336360	6/10/2010 15:45	EST	1.2	44	0
USGS	2336360	6/10/2010 16:00	EST	1.23	47	0
USGS	2336360	6/10/2010 16:15	EST	1.24	48	0
USGS	2336360	6/10/2010 16:30	EST	1.22	46	0
USGS	2336360	6/10/2010 16:45	EST	1.19	44	0
USGS	2336360	6/10/2010 17:00	EST	1.16	40	0
USGS	2336360	6/10/2010 17:15	EST	1.13	38	0
USGS	2336360	6/10/2010 17:30	EST	1.11	36	0
USGS	2336360	6/10/2010 17:45	EST	1.1	35	0
USGS	2336360	6/10/2010 18:00	EST	1.12	37	0
USGS	2336360	6/10/2010 18:15	EST	1.15	39	0
USGS	2336360	6/10/2010 18:30	EST	1.17	42	0
USGS	2336360	6/10/2010 18:45	EST	1.17	42	0
USGS	2336360	6/10/2010 19:00	EST	1.15	39	0
USGS	2336360	6/10/2010 19:15	EST	1.13	38	0
USGS	2336360	6/10/2010 19:30	EST	1.11	36	0

USGS	2336360	6/10/2010 19:45	EST	1.09	34	0
USGS	2336360	6/10/2010 20:00	EST	1.07	33	0
USGS	2336360	6/10/2010 20:15	EST	1.05	30	0
USGS	2336360	6/10/2010 20:30	EST	1.04	30	0
USGS	2336360	6/10/2010 20:45	EST	1.03	29	0
USGS	2336360	6/10/2010 21:00	EST	1.02	28	0
USGS	2336360	6/10/2010 21:15	EST	1	27	0
USGS	2336360	6/10/2010 21:30	EST	1	27	0
USGS	2336360	6/10/2010 21:45	EST	0.99	26	0
USGS	2336360	6/10/2010 22:00	EST	0.98	25	0
USGS	2336360	6/10/2010 22:15	EST	0.97	25	0
USGS	2336360	6/10/2010 22:30	EST	0.96	24	0
USGS	2336360	6/10/2010 22:45	EST	0.95	23	0
USGS	2336360	6/10/2010 23:00	EST	0.95	23	0
USGS	2336360	6/10/2010 23:15	EST	0.94	23	0
USGS	2336360	6/10/2010 23:30	EST	0.93	22	0
USGS	2336360	6/10/2010 23:45	EST	0.93	22	0
USGS	2336360	6/11/2010 0:00	EST	0.92	22	0
USGS	2336360	6/11/2010 0:15	EST	0.91	21	0
USGS	2336360	6/11/2010 0:30	EST	0.91	21	0
USGS	2336360	6/11/2010 0:45	EST	0.9	20	0
USGS	2336360	6/11/2010 1:00	EST	0.9	20	0
USGS	2336360	6/11/2010 1:15	EST	0.89	20	0
USGS	2336360	6/11/2010 1:30	EST	0.89	20	0
USGS	2336360	6/11/2010 1:45	EST	0.89	20	0
USGS	2336360	6/11/2010 2:00	EST	0.88	19	0
USGS	2336360	6/11/2010 2:15	EST	0.88	19	0
USGS	2336360	6/11/2010 2:30	EST	0.87	19	0
USGS	2336360	6/11/2010 2:45	EST	0.87	19	0
USGS	2336360	6/11/2010 3:00	EST	0.87	19	0
USGS	2336360	6/11/2010 3:15	EST	0.87	19	0
USGS	2336360	6/11/2010 3:30	EST	0.87	19	0
USGS	2336360	6/11/2010 3:45	EST	0.86	18	0
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USGS	2336360	6/11/2010 4:15	EST	0.86	18	0
USGS	2336360	6/11/2010 4:30	EST	0.85	17	0
USGS	2336360	6/11/2010 4:45	EST	0.85	17	0
USGS	2336360	6/11/2010 5:00	EST	0.85	17	0
USGS	2336360	6/11/2010 5:15	EST	0.85	17	0
USGS	2336360	6/11/2010 5:30	EST	0.84	17	0
USGS	2336360	6/11/2010 5:45	EST	0.84	17	0
USGS	2336360	6/11/2010 6:00	EST	0.84	17	0
USGS	2336360	6/11/2010 6:15	EST	0.84	17	0
USGS	2336360	6/11/2010 6:30	EST	0.83	16	0
USGS	2336360	6/11/2010 6:45	EST	0.84	17	0
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USGS	2336360	6/11/2010 7:15	EST	0.83	16	0
USGS	2336360	6/11/2010 7:30	EST	0.83	16	0
USGS	2336360	6/11/2010 7:45	EST	0.83	16	0
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USGS	2336360	6/11/2010 8:15	EST	0.83	16	0
USGS	2336360	6/11/2010 8:30	EST	0.83	16	0
USGS	2336360	6/11/2010 8:45	EST	0.82	16	0
USGS	2336360	6/11/2010 9:00	EST	0.82	16	0
USGS	2336360	6/11/2010 9:15	EST	0.82	16	0
USGS	2336360	6/11/2010 9:30	EST	0.82	16	0
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USGS	2336360	6/11/2010 14:45	EST	0.87	19	0
USGS	2336360	6/11/2010 15:00	EST	0.88	19	0
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USGS	2336360	6/11/2010 15:30	EST	0.86	18	0
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USGS	2336360	6/11/2010 16:00	EST	0.85	17	0
USGS	2336360	6/11/2010 16:15	EST	0.84	17	0
USGS	2336360	6/11/2010 16:30	EST	0.83	16	0
USGS	2336360	6/11/2010 16:45	EST	0.82	16	0
USGS	2336360	6/11/2010 17:00	EST	0.83	16	0
USGS	2336360	6/11/2010 17:15	EST	0.84	17	0
USGS	2336360	6/11/2010 17:30	EST	0.84	17	0
USGS	2336360	6/11/2010 17:45	EST	0.84	17	0
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USGS	2336360	6/11/2010 19:30	EST	0.87	19	0
USGS	2336360	6/11/2010 19:45	EST	0.86	18	0
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USGS	2336360	6/11/2010 20:30	EST	0.87	19	0
USGS	2336360	6/11/2010 20:45	EST	0.87	19	0
USGS	2336360	6/11/2010 21:00	EST	0.88	19	0
USGS	2336360	6/11/2010 21:15	EST	0.87	19	0
USGS	2336360	6/11/2010 21:30	EST	0.87	19	0
USGS	2336360	6/11/2010 21:45	EST	0.87	19	0
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USGS	2336360	6/11/2010 22:45	EST	0.85	17	0
USGS	2336360	6/11/2010 23:00	EST	0.85	17	0
USGS	2336360	6/11/2010 23:15	EST	0.84	17	0
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USGS	2336360	6/12/2010 8:15	EST	0.77	13	0
USGS	2336360	6/12/2010 8:30	EST	0.77	13	0
USGS	2336360	6/12/2010 8:45	EST	0.77	13	0
USGS	2336360	6/12/2010 9:00	EST	0.77	13	0
USGS	2336360	6/12/2010 9:15	EST	0.77	13	0
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USGS	2336360	6/12/2010 10:30	EST	0.77	13	0
USGS	2336360	6/12/2010 10:45	EST	0.77	13	0
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USGS	2336360	6/12/2010 11:45	EST	0.76	13	0
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USGS	2336360	6/12/2010 12:15	EST	0.77	13	0
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USGS	2336360	6/12/2010 12:45	EST	0.76	13	0
USGS	2336360	6/12/2010 13:00	EST	0.76	13	0
USGS	2336360	6/12/2010 13:15	EST	0.76	13	0
USGS	2336360	6/12/2010 13:30	EST	0.76	13	0
USGS	2336360	6/12/2010 13:45	EST	0.76	13	0
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USGS	2336360	6/12/2010 14:15	EST	0.76	13	0
USGS	2336360	6/12/2010 14:30	EST	0.76	13	0
USGS	2336360	6/12/2010 14:45	EST	0.76	13	0
USGS	2336360	6/12/2010 15:00	EST	0.76	13	0
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USGS	2336360	6/12/2010 18:30	EST	0.75	12	0
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USGS	2336360	6/12/2010 19:15	EST	0.74	12	0
USGS	2336360	6/12/2010 19:30	EST	0.74	12	0
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USGS	2336360	6/12/2010 23:45	EST	0.73	11	0
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USGS	2336360	6/13/2010 0:15	EST	0.73	11	0
USGS	2336360	6/13/2010 0:30	EST	0.73	11	0
USGS	2336360	6/13/2010 0:45	EST	0.73	11	0
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USGS	2336360	6/13/2010 7:45	EST	0.72	11	0
USGS	2336360	6/13/2010 8:00	EST	0.72	11	0
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USGS	2336360	6/13/2010 8:45	EST	0.72	11	0
USGS	2336360	6/13/2010 9:00	EST	0.71	11	0
USGS	2336360	6/13/2010 9:15	EST	0.71	11	0
USGS	2336360	6/13/2010 9:30	EST	0.71	11	0
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USGS	2336360	6/13/2010 10:30	EST	0.71	11	0
USGS	2336360	6/13/2010 10:45	EST	0.72	11	0
USGS	2336360	6/13/2010 11:00	EST	0.71	11	0
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USGS	2336360	6/13/2010 17:15	EST	0.71	11	0
USGS	2336360	6/13/2010 17:30	EST	0.7	10	0
USGS	2336360	6/13/2010 17:45	EST	0.7	10	0
USGS	2336360	6/13/2010 18:00	EST	0.7	10	0
USGS	2336360	6/13/2010 18:15	EST	0.7	10	0
USGS	2336360	6/13/2010 18:30	EST	0.7	10	0
USGS	2336360	6/13/2010 18:45	EST	0.7	10	0
USGS	2336360	6/13/2010 19:00	EST	0.7	10	0
USGS	2336360	6/13/2010 19:15	EST	0.7	10	0
USGS	2336360	6/13/2010 19:30	EST	0.7	10	0
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USGS	2336360	6/13/2010 20:45	EST	0.7	10	0
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USGS	2336360	6/13/2010 21:45	EST	0.69	9.7	0
USGS	2336360	6/13/2010 22:00	EST	0.69	9.7	0
USGS	2336360	6/13/2010 22:15	EST	0.69	9.7	0
USGS	2336360	6/13/2010 22:30	EST	0.69	9.7	0
USGS	2336360	6/13/2010 22:45	EST	0.69	9.7	0
USGS	2336360	6/13/2010 23:00	EST	0.69	9.7	0
USGS	2336360	6/13/2010 23:15	EST	0.69	9.7	0
USGS	2336360	6/13/2010 23:30	EST	0.68	9.3	0
USGS	2336360	6/13/2010 23:45	EST	0.69	9.7	0

Appendix D
EPD 2004 Site Inspection Memorandum

Georgia Department of Natural Resources
2 MLK, Jr., DR., S.E., Atlanta, Georgia 30334
Lonice C. Barrett, Commissioner
Environmental Protection Division
Carol A. Couch, PhD, Director
404/656-2833 404/656-7802

May 19, 2004

MEMORANDUM

TO: David Brownlee

THRU: Dave Yardumian

FROM: Bob Pierce

RE: Fashion Care/Executive Care Property Field Inspection Report.

Date of Inspection: May 19, 2004

Accompanied by: Martha Pierce

Arrived at the Fashion Care property at 9:30 AM. The property is located at 2211 Savoy Drive, Chamblee, Dekalb County, Georgia. The name on the facility is now Clothing Care Cleaners. The following bound the site:

North:	Savoy Drive
South:	Nancy Creek
East:	North Peachtree Road
West:	China Express and Mad Italian Restaurants plus various businesses.

Site Characteristics

The site had no fencing around it. The company building was surrounded by an asphalt-paved parking lot. The asphalt was observed to be in good condition with only some minor cracks. The monitoring wells in Figure 2 (Site Plan) were observed to be at the locations marked in the Figure. All wells were flush mount. The Shell Gas Station on the figure is now a Mobile Station and the Texaco Gas Station is now a Shell Station.

Residential Property

The property is surrounded predominately by businesses and no residential property was observed within 300 feet of the site.

Nearest Well

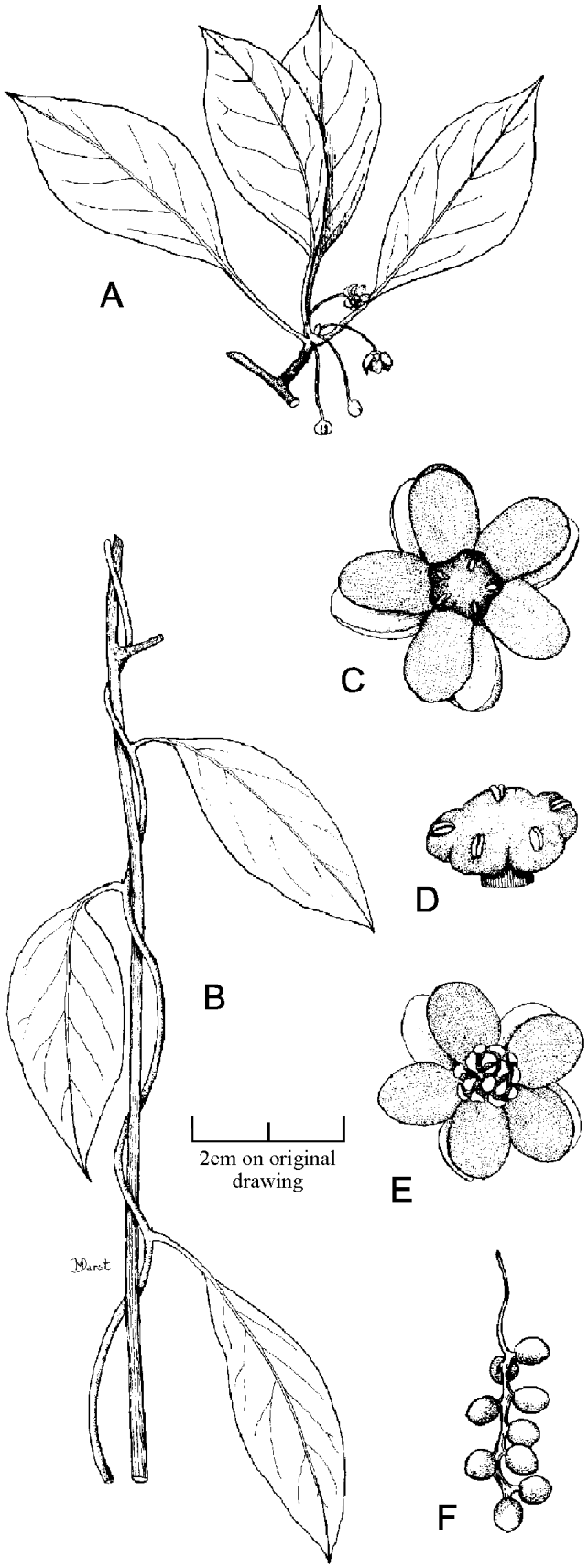
A well survey revealed no well within 3 miles of the site. This area of north Dekalb County and adjacent Fulton County is highly developed with new strip malls, full size shopping malls (e.g., Perimeter Mall), high density and high-end homes, medical facilities (e.g., St Joseph's Medical Center), churches, schools and other new development. We conducted a house-to-house well survey in the vicinity of the reported J.S. Wooten domestic well location near the intersection of Tilly Mill and Womack Roads but could find no trace of it. Most of this area is occupied by Georgia Perimeter College (Dunwoody Campus), a private school (The Weber School) and new construction. We spoke with a Dekalb County building inspector working in the area and she knew of no wells in the area. We all concluded that if there had been a well in the area it had been removed by development. The inspector stated that all residences in the area were on Dekalb County water.

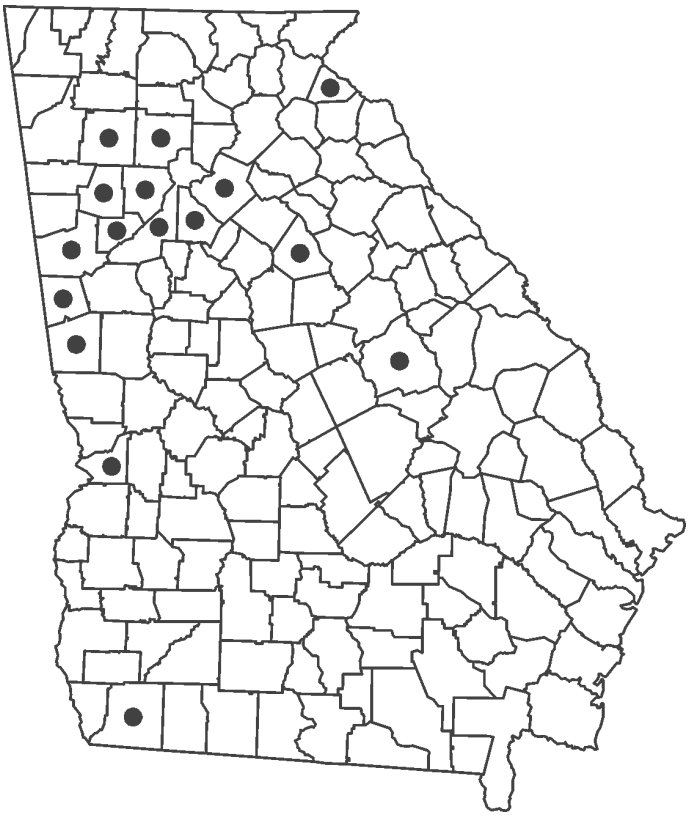
Appendix E
Threatened Species Information

Schisandra glabra (Brickell) Rehder

Bay Star-vine, Climbing Magnolia, Wild Sarsaparilla

Star-vine Family, SCHISANDRACEAE





LEGAL STATUS:
State: THREATENED
Federal: None

SYNONYMY:
Schisandra coccinea Michaux

RANGE: Scattered in the Southeast: on the Coastal Plain from the Mississippi Embayment in Arkansas and Tennessee, south to Louisiana and east to northeastern North Carolina; on the Piedmont Plateau of Georgia; and disjunct on the Cumberland Plateau of southcentral Kentucky. Recorded from 16 counties in Georgia (see map).

ILLUSTRATION: (A) flowering shoot, 0.5x; (B) portion of vine, 0.5x; note twining stem without tendrils; (C) male flower, 4x; (D) stamens, fused into a pentagonal shield, 8x; (E) female flower, 4x; (F) cluster of fruits, as formed from a single flower, 0.8x. Source: Godfrey (1988), drawn by Melanie Darst and used with permission.

DESCRIPTION: Deciduous, woody vine. *Schisandra glabra* has stems to 3 cm thick, twining up to the crowns of trees or trailing along the ground. Sometimes large clumps of leaves form a ground cover, resembling a sprawling Virginia creeper or woodbine (*Parthenocissus quinquefolia*). The leaves are up to 15 cm long and 6 cm wide, ovate to elliptic, with sparsely toothed margins, and

are sweet-smelling when crushed. The leaves are alternate, but are close together on the slower growing secondary branchlets ("spur shoots"). Both male and female flowers occur on the same plant (monoecious), and droop on long, delicate flower stalks arising from the leaf axils of mature vines (see illustration). The 9-12 petals are 5-8 mm long, greenish outside and crimson-colored within. The fruit is an aggregate of red berries on an axis that elongates during ripening (see illustration). **Flowering period**: May to June; **fruiting period**: July to August. **Best search time**: from late spring to middle summer, since leaves tend to fall early.

HABITAT: Found twining over understory trees and shrubs in rich, forested bottomlands and adjacent lower slopes; sometimes older vines occur on trunks of overstory trees, or sprawl along the ground forming patches rooted in the litter, especially near mountain laurel (*Kalmia latifolia*) thickets.

SPECIAL IDENTIFICATION FEATURES: Bay star-vine can easily be confused with climbing hydrangea (*Decumaria barbara*), a quite common vine. The difference between the two is that *D. barbara* has opposite leaves and climbs by means of aerial roots, while *S. glabra* has alternate leaves and climbs only by twining. Both vines occupy similar habitats. The flowers of climbing hydrangea are showy, white, and in flat-topped clusters. In contrast, the flowers of bay star-vine are inconspicuous, maroon, and either solitary or in loose clusters.

MANAGEMENT RECOMMENDATIONS: Avoid disturbance. At most this species will tolerate only hand thinning of trees in its immediate vicinity, and only if done carefully. Control exotic weeds, especially Japanese honeysuckle.

REMARKS: John Brickell, a physician and amateur botanist, described this species in 1803, based upon collections from near Savannah, where he lived, and from Beaufort, South Carolina. Like croomia (*Croomia pauciflora*), twinleaf (*Jeffersonia diphylla*), and Oconee bells (*Shortia galacifolia*), the closest living relatives of this species are found in Asia. *Schisandra* and, for example, *Illicium*, *Isoetes*, and *Torreya* are described by many as "primitive" because they share some significant characteristics with fossil forms that are many millions of years old. Others dislike such terms as "primitive" (or "lower plants" for ferns, mosses, etc.), feeling that these labels have some negative connotations. After all, plants such as these have demonstrated a perfection of adaptation that has enabled them to survive through eons when many evolutionary innovations have been tried and found wanting! *Schisandra glabra* is rare throughout its range and has sustained significant habitat loss due to clearing of hardwood forest for conversion to agricultural land or pine plantation.

SELECTED REFERENCES

Duncan, W. H. 1975. Woody Vines of the Southeastern United States. University of Georgia Press, Athens. 76 pp.

Ettman, D. 1980. A study of *Schisandra glabra* (Brickell) Rehder, a rare species endemic to the southeastern United States. Unpublished M.S. thesis, Emory University, Atlanta, Georgia. 134 pp.

Godfrey, R. K. 1988. Trees, Shrubs, and Woody Vines of Northern Florida and Adjacent Georgia and Alabama. University of Georgia Press, Athens. 734 pp.

Kral, R. 1983. A report on some rare, threatened, or endangered forest-related vascular plants of the South. Technical Publication R8-TP2. United States Forest Service, Atlanta, Georgia. 1305 pp.

Radford, A. E., H. E. Ahles, and C. R. Bell. 1968. Manual of the Vascular Flora of the Carolinas. University of North Carolina Press, Chapel Hill. 1183 pp.

Stone, D. E. 1968. Cytological and morphological notes on the southeastern endemic *Schisandra glabra* (Schisandraceae). Journal of the Elisha Mitchell Scientific Society 84:351-356.

Taylor, D. D. 1994. *Schisandra glabra* (Schisandraceae) new to Kentucky. Sida 16:213-214.

Wood, C. E., Jr. 1958. The genera of the woody Ranales in the southeastern United States. Journal of the Arnold Arboretum 39:296-346.

Appendix F
Draft Environmental Covenants

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE
Suite 1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor: The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
P.O. Box 82
Rancho Santa Fe, CA 92067

Grantee/Holder: <Company Name or individual(s)>
<Mailing address>

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1152 East Tower
Atlanta, GA 30334

Parties with interest in the Property: <Company Name or individual(s)>
<Mailing address>

Property:

The property subject to this Environmental Covenant is the Fashion Care/Executive Care Tract (hereinafter "Property"), located at 2211 Savoy Drive in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on November 7, 2003 from Business Associates, Inc., a Georgia Corporation to John F. Rowan recorded in Deed Book 15562, Page 660, DeKalb County Records. The area is located in Land Lot 343 of the 18th District of DeKalb County, Georgia. The property consists of approximately 0.61 acres of property developed with a single, one-story building that contains a drycleaner on the west side and a restaurant on the east side. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-343-13-002 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document[s]:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786

These documents are available at the following locations:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by the Trust of John F. Rowan, Sr., its successors and assigns, <name of Grantee/Holder>, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of Vinyl chloride, Dichloroethylene, N.O.S., Tetrachloroethene, and Trichloroethene in soil and groundwater, and trans- 1, 2-Dichloroethene in soil occurred on the Property. Vinyl chloride, Dichloroethylene, N.O.S., Tetrachloroethene, Trichloroethene and trans- 1, 2-Dichloroethene (collectively, "Constituents of Concern, or "COI") are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules", respectively). The Corrective Action consists of the installation and maintenance of engineering controls (a vapor collection system will be installed beneath the existing building) and institutional controls (limit use to non-residential activities) to protect human health and the environment.

Grantor, the Trust of John F. Rowan, Sr. (hereinafter "Trust"), hereby binds Grantor, its successors and assigns to the activity and use restriction(s) for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the <name of Holder> and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq*., and the rules promulgated thereunder. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from excising any authority under applicable law.

The Trust makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land,

pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of <name of Holder>, EPD, Trust and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, <name of Holder> or its successors and assigns, the Trust or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, apply for building permit(s), or propose any site work that would affect the Property.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant.

4. Periodic Reporting. Annually, by no later than <date> following the effective date of this Environmental Covenant, the Owner shall submit to EPD an Annual Report as specified in the EPD approved Point of Compliance Monitoring Plan including: groundwater detection-monitoring report results, maintenance and inspection activities, certification of non-residential use of the Property, and documentation stating whether or not the activity and use limitations in this Environmental Covenant are being abided by.

5. Activity and Use Limitation(s). The Property shall be used only for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any residential use on the Property shall be prohibited. A vapor barrier shall be installed and maintained prior to and during the construction of any enclosed structures until COI in groundwater at the Property reach HSRA residential risk reduction standards.

6. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless COI are treated to below HSRA residential risk reduction standards.

7. Permanent Markers. Permanent markers on each side of the Property shall be installed and maintained that delineate the restricted area as specified in Section 391-3-19-.07(10) of the Rules. Disturbance or removal of such markers is prohibited.

8. Right of Access. In addition to any rights already possessed by EPD and/or the <name of Holder>, the Owner shall allow authorized representatives of EPD and/or <name of Holder> the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

9. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) <name of Holder>, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

10. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 Risk Reduction Standards, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

11. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

12. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 10 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1154 East Tower
Atlanta, GA 30334

<name and mailing address of Holder>

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

The Trust of John F. Rowan, Sr.

_____
[Name of Signatory]
[Title]

Dated: _____

<NAME OF HOLDER>

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

Exhibit A
Legal Description

All that tract or parcel of land lying and being in Land Lot 343 of the 18th District of DeKalb County, Georgia and being more particularly described as follows: Beginning at an iron pin on the westerly line of the right of way of North Peachtree Road (which line is 35 feet westerly from the center line of said road) and on the line dividing Land Lots 343 and 334; and running thence along said Land Lot line South, 89 degrees 53 minutes West, 213 feet to an iron pin; thence North 22 degrees 15 minutes West, 158.85 feet to an iron pin; thence North 15 degrees 11 minutes East, 120 feet to an iron pin on the southerly line of the right of way of I-285; thence South 74 degrees 49 minutes East along the southerly right of way of I-285, 100 feet to an iron pin; thence South 15 degrees 11 minutes West, 990 feet to an iron pin; thence South 23 degrees 25 minutes 30 seconds East, 111.6 feet to an iron pin; thence South 60 degrees 44 minutes East, 60 feet to an iron pin; thence North 89 degrees 53 minutes East, 75 feet to an iron pin on the westerly right of way of North Peachtree Road; thence along said right of way South 9 degrees 17 minutes 30 seconds West, 18 feet to the POINT OF BEGINNING. According to a Plat by Earnest L. Boggus dated June 14, 1968, revised April 10, 1969, revised May 8, 1970. Subject to covenants, easements and restrictions of record and to utility easements.

This is the same property conveyed by Business Associates, Inc. to CJH Capital Corporation by Warranty Deed dated September 21, 1987, recorded in Deed Book 5954, page 189, Clerk's Office, DeKalb County Superior Court.

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE
Suite 1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor: ASL Limited Partnership
1515 S. Federal Hwy. 300
Boca Raton, FL 33432-7451

Grantee/Holder: <Company Name or individual(s)>
<Mailing address>

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1152 East Tower
Atlanta, GA 30334

Parties with interest in the Property: <Company Name or individual(s)>
<Mailing address>

Property:

The property subject to this Environmental Covenant is the ASL Limited Partnership Tract (hereinafter "Property"), located on the 4200 – 4300 Block of North Shallowford Road, in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on _____ from ____ to ____ recorded in Deed Book ___, Page ___, DeKalb County Records. The area is located in Land Lot 334 of the 18th District of DeKalb County, Georgia. The property consists of approximately --- acres of undeveloped property. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-333-02-023 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786

This document is available at the following location:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq.* by ASL Limited Partnership, its successors and assigns, <name of Grantee/Holder>, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of Vinyl chloride, Dichloroethylene, N.O.S., Tetrachloroethene, and Trichloroethene in soil and groundwater, and trans- 1, 2-Dichloroethene in soil occurred on the Property. Vinyl chloride, Dichloroethylene, N.O.S., Tetrachloroethene, Trichloroethene and trans- 1, 2-Dichloroethene (collectively, "Constituents of Concern," or "COI") are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules", respectively). The Corrective Action consists of institutional controls (limit use to non-residential activities) to protect human health and the environment.

Grantor, ASL Limited Partnership (hereinafter "ASL"), hereby binds Grantor, its successors and assigns to the activity and use restrictions for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the <name of Holder> and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from excising any authority under applicable law.

ASL makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land,

pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of <name of Holder>, EPD, ASL and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, <name of Holder> or its successors and assigns, ASL or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, apply for building permit(s), or propose any site work that would affect the Property.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant.

4. Activity and Use Limitation(s). The Property shall be used only for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any residential use on the Property shall be prohibited. A vapor barrier shall be installed and maintained prior to and during the construction of any enclosed structures until COI in groundwater at the Property reach HSRA residential risk reduction standards.

5. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless COI are treated to below HSRA residential risk reduction standards.

6. Permanent Markers. Permanent markers on each side of the Property shall be installed and maintained that delineate the restricted area as specified in Section 391-3-19-.07(10) of the Rules. Disturbance or removal of such markers is prohibited.

7. Right of Access. In addition to any rights already possessed by EPD and/or the <name of Holder>, the Owner shall allow authorized representatives of EPD and/or <name of Holder> the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

8. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) <name of Holder>, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

9. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 Risk Reduction Standards, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

10. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

11. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 10 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or

other law regulating use of the Property; and

g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1154 East Tower
Atlanta, GA 30334

<name and mailing address of Holder>

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

ASL Limited Partnership

_____
[Name of Signatory]
[Title]

Dated: _____

<NAME OF HOLDER>

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

Exhibit A
Legal Description

[to be provided by ASL Limited Partnership]

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE
Suite 1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor: Georgia-Alabama Commercial Investments, LLC
2875 University Parkway
Lawrenceville, Georgia 30043

Grantee/Holder: <Company Name or individual(s)>
<Mailing address>

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1152 East Tower
Atlanta, GA 30334

Parties with interest in the Property: <Company Name or individual(s)>
<Mailing address>

Property:

The property subject to this Environmental Covenant is the EZ Serv Tract (hereinafter "Property"), located at 4308 North Peachtree Road, in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on _____ from ____ to ____ recorded in Deed Book ___, Page ___, DeKalb County Records. The area is located in Land Lot 343 of the 18th District of DeKalb County, Georgia. The property consists of approximately --- acres of property developed with an EZ Serve gasoline service station. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-343-13-001 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786

This document is available at the following location:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq.* by Georgia-Alabama Commercial Investments, LLC, its successors and assigns, <name of Grantee/Holder>, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of Vinyl chloride, Dichloroethylene, N.O.S., Tetrachloroethene, and Trichloroethene in soil and groundwater, and trans- 1, 2-Dichloroethene in soil occurred on the Property. Vinyl chloride, Dichloroethylene, N.O.S., Tetrachloroethene, Trichloroethene and trans- 1, 2-Dichloroethene (collectively, "Constituents of Concern," or "COI") are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules", respectively). The Corrective Action consists of institutional controls (limit use to non-residential activities) to protect human health and the environment.

Grantor, Georgia-Alabama Commercial Investments, LLC (hereinafter "GACI"), hereby binds Grantor, its successors and assigns to the activity and use restrictions for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the <name of Holder> and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from excising any authority under applicable law.

GACI makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land,

pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of <name of Holder>, EPD, GACI and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, <name of Holder> or its successors and assigns, GACI or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, apply for building permit(s), or propose any site work that would affect the Property.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant.

4. Activity and Use Limitation(s). The Property shall be used only for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any residential use on the Property shall be prohibited. A vapor barrier shall be installed and maintained prior to and during the construction of any enclosed structures until COI in groundwater at the Property reach HSRA residential risk reduction standards.

5. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless COI are treated to below HSRA residential risk reduction standards.

6. Permanent Markers. Permanent markers on each side of the Property shall be installed and maintained that delineate the restricted area as specified in Section 391-3-19-.07(10) of the Rules. Disturbance or removal of such markers is prohibited.

7. Right of Access. In addition to any rights already possessed by EPD and/or the <name of Holder>, the Owner shall allow authorized representatives of EPD and/or <name of Holder> the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

8. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) <name of Holder>, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

9. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 Risk Reduction Standards, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

10. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

11. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 10 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or

other law regulating use of the Property; and

g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1154 East Tower
Atlanta, GA 30334

<name and mailing address of Holder>

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

Georgia-Alabama Commercial Investments, LLC

_____
[Name of Signatory]
[Title]

Dated: _____

<NAME OF HOLDER>

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

Exhibit A
Legal Description

ALL THAT TRACT OR PARCEL OF LAND lying and being in Land Lot 343 of the 18th District, DeKalb County, Georgia, according to an ALTA/ACSM Land Title Survey for Metro Atlanta Commercial Properties, LLC, Fidelity National Bank and Lawyers Title Insurance Corporation prepared by Busbee Land Surveying Co., Inc. by Ricky C. Busbee (G.R.L.S., No. 2497), dated December 14, 1997, as last revised March 21, 2003, and being more particularly described according to said survey as follows:

BEGINNING at a point marked by an one-half inch rebar found located on the westerly right-of-way line of North Peachtree Road (70' R/W), said point being located 18.00 feet in a generally northeasterly direction along said right-of-way line of North Peachtree Road from its intersection with the Land Lot Line common to Land Lots 334 and 343, leaving the aforesaid right-of-way line of North Peachtree Road, run thence South 89 degrees 53 minutes 00 seconds West a distance of 75.00 feet to a one-half inch rebar found; run thence North 60 degrees 44 minutes 00 seconds West a distance of 60.00 feet to a one-half inch rebar found; run thence North 23 degrees 25 minutes 30 seconds West a distance 111.60 feet to an iron pin placed; run thence North 15 degrees 11 minutes 06 seconds East a distance of 90.00 feet to a point located on the southwesterly right-of-way line of I-285 Access Road Circumferential Highway (R/W Varies); run thence along the aforesaid right-of-way line South 74 degrees 49 minutes 00 seconds East a distance of 112.00 feet to an iron pin placed located at the northwesternmost point of a mitered intersection oft the aforesaid right-of-way line of I-285 Access Road Circumferential Highway and the aforesaid westerly right-of-way line of North Peachtree Road; run thence along said miter South 23 degrees 23 minutes 55 seconds East a distance of 129.70 feet to a point marked by an iron pin placed, said point being the southeasternmost point of the aforesaid mitered intersection and being located on the aforesaid right-of-way line of North Peachtree Road; run thence along the aforesaid right-of-way line South 09 degrees 17 minutes 30 seconds West a distance of 71.00 feet to a point marked by a one-half inch rebar found, said point being the true place or point of BEGINNING.

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE
Suite 1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor: Southern Automatic Company
4420 Tree Haven Drive, N.E.
Atlanta, Georgia 30342-3426

Grantee/Holder: <Company Name or individual(s)>
<Mailing address>

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1152 East Tower
Atlanta, GA 30334

Parties with interest in the Property: <Company Name or individual(s)>
<Mailing address>

Property:

The property subject to this Environmental Covenant is the Southern Automatic Company N. Peachtree Tract (hereinafter "Property"), located at 4306 N. Peachtree Road, in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on _____ from ____ to ____ recorded in Deed Book ___, Page ___, DeKalb County Records. The area is located in Land Lot 343 of the 18th District of DeKalb County, Georgia. The property consists of approximately 0.51 acres of property developed with a single, one-story building that contains a dentist office, a beauty shop, and other retail stores. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-343-13-005 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786

This document is available at the following location:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq.* by Southern Automatic Company, its successors and assigns, <name of Grantee/Holder>, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of Vinyl chloride, Dichloroethylene, N.O.S., Tetrachloroethene, and Trichloroethene in soil and groundwater, and trans- 1, 2-Dichloroethene in soil occurred on the Property. Vinyl chloride, Dichloroethylene, N.O.S., Tetrachloroethene, Trichloroethene and trans- 1, 2-Dichloroethene are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules", respectively). The Corrective Action consists of institutional controls (limit use to non-residential activities) to protect human health and the environment.

Grantor, Southern Automatic Company (hereinafter "Southern Automatic"), hereby binds Grantor, its successors and assigns to the activity and use restrictions for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the <name of Holder> and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from excising any authority under applicable law.

Southern Automatic makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run

with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of <name of Holder>, EPD, Southern Automatic and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, <name of Holder> or its successors and assigns, Southern Automatic or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, apply for building permit(s), or propose any site work that would affect the Property.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant.

4. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless COI are treated to below HSRA residential risk reduction standards.

5. Permanent Markers. Permanent markers on each side of the Property shall be installed and maintained that delineate the restricted area as specified in Section 391-3-19-.07(10) of the Rules. Disturbance or removal of such markers is prohibited.

6. Right of Access. In addition to any rights already possessed by EPD and/or the <name of Holder>, the Owner shall allow authorized representatives of EPD and/or <name of Holder> the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

7. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) <name of Holder>, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

8. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 Risk Reduction Standards, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

9. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

10. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 10 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1154 East Tower
Atlanta, GA 30334

<name and mailing address of Holder>

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

Southern Automatic Company

_____
[Name of Signatory]
[Title]

Dated: _____

<NAME OF HOLDER>

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

Exhibit A
Legal Description

[to be provided by Southern Automatic Company]

December 2, 2011

Mr. Jason Metzger
Compliance Officer – Environmental Engineer
Georgia Environmental Protection Division
Hazardous Sites Response Program
2 Martin Luther King, Jr. Drive, SE
Atlanta, GA 30334

Subject: Voluntary Investigation and Remediation Plan Semiannual Status Report for the Fashion Care/Executive Care Site, Hazardous Site Inventory (HSI) No. 10786, located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia
Winter Environmental Project No. 08096

Dear Mr. Metzger:

Enclosed for your review is the Voluntary Investigation and Remediation Plan Semiannual Status Report for the Fashion Care/Executive Care Site (Site), Hazardous Site Inventory No. 10786, located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia. There is one hard copy and two CD's of the report enclosed.

Please contact me with any questions or comments you may have.

Sincerely,

Leonard J. Diprima, Jr., P.G.
Senior Consultant

Enclosures: Voluntary Investigation and Remediation Plan Semiannual Status Report, June 2, 2011

3350 Green Pointe Parkway
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Norcross, Georgia 30092
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www.winter-environmental.com
A division of
The Winter Construction Company

VOLUNTARY REMEDIATION PROGRAM
VOLUNTARY INVESTIGATION AND REMEDIATION PLAN SEMIANNUAL STATUS REPORT

Date: December 2, 2011

Site Name: Fashion Care/Executive Care Site, HSI No. 10786

Site Address: 2211 Savoy Drive, Chamblee, Georgia

County: DeKalb

This electronic copy of the Voluntary Investigation and Remediation Plan Semiannual Status Report dated December 2, 2011 for the above referenced Fashion Care/Executive Care Site, HSI No. 10786, 2211 Savoy Drive, Chamblee, Georgia, DeKalb County is complete, identical to the paper copy, and virus free.

Voluntary Investigation and Remediation Plan
Semiannual Status Report
Voluntary Remediation Program

Fashion Care/Executive Care Site
HSI No. 10786
2211 Savoy Drive, Chamblee, DeKalb County, Georgia

Prepared For

John F. Rowan, Sr. Item IV Trust
1300 Hestertown Road
Madison, GA 30650

Prepared by

WINTER ENVIRONMENTAL
Project No. 08096

December 2, 2011

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Appendix C Surface Water Sampling Data
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Section 1
PE/PG Certification

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

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

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

Leonard J. Diprima, Jr. / Georgia PG #949	December 2, 2011
Printed Name and GA PE/PG Number	Date

Signature and Stamp

Section 2
Introduction

Winter Environmental has prepared this Voluntary Investigation and Remediation Plan Semiannual Status Report (Status Report) in accordance with the Voluntary Remediation Program (VRP) for the Fashion Care/Executive Care Site (Site), Hazardous Site Inventory (HSI) No. 10786, located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, on behalf of the John F. Rowan, Sr. Item IV Trust (Trust). On July 9, 2010, a Voluntary Investigation and Remediation Plan Application (VIRP) was submitted to the Georgia Environmental Protection Division (EPD) Hazardous Sites Response (HSRA) Program for the Site. On December 2, 2010, the EPD approved the VIRP with comments and entered the Site into the VRP. This Status Report has been prepared to present the activities conducted from June 2, 2011 through December 2, 2011 for the Site in accordance with the VRP.

Section 3
Work Performed – December 2, 2010 through June 2, 2011

The activities currently identified to be performed at the Site under the VRP are outlined in the VIRP dated July 9, 2010, the EPD VIRP approval letter dated December 2, 2010, the EPD VIRP comment letter dated December 2, 2010 and the VRP Action Plan Technical Memorandum dated February 3, 2011 included as an attachment to the Financial Assurance submittal to the EPD dated March 2, 2011 (see Figure 1). The activities that have been performed from June 3, 2011 through December 2, 2011 are as follows:

- Re-evaluation of the Johnson and Ettinger (J&E) Vapor Model for parcels 18-343-13-001, 18-343-13-005 and 18-333-02-023, to address cumulative the volatile organic compounds (VOCs) specific to each parcel;
- Revision of the draft Environmental Covenants for the following qualifying properties (see Figure 2, Tax Parcel Map) per EPD's comments to the initial draft covenants:
  - Parcel 18-343-13-002, 2211 Savoy Drive, Chamblee, Georgia, John F. Rowan, Sr. Item IV Trust;
  - Parcel 18-333-02-023, no street address, Asl Limited Partnership; and
  - Parcel 18-343-13-005, 4306 North Peachtree Road, Chamblee, Georgia, Southern Automatic Company.
- Conduct eight surface water sampling events during late summer/early fall when stream flow in Nancy Creek is close to 7Q10, and evaluation of the results;
- Final design and estimate for the installation of a vapor mitigation system for the building located on parcel 18-343-13-002;

These activities are described in more detail below.

3.1 Re-evaluation of the Johnson and Ettinger Vapor Models

The J&E convection/diffusion model as executed in Excel spread sheet format and distributed by USEPA, Version 3.1 (2004) was rerun for parcels 18-343-13-001, 18-343-13-005 and 18-333-02-023 to evaluate the cumulative risk of vapor intrusion specific to each parcel. The model calculations and a summary of the input parameters and results for the parcels are included in Appendix A. The modeling was performed using the most recent round of groundwater data collected in May and June of 2010 presented in the VIRP, and the vapor sampling results from beneath the slab of the building currently on parcel 18-343-13-005, 4306 North Peachtree Road, Chamblee, Georgia, Southern Automatic Company

conducted May 19, 2011. The vapor sample laboratory results from the sub-slab sampling of the building currently located on parcel 18-343-13-005 are in Appendix A.

Modeling of cumulative VOC vapor intrusion was conducted for the building currently on parcel #18-343-13-005 (Southern Automatic Company). Two soil vapor samples collected directly beneath the floor of the building were used to obtain data input for the model. Results from the vapor intrusion analysis indicate a cumulative human health risk below the HSRA standard of one incremental cancer in a population of 100,000.

Modeling of cumulative VOC vapor intrusion was conducted for the undeveloped, wooded parcel #18-333-02-023 (Asl Limited Partnership) using shallow groundwater water concentration data obtained from monitoring wells FMW-5, FMW-6, FMW-11 (March 2010) and MW-14 (September 2008). This groundwater data was used to calculate VOC groundwater concentrations where a hypothetical structure would encounter vapor intrusion at a future date on the property. The area encompassed by these wells fairly represents a potential development area from a structure similar to the EZ-Serve Gas Station located on the Georgia-Alabama Commercial Investments property. This area also emphasizes the portion of the groundwater plume with significant PCE and TCE concentrations. The conclusion for this hypothetical scenario for parcel #18-333-02-023 is that the incremental cancer risk exceeds the allowable HSRA standard of one incremental cancer in a population of 100,000.

Modeling of cumulative VOC vapor intrusion was conducted for the EZ-Serve Gas Station building located on parcel 18-343-13-001 (Georgia-Alabama Commercial Investments) using the most recent shallow groundwater water concentration data collected March, 2010, from monitoring wells FMW-1 and MW-11. VOC concentrations from monitoring wells FMW-1 and MW-11 were averaged in order to provide a representative groundwater concentration scenario for this location. Several monitoring wells surrounding the Gas Station have or had free product (petroleum) and did not provide representative (or any) chlorinated compound data. Results from the vapor intrusion analysis indicate a cumulative human health risk below the HSRA standard of one incremental cancer in a population of 100,000.

The results from the J&E modeling were used to develop the vapor mitigation requirements in the revised draft Environmental Covenants for parcels 18-343-13-005 and 18-333-02-023 in Appendix B.

3.2 Revision of the draft Environmental Covenants

In accordance with comments from the EPD, the draft Environmental Covenants for parcel 18-343-13-002 (2211 Savoy Drive, Chamblee, Georgia, John F. Rowan, Sr. Item IV Trust), parcel 18-343-13-005 (4306 North Peachtree Road, Chamblee, Georgia, Southern Automatic Company), and parcel 18-333-02-023 (Asl Limited Partnership) have been revised and are included in Appendix B, for EPD's review.

Based on the J&E model indicating that there was no vapor intrusion exposure pathway for parcel 18-343-13-001 (4308 North Peachtree Road, Chamblee, Georgia, Georgia-Alabama Commercial

Investments, LLC), and that the Site was not listed on the HSI for groundwater, under the VRP Program, an Environmental Covenant will not be required for this parcel.

3.3 Surface Water Sampling Events

Eight surface water sampling events have been conducted in accordance with EPD's Comment Letter regarding the Site's acceptance into the VRP dated December 2, 2010 EPD, specifically comments regarding surface water, Nos. 1-Bullet 4, 2 and 4. The events were conducted in October 2011 during a three week period. The first sequence of four consecutive events was obtained from October 6 through October 9, 2011. The second sequence of four events was taken from October 21 through October 24, 2011.

Surface water flow volume and VOCs were measured in Nancy Creek, downgradient of the Site, at three locations; upstream and two within the groundwater plume boundary. Previous stream sampling events did not detect target VOCs. The sampling and flow gauging was optimized for detection using sequential events at low flow conditions. The sampling effort was intended to definitively examine low flow (drought) surface water concentrations of VOCs resulting from Site groundwater discharging to Nancy Creek. The EPD requested that samples be collected during flow periods that were close to the 7Q10 value of 3 cubic feet per second, provided by EPD for the Site. Measurements were obtained using an electromagnetic flow meter with capability of measuring flow velocity from 0.01 to 20 feet per second. Stream flow during all the sampling events was well below the 7Q10 value of 3.0 cubic feet per second. During the first series of sampling, October 6 through October 9, 2011, flow ranged from 0.09 to 0.52 cubic feet per second. During the second series of sampling, October 21 through October 24, 2011, flow ranged from 0.53 to 1.45 cubic feet per second.

No measurable precipitation was reported in the Nancy Creek watershed during the ten days prior to the first sequence, and drought conditions were reported by local weather forecasters. Based on USGS station data, light rain was recorded approximately two days prior to the second sampling sequence, October 21 – 24, and a gradual flow volume decline to dry condition was observed. Flow measurement decline in the second sequence was corroborated by the USGS stream flow data. Declining stream flow during the days after a rain event was expected to provide optimum conditions for detecting groundwater VOCs in Nancy Creek.

No Site constituents were observed in the surface water laboratory results. A low detection of chloromethane, 2 ug/L, was observed at the upstream sampling location and does not appear associated with the Site. Acetone was detected in all of the second sampling event sampling sequence samples, and appears to originate from an up-stream source not associated with the Site. Notably, the trend in the acetone data appears to corroborate the expectation that declining stream flow subsequent to a rain event produces the optimum conditions for detecting VOCs discharging to surface water from groundwater. In conclusion, surface water sampling conducted during both extreme low flow conditions and during post-rain groundwater discharge into Nancy Creek at the Site, did not detect VOCs associated with the Site during any of the sampling events. The details regarding the surface water

sampling, including summary tables for flow and VOC concentrations, flow calculations and laboratory data reports is in Appendix C.

3.4 Design of a Vapor Mitigation System - Parcel 18-343-13-002

A vapor mitigation system design and estimate for the Fashion Care building located on the parcel 18-343-13-002, to prevent the migration of volatile drycleaner constituents into the building from the impacted soil and groundwater beneath the structure has been developed. An active sub-slab depressurization system has been selected. An example of this system was presented in the June 2, 2011 Semiannual Status Report. Figure 3 shows the proposed location of the system in the building. The system will be maintained for the life of the structure, or until natural degradation of the impacted soil and groundwater reaches contaminant concentrations that based upon actual vapor sampling, and/or vapor modeling approved by the EPD, no longer pose a vapor intrusion risk. Vapor mitigation requirements have been placed into the draft Environmental Covenant for the property for existing and future structures placed over the established impacted area. The estimate for the installation and start up of the system is approximately $10,000. The system will be installed in 2012, and as-built specifications will be provided to the EPD in the Semiannual Status Report that follows completion.

3.5 Miscellaneous Activities

In accordance with Item #11 of the EPD VIRP comment letter dated December 2, 2010, site-specific utility and construction worker clean-up standards were calculated for the Site in accordance with HSRA Rules, Section 391-3-19-.07(10) for soil and groundwater. The calculations were presented in the June 2, 2011 Semiannual Status Report, However, the sources of the input values were not identified. Per EPD's requested the calculations are presented in Appendix D with the sources of the input values identified for review.

Section 4
Work to be Performed

The additional activities currently identified to be performed at the Site through completion of the VIRP are outlined in the VIRP dated July 9, 2010, the EPD VIRP approval letter dated December 2, 2010, the EPD VIRP comment letter dated December 2, 2010 and the VRP Action Plan Technical Memorandum dated February 3, 2011 included as an attachment to the Financial Assurance submittal to the EPD dated March 2, 2011. More specifically, these tasks are presented on Figure 1. The tasks projected to be completed during the next six months and included in the next Status Report to be submitted June 2, 2012 are Item Nos. 7, 10, and 11, presented below. Item 18, vapor mitigation system installation for the Fashion Care building will also be completed in 2012. The results of the tasks completed will be presented in the next Status Report to be submitted June 2, 2012.

Scheduled Tasks, December 3, 2011 through June 2, 2012:

- Preparation of a "Corrective Action Plan" to be implemented if a surface water detection occurs during future surface water sampling events;
- Complete horizontal groundwater delineation beyond FMW-15 through the installation of two shallow monitoring wells, and the collection of a full round of groundwater and surface water samples from the Site for use in modeling and to reestablish a groundwater concentration baseline;
- Refining of the Conceptual Site Model:
  - Installation of borings across the impacted area to confirm presence/absence of a dry silt, shallow confining unit,
  - Installation of a deeper soil zone well next to FMW-4 to establish a vertical gradient if the dry silt, shallow confining unit is uniformly present,
  - Installation of piezometers across Nancy Creek to confirm creek is a gaining stream, and
  - Conduct a well pump test to recalculate horizontal hydraulic gradient for the Site and for input into future modeling.

The tasks required to complete the VIRP are presented on Figure 5, a revised estimated schedule. This schedule will be revised with the submittal of each Semiannual Status Report, as required.

Section 5
Professional Services Hours This Period

A total of approximately 207.25 professional service hours have been completed by Winter Environmental from June 3, 2011 through December 2, 2011. A table of the approximate breakdown of Winter Environmental's hours by month is presented in Table 1.

Tables

Table 1
Approximate Professional Service Hours
June 3, 2011 through December 2, 2011

Company	Month/Year	Hours Worked
Winter Environmental	June 2011	75.75
Winter Environmental	July 2011	48
Winter Environmental	August 2011	24.75
Winter Environmental	September 2011	5
Winter Environmental	October 2011	20.25
Winter Environmental	November 2011	33.5
	Total Estimated Hours	**207.25**

Note: The above hours do not include subcontractor hours worked for Winter Environmental

Figures

Figure 1

Flow Chart – Voluntary Investigation & Remediation Plan Tasks

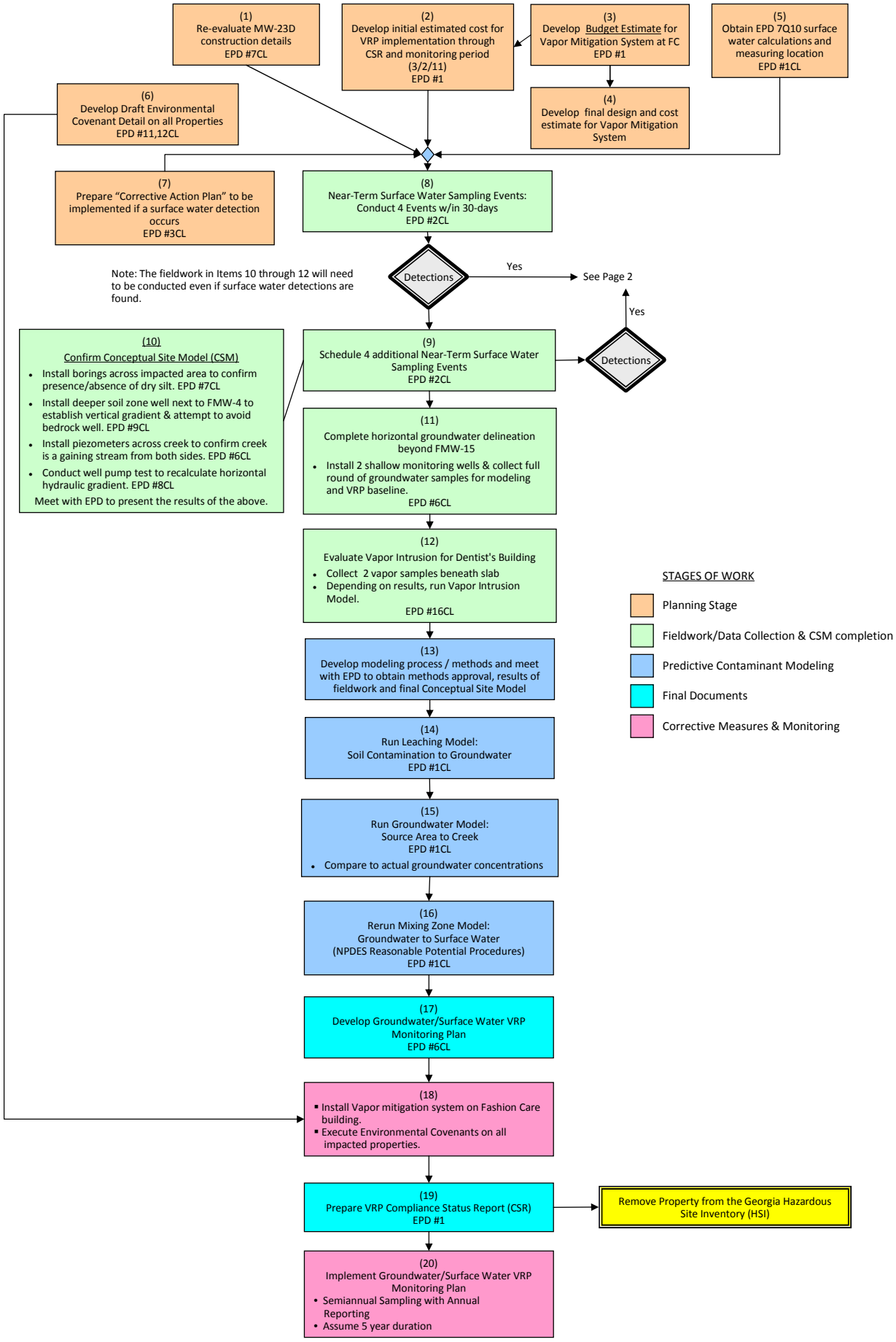
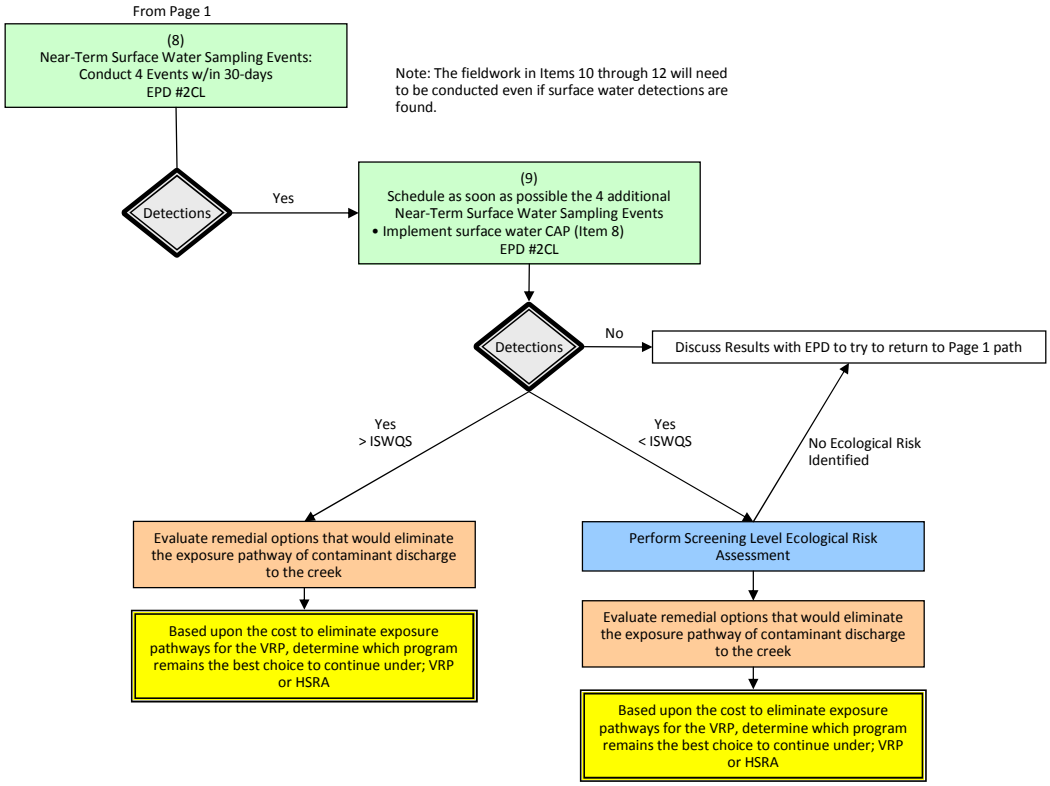
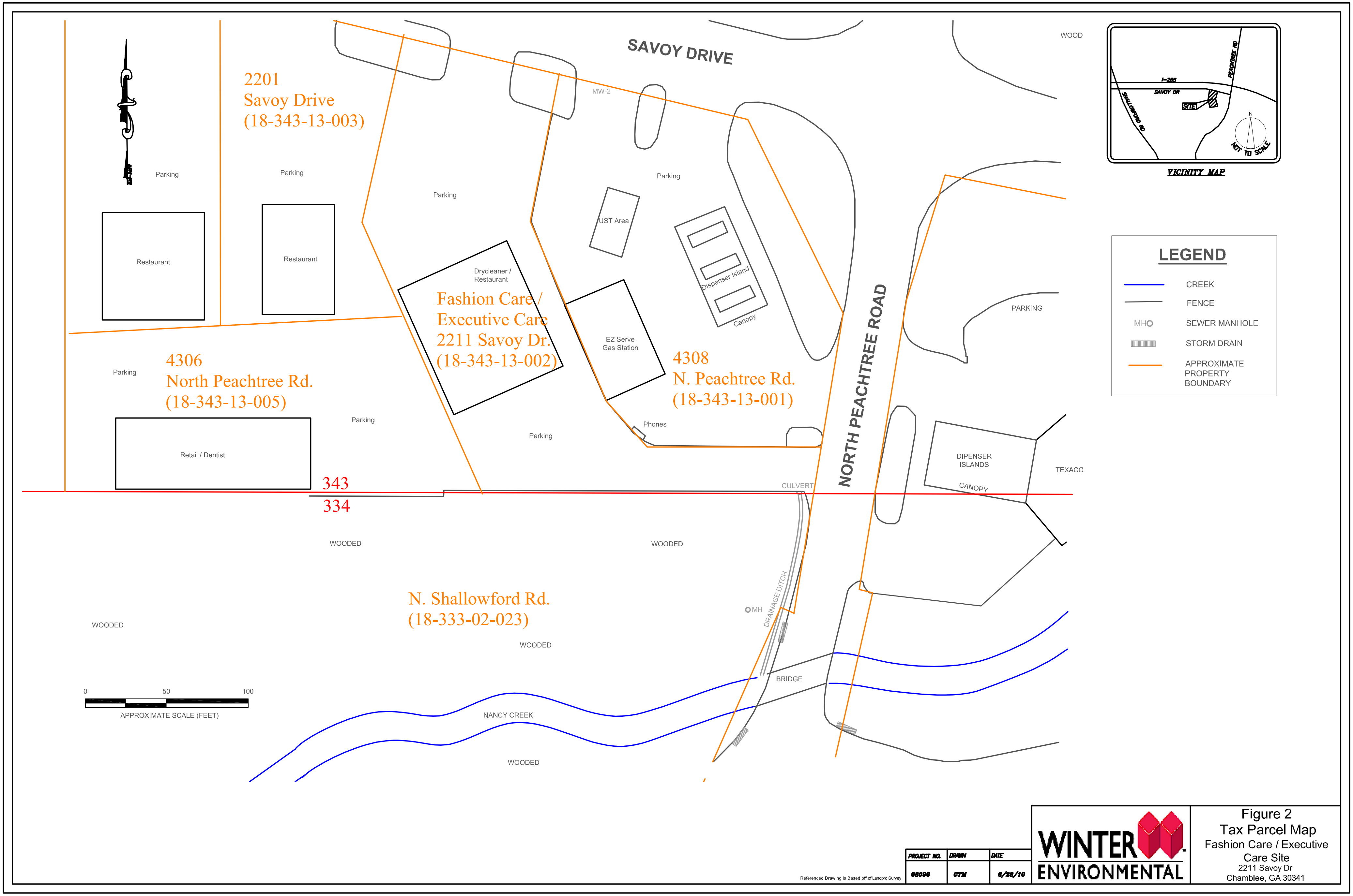


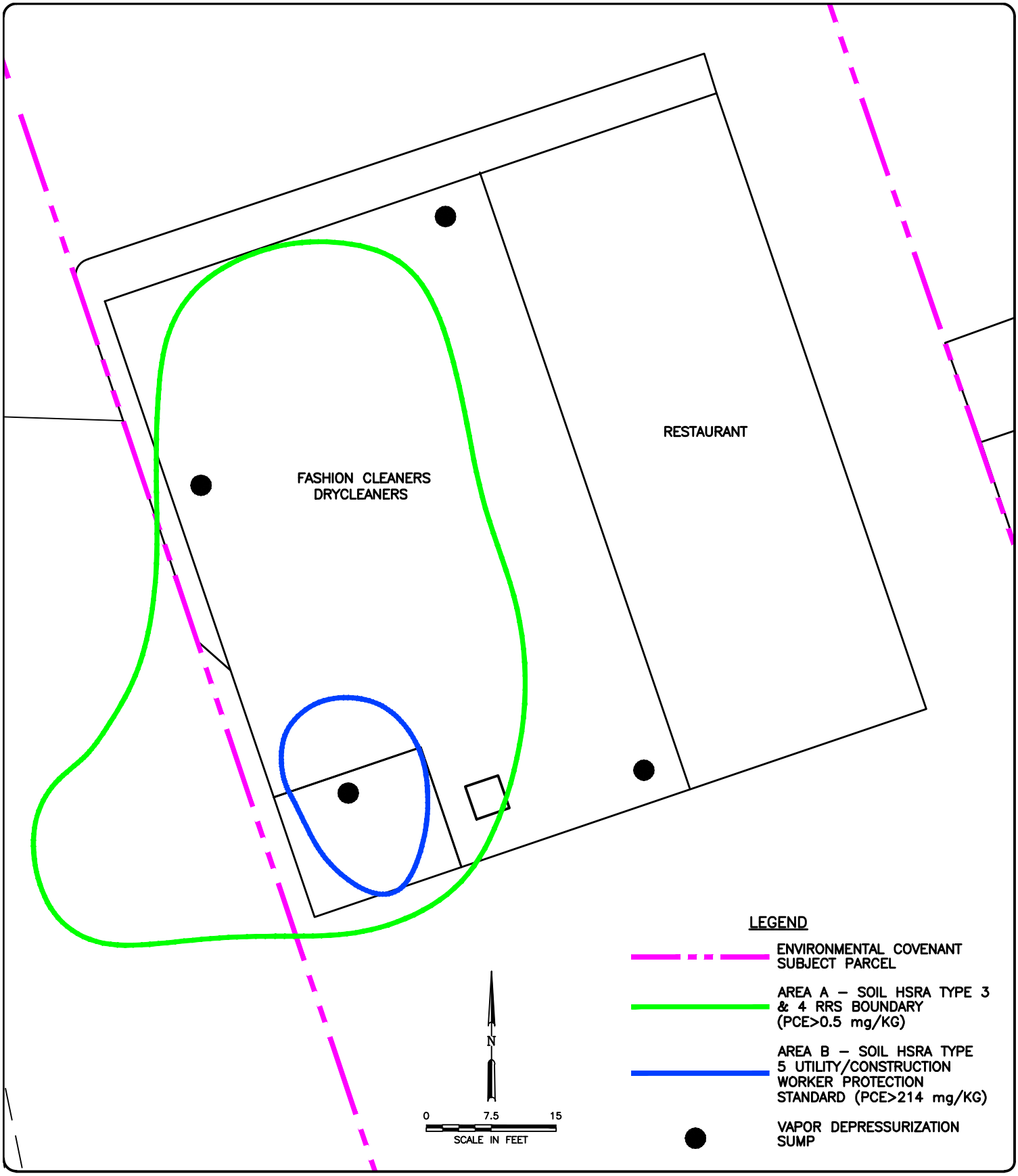
Figure 1 Contd.

Flow Chart – Voluntary Investigation & Remediation Plan Tasks



ISWQS = Georgia In-Stream Water Quality Standards


SAVOY DRIVE
NORTH PEACHTREE ROAD
2201
Savoy Drive
(18-343-13-003)
Fashion Care /
Executive Care
2211 Savoy Dr.
(18-343-13-002)
4306
North Peachtree Rd.
(18-343-13-005)
4308
N. Peachtree Rd.
(18-343-13-001)
N. Shallowford Rd.
(18-333-02-023)
343
334
Parking
Restaurant
Drycleaner / Restaurant
UST Area
Dispenser Island
Canopy
EZ Serve Gas Station
Phones
Retail / Dentist
MW-2
CULVERT
DRAINAGE DITCH
MH
BRIDGE
NANCY CREEK
WOODED
WOOD
PARKING
DIPENSER ISLANDS
CANOPY
TEXACO
VICINITY MAP
I-285
SAVOY DR
SITE
PEACHTREE RD
SHALLOWFORD RD
NOT TO SCALE
LEGEND
CREEK
FENCE
MHO SEWER MANHOLE
STORM DRAIN
APPROXIMATE PROPERTY BOUNDARY
0
50
100
APPROXIMATE SCALE (FEET)
Referenced Drawing Is Based off of Landpro Survey
PROJECT NO.
08098
DRAWN
GTM
DATE
6/28/10
WINTER ENVIRONMENTAL
Figure 2
Tax Parcel Map
Fashion Care / Executive Care Site
2211 Savoy Dr
Chamblee, GA 30341

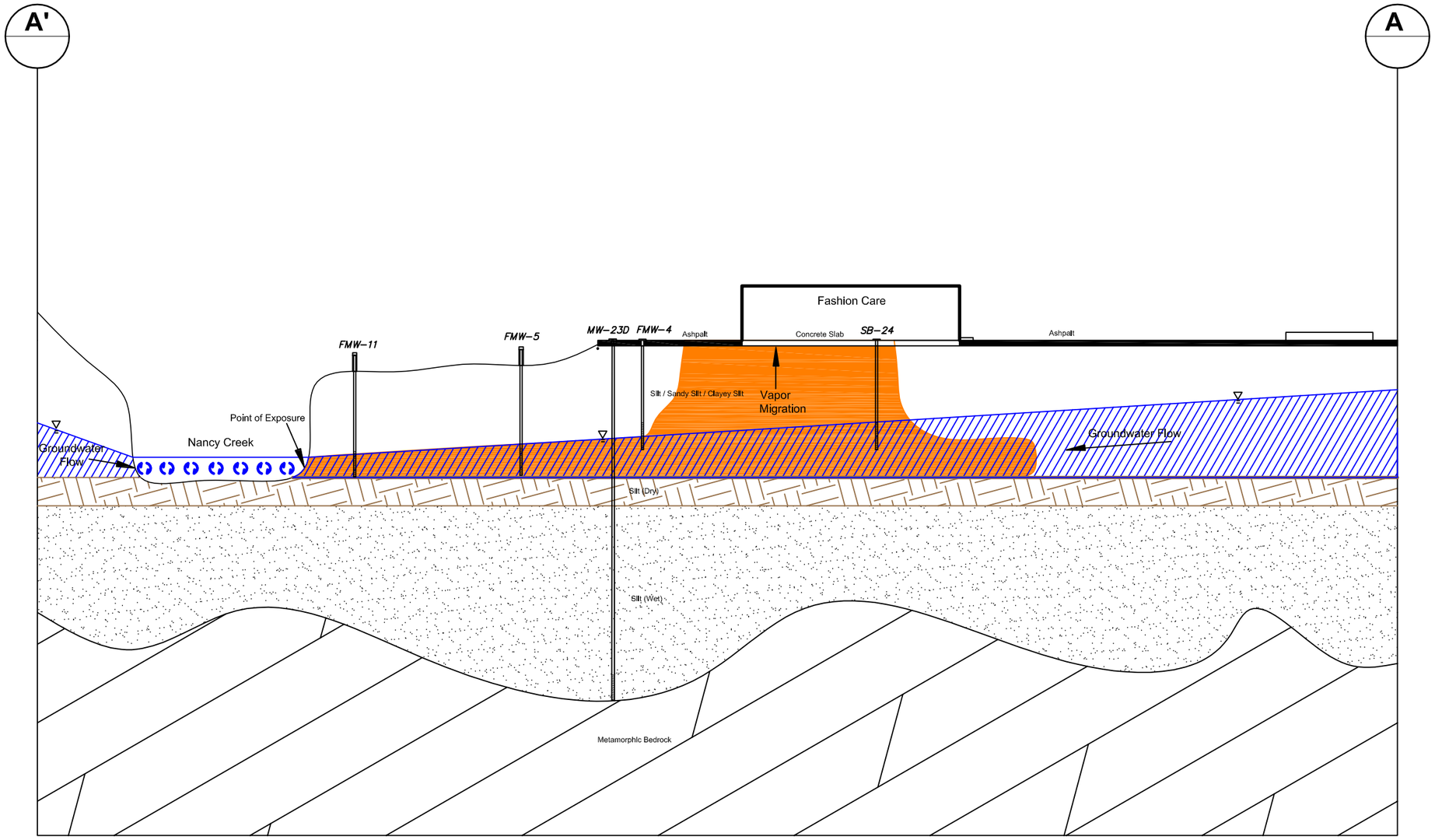


WINTER ENVIRONMENTAL

DATE 12/1/11
DWN. GHA
APPR.
REVIS.
PROJECT NO.

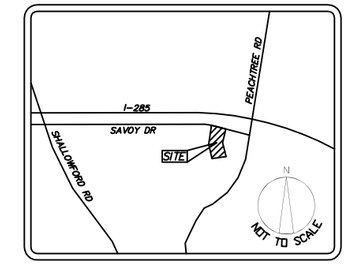
FIGURE 3
VAPOR MITIGATION SYSTEM
TAX PARCEL NO. 18 343 13 002

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341



0' 30' 60' 90'

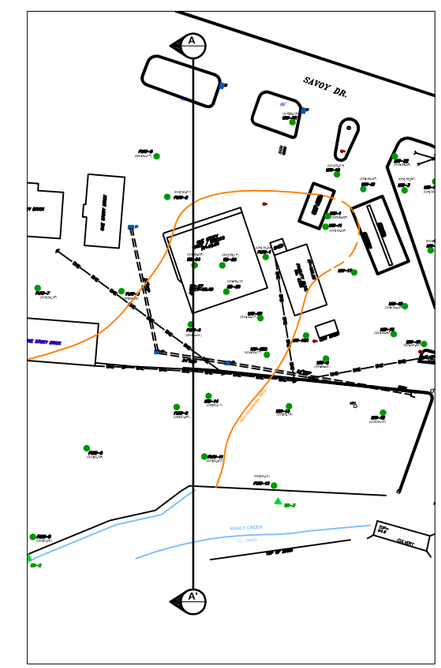
Approximate HORIZONTAL SCALE



VICINITY MAP

LEGEND

- Impacted Soil
- Impacted Groundwater
- Groundwater



Referenced Drawing is Based off of Landpro Survey

PROJECT NO.	DRAWN	DATE
08096	GTM	6/28/10

WINTER ENVIRONMENTAL

Figure 4

Conceptual Site Model

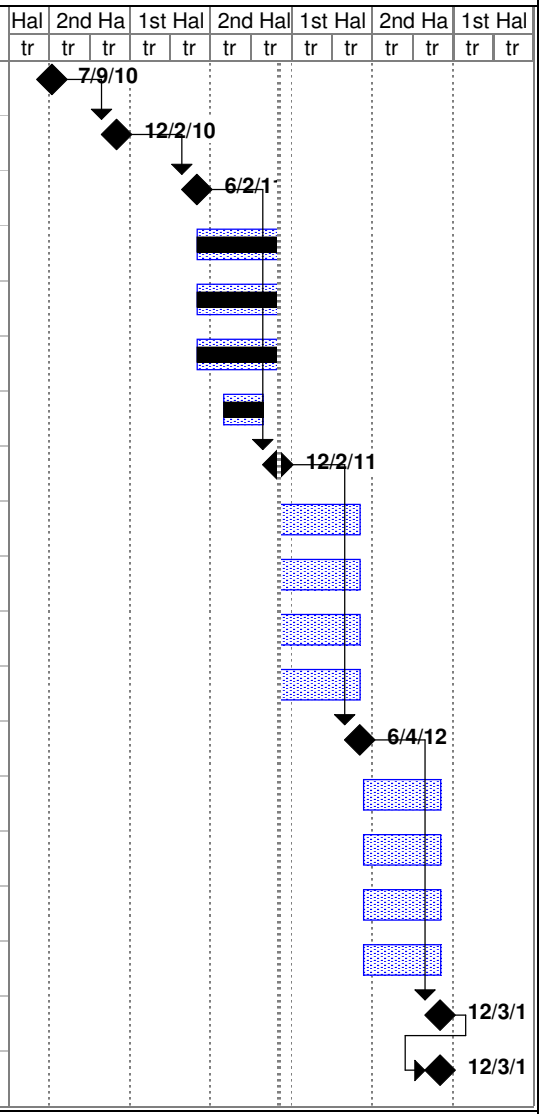
Fashion Care / Executive Care Site

2211 Savoy Dr

Chamblee, GA 30341

Figure 5
Estimated Voluntary Remediation Plan Schedule
Fashion Care/Executive Care Site, 2211 Savoy Drive, Chamblee, Georgia

ID	Task Name	Duration	Start	Finish	Predecessors
1	**VIRP Application Submittal**	0 days	Fri 7/9/10	Fri 7/9/10	
2	**EPD Approval of VIRP**	0 days	Thu 12/2/10	Thu 12/2/10	1
3	**1st VIRP Status Report**	0 days	Thu 6/2/11	Thu 6/2/11	2
4	Vapor Sampling Evaluation/J&E Modeling	132 days	Thu 6/2/11	Fri 12/2/11	
5	Revise Draft Ecs	132 days	Thu 6/2/11	Fri 12/2/11	
6	Final Design for Vapor Mitigation System	132 days	Thu 6/2/11	Fri 12/2/11	
7	Conduct 8 Surface Water Sampling Events	65 days	Mon 8/1/11	Sat 10/29/11	
8	**2nd VIRP Status Report**	0 days	Fri 12/2/11	Fri 12/2/11	3
9	Prepare Surface Water CAP	132 days	Fri 12/2/11	Mon 6/4/12	
10	Complete Horizontal Groundwater Delineation	132 days	Fri 12/2/11	Mon 6/4/12	
11	Fieldwork to Confirm CSM	132 days	Fri 12/2/11	Mon 6/4/12	
12	Execute Environmental Covenants	132 days	Fri 12/2/11	Mon 6/4/12	
13	**3rd VIRP Status Report**	0 days	Mon 6/4/12	Mon 6/4/12	8
14	Site Fate & Transport modeling	125 days	Tue 6/12/12	Mon 12/3/12	
15	Prepare VRP Groundwater & Surface Water Monitoring Plan	125 days	Tue 6/12/12	Mon 12/3/12	
16	Install Vapor Mitigation System - Fashion Care Building	125 days	Tue 6/12/12	Mon 12/3/12	
17	Prepare VRP CSR	125 days	Tue 6/12/12	Mon 12/3/12	
18	**Submit VRP CSR**	0 days	Mon 12/3/12	Mon 12/3/12	13
19	**Implement Groundwater & Surface Water Monitoring Plan**	0 days	Mon 12/3/12	Mon 12/3/12	18



Task		Milestone		External Tasks	
Split		Summary		External Milestone	
Progress		Project Summary		Deadline	

Appendix A
Johnson and Ettinger Vapor Models

INTRODUCTION

This technical summary describes a vapor intrusion analysis of volatile organic compounds (VOCs) into the structure at Parcel #18-343-13-005 Southern Automatic Company Property (Dentist Office), located adjacent to the Fashion Care Dry Cleaner at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia (HSI 10786). The Johnson & Ettinger transport model (J&E), release 3.1, obtained directly from the EPA download page was used to estimate the incremental cancer risk and Hazard Quotient from all detected VOCs based on sub-foundation soil vapor sampling conducted on May 31, 2011. For reference, the J&E Model can be obtained from the USEPA Web page[1]. The following discussion is obtained directly from the J&E User's Guide:

The J&E Model is a one-dimensional analytical solution to convective and diffusive vapor transport into indoor spaces and provides an estimated attenuation coefficient that relates the vapor concentration in the indoor space to the vapor concentration at the source of contamination. The model is constructed as both a steady-state solution to vapor transport (infinite or non-diminishing source) and as a quasi-steady-state solution (finite or diminishing source). Inputs to the model include chemical properties of the contaminant, saturated and unsaturated zone soil properties, and structural properties of the building.

This manual provides documentation and instructions for using the vapor intrusion model as provided in the accompanying spreadsheets.

Model results (both screening and advanced) are provided as either a risk-based soil or groundwater concentration, or as an estimate of the actual incremental risks associated with a user-defined initial concentration. That is to say that the model will reverse-calculate an "acceptable" soil or groundwater concentration given a user-defined risk level (i.e., target risk level or target hazard quotient), or the model may be used to forward-calculate an incremental cancer risk or hazard quotient based on an initial soil or groundwater concentration.

In addition to the finite and infinite source models referred to above, two models (are included) that allow the user to input empirical soil gas concentration and sampling depth information directly into the spreadsheets. These models will subsequently estimate the resulting steady-state indoor air concentrations and associated health risks.

USER INPUTS

Limited input from the user is allowed in the screening version of the J&E model. User model inputs for the Dentist Office property associated with Fashion Care vapor intrusion analysis summarized in Table D-1 are discussed in the following:

> **Soil Vapor Concentration:** Shallow soil gas VOC concentration data were obtained on March 31, 2011. Samples were obtained approximately four inches below the concrete floor at sample locations VS-1 and VS-2. All detected VOC concentrations from this event were used in the J&E calculation to obtain a cumulative risk factor for cancer and hazard. 4-Ethyltoluene was included in the model as o-Xylene since the J&E compound database (VLOOKUP) does not specifically include this gasoline-related hydrocarbon.

[1] http://www.epa.gov/oswer/riskassessment/airmodel/johnson_ettinger.htm

Soil Profile SCS Classifications: As shown in Table D-1, soil boring FMW-1 was used to obtain the soil characterization of the vadose zone lithology (primarily Sand immediately below the slab). Due to proximity to surface, these data have minimal influence on model results for the SG-SCREEN module used for this analysis.

Model Defaults: Default values for air exchange, slab thickness, air entry rate, and other structure variables were used. Although site specific building structure data could be used, the results from the modeling would likely not change significantly due to the model assumptions for human exposure and associated pathways of exposure. This is due to the inherent "exposure per unit volume" composition of the model. More advanced modeling would require a significant amount of structure measurement, including estimates of floor crack area, actual air exchange rates for this specific dry cleaner, and pressure differentials between inside and outside the building.

RESULTS AND CONCLUSION

Modeling of cumulative VOC vapor intrusion was conducted for the building located on Parcel #18-343-13-005, Southern Automatic Company Property, associated with the Fashion Care site using the standardized Johnson & Ettinger convection/diffusion model as executed in Excel spread sheet format and distributed by USEPA, Version 3.1 (2004). Two soil vapor samples directly beneath the floor were used to obtain data input for the soil gas screening model discussed previously. Individual VOC constituents used to calculate the cumulative risk factors are summarized in Table D-2.

Results from the vapor intrusion analysis indicate a cumulative human health risk below the HSRA standard of one incremental cancer in a population of 100,000. This calculation is performed under conservative exposure assumptions.

Model limitations are a significant factor in drawing conclusions from this analysis.

MODEL LIMITATION

The simplified Johnson & Ettinger one-dimensional convection and diffusion model used in the calculations is useful for screening under ideal conditions using site specific data. The Fashion Care site does not offer ideal conditions and exhibits the potential for significant variability in key simulation data inputs. Alternative site specific data inputs and assumptions could also be used to generate much different results. The conceptual model upon which this analysis was conducted may require revision in the future in order to improve the vapor intrusion predicative capability.

Tables and Attachments

Table D-1
Input Parameters - Vapor Intrusion Modeling
Parcel #18-343-13-005 Southern Automatic Company Property
Johnson-Ettinger Soil Gas Scenario

Parameter	Symbol	Units	Value	Comment
User Input (Soil Gas Screening Model Version 3.1, 2004)				
See Table D-2 For Vapor Constituents	Cg	mg/M^3		SEE TABLE D-2
Slab Thickness	L_F	cm	15	Only 15 or 200 Allowed In Model - 15 Used
Depth to SG sample	L_{WT}	cm	24	Atlas Geo-Sampling Drilling Notes
Average Media Temperature	T_S	^oC	13	Soil and Groundwater Annual Average Temp
Average Vapor Intrusion Rate	Q_{soil}	L/min	5	50th Percentile For Climate Region 4
Model Inputs Used for Variable Calculations or Assumptions				
Soil Type At Water Table	SCS	n/a	S	Sand - Subgrade Surface
Soil Type In Vadose Zone	SCS	n/a	S	Sand - Soil Boring Log FMW-1
Soil Constants Per SCS Code	Automatic Paramerter Lookup Function			Tabulated in VLOOKUP Sheet of Model
Vadose Zone Vapor Permeability	K_V	cm^2		Model Calculation Used
Target Risk (Carcinogens)	TR	n/a	1.0E-05	HSRA based allowable
Target Hazard Quotient (Non-Cancer)	THQ	n/a	1.0	Allowable Hazard Quotient for RfC
Averaging Time - Carcinogens	AT_C	yrs	70	EPA Recommended Per Model Guidance
Averaging Time - Noncarcinogens	AT_{NC}	yrs	30	EPA Recommended Per Model Guidance
Exposure Duration	ED	yr	30	EPA Recommended Per Model Guidance
Exposure Frequency	EF	days/yr	30	EPA Recommended Per Model Guidance

Model Results - Dentist Office Parcel #18-343-13-005 Southern Automatic Company Property		**Comments**
Cummulative Risk - Hazard Quotient	3.3E-02	CummulativeToxicity All Detected VOCs
Cummulative Risk - Cancer	3.1E-06	Cummulative Cancer All Detected VOCs

Table D-2
Results - Vapor Intrusion Modeling
Parcel #18-343-13-005 Southern Automatic Company Property
Johnson-Ettinger Soil Gas Scenario

Vapor Constituent	SAMPLE NO.		CAS No.	RISK FACTOR	
	VS-1	VS-2	(VLOOKUP)	Cancer	Hazard
Acetone	**240**	210	67641	N/A	**2.8E-03**
Carbon Disulfide	**43**	<6.3	75150	N/A	**2.5E-04**
Chloroform	**12**	<5.0	67663	**4.8E-07**	N/A
Benzene	**57**	9.1	71432	**7.5E-07**	**7.5E-03**
Trichloroethene	**9.2**	<5.5	79016	**1.7E-06**	**8.9E-04**
Tetrachloroethene	**15**	10	127184	**1.4E-07**	**9.5E-05**
Toluene	**130**	48	108883	N/A	**1.3E-03**
Ethylebenzene	**21**	13	100414	**8.6E-08**	**8.0E-05**
o-Xylene	**16**	15	95476	N/A	**6.3E-04**
M,P-Xylene (as P-)	21	**38**	106423	N/A	**1.5E-03**
Styrene	**7.4**	6.5	100425	N/A	**2.8E-05**
4-Ethyltoluene	5.2	<5.0	N/A	N/A	**2.0E-04**
1,3,5-Trimethylbenzene	**6.2**	5.7	108678	N/A	**3.8E-03**
1,2,4-Trimethylbenzene	21	**23**	95636	N/A	**1.4E-02**
Cummulative Risk				**3.1E-06**	**3.3E-02**

Notes:

1) Ethylbenzene unit risk factor (URF) was updated in the J&E model database per EPA changes in 2008.
2) 4-Ethyltoluene is not in J&E compound data and calculated as o-xylene.
3) Risk Factor calculated on the highest detection in either sample VS-1 or VS-2, indicated b y bolded value.
4) N/A for Cancer Risk Factor indicates compound is not reported in J&E as carcinogen.

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
127184	1.50E+01			Tetrachloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	13	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.43	0.197	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v.b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.20E-02	8.20E-06	1.84E-02	25	8.288	394.40	620.20	5.9E-06	6.0E-01	165.83

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.233	0.382	9.98E-08	0.534	5.33E-08	4.000	1.50E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	9.523	9.35E-03	3.98E-01	1.76E-04	3.05E-03	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	1.50E+01	0.10	8.33E+01	3.05E-03	4.00E+02	1.04E+297	3.95E-03	5.92E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
5.9E-06	6.0E-01

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
1.4E-07	9.5E-05

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
79016	9.20E+00			Trichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	13	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.43	0.197	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v.b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.90E-02	9.10E-06	1.03E-02	25	7,505	360.36	544.20	1.1E-04	4.0E-02	131.39

END

INTERMEDIATE CALCULATIONS SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.233	0.382	9.98E-08	0.534	5.33E-08	4,000	9.20E+00	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	8,520	5.62E-03	2.39E-01	1.76E-04	3.34E-03	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	9.20E+00	0.10	8.33E+01	3.34E-03	4.00E+02	4.66E+270	4.02E-03	3.70E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
1.1E-04	4.0E-02

END

RESULTS SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
1.7E-06	8.9E-04

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_{g} ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_{g} (ppmv)	Chemical
67641	2.40E+02			Acetone

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_S (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	13	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.43	0.197	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
1.24E-01	1.14E-05	3.87E-05	25	6,955	329.20	508.10	0.0E+00	3.5E-01	58.08

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.233	0.382	9.98E-08	0.534	5.33E-08	4,000	2.40E+02	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	7,522	2.27E-05	9.68E-04	1.76E-04	5.53E-03	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	2.40E+02	0.10	8.33E+01	5.53E-03	4.00E+02	4.00E+163	4.33E-03	1.04E+00

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	3.5E-01

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	2.8E-03

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_{g} ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_{g} (ppmv)	Chemical
71432	5.70E+01			Benzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_S (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	13	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.43	0.197	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
8.80E-02	9.80E-06	5.54E-03	25	7,342	353.24	562.16	7.8E-06	3.0E-02	78.11

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.233	0.382	9.98E-08	0.534	5.33E-08	4,000	5.70E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	8,091	3.12E-03	1.33E-01	1.76E-04	3.72E-03	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	5.70E+01	0.10	8.33E+01	3.72E-03	4.00E+02	8.66E+242	4.09E-03	2.33E-01

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.8E-06	3.0E-02

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
7.5E-07	7.5E-03

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_{g} ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_{g} (ppmv)	Chemical
75150	4.30E+01			Carbon disulfide

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_S (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	13	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.43	0.197	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
1.04E-01	1.00E-05	3.02E-02	25	6,391	319.00	552.00	0.0E+00	7.0E-01	76.13

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.233	0.382	9.98E-08	0.534	5.33E-08	4,000	4.30E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	6,659	1.89E-02	8.03E-01	1.76E-04	4.40E-03	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	4.30E+01	0.10	8.33E+01	4.40E-03	4.00E+02	4.43E+205	4.20E-03	1.81E-01

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	7.0E-01

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	2.5E-04

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_{g} ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_{g} (ppmv)	Chemical
67663	1.20E+01			Chloroform

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_S (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	13	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.43	0.197	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
1.04E-01	1.00E-05	3.66E-03	25	6,988	334.32	536.40	2.3E-05	0.0E+00	119.38

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.233	0.382	9.98E-08	0.534	5.33E-08	4,000	1.20E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	7,523	2.15E-03	9.15E-02	1.76E-04	4.40E-03	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	1.20E+01	0.10	8.33E+01	4.40E-03	4.00E+02	3.45E+205	4.20E-03	5.04E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
2.3E-05	NA

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
4.8E-07	NA

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
100414	2.10E+01			Ethylbenzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_S (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	13	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.43	0.197	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.50E-02	7.80E-06	7.86E-03	25	8,501	409.34	617.20	2.5E-06	1.0E+00	106.17

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.233	0.382	9.98E-08	0.534	5.33E-08	4,000	2.10E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	10,121	3.84E-03	1.64E-01	1.76E-04	3.17E-03	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	2.10E+01	0.10	8.33E+01	3.17E-03	4.00E+02	1.20E+285	3.98E-03	8.35E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
2.5E-06	1.0E+00

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
8.6E-08	8.0E-05

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
106423	3.80E+01			p-Xylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_S (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	13	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.43	0.197	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.69E-02	8.44E-06	7.64E-03	25	8,525	411.52	616.20	0.0E+00	1.0E-01	106.17

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.233	0.382	9.98E-08	0.534	5.33E-08	4,000	3.80E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	10,213	3.71E-03	1.58E-01	1.76E-04	3.25E-03	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	3.80E+01	0.10	8.33E+01	3.25E-03	4.00E+02	1.06E+278	4.00E-03	1.52E-01

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	1.0E-01

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	1.5E-03

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_{g} ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_{g} (ppmv)	Chemical
95476	1.60E+01			o-Xylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_S (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	13	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.43	0.197	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
8.70E-02	1.00E-05	5.18E-03	25	8,661	417.60	630.30	0.0E+00	1.0E-01	106.17

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.233	0.382	9.98E-08	0.534	5.33E-08	4,000	1.60E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	10,370	2.48E-03	1.06E-01	1.76E-04	3.68E-03	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	1.60E+01	0.10	8.33E+01	3.68E-03	4.00E+02	4.95E+245	4.09E-03	6.54E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	1.0E-01

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	6.3E-04

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
100425	7.40E+00			Styrene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_S (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	13	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.43	0.197	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.10E-02	8.00E-06	2.74E-03	25	8,737	418.31	636.00	0.0E+00	1.0E+00	104.15

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.233	0.382	9.98E-08	0.534	5.33E-08	4,000	7.40E+00	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	10,417	1.31E-03	5.59E-02	1.76E-04	3.01E-03	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	7.40E+00	0.10	8.33E+01	3.01E-03	4.00E+02	7.99E+300	3.94E-03	2.91E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	1.0E+00

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	2.8E-05

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_{g} ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_{g} (ppmv)	Chemical
108883	1.30E+02			Toluene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_S (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	13	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.43	0.197	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
8.70E-02	8.60E-06	6.62E-03	25	7,930	383.78	591.79	0.0E+00	4.0E-01	92.14

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.233	0.382	9.98E-08	0.534	5.33E-08	4,000	1.30E+02	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	9,122	3.47E-03	1.48E-01	1.76E-04	3.68E-03	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	1.30E+02	0.10	8.33E+01	3.68E-03	4.00E+02	5.67E+245	4.09E-03	5.31E-01

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	4.0E-01

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	1.3E-03

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_{g} ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_{g} (ppmv)	Chemical
95636	2.30E+01			1,2,4-Trimethylbenzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_S (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	13	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.43	0.197	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
6.06E-02	7.92E-06	6.14E-03	25	9,369	442.30	649.17	0.0E+00	6.0E-03	120.20

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.233	0.382	9.98E-08	0.534	5.33E-08	4,000	2.30E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	11,654	2.69E-03	1.15E-01	1.76E-04	2.57E-03	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	2.30E+01	0.10	8.33E+01	2.57E-03	4.00E+02	#NUM!	3.81E-03	8.75E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	6.0E-03

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	1.4E-02

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_{g} ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_{g} (ppmv)	Chemical
108678	6.20E+00			1,3,5-Trimethylbenzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_S (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	13	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.43	0.197	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
6.02E-02	8.67E-06	5.87E-03	25	9,321	437.89	637.25	0.0E+00	6.0E-03	120.20

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.233	0.382	9.98E-08	0.534	5.33E-08	4,000	6.20E+00	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	11,640	2.57E-03	1.10E-01	1.76E-04	2.55E-03	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	6.20E+00	0.10	8.33E+01	2.55E-03	4.00E+02	#NUM!	3.80E-03	2.36E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	6.0E-03

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	3.8E-03

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	ETHYL TOLUENE AS: Chemical
	Soil Gas Concentration Data			
95476	5.20E+00			o-Xylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	13	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.43	0.197	5

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v.b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
8.70E-02	1.00E-05	5.18E-03	25	8.661	417.60	630.30	0.0E+00	1.0E-01	106.17

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.233	0.382	9.98E-08	0.534	5.33E-08	4.000	5.20E+00	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	10.370	2.48E-03	1.06E-01	1.76E-04	3.68E-03	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	5.20E+00	0.10	8.33E+01	3.68E-03	4.00E+02	4.95E+245	4.09E-03	2.12E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	1.0E-01

END

DATA ENTRY SHEET
VAPOR INTRUSION ANALYSIS
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	2.0E-04

MESSAGE SUMMARY BELOW:

END

INTRODUCTION

This technical summary describes a vapor intrusion analysis of volatile organic compound (VOC) plumes at the Fashion Care Dry Cleaner located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia (HSI 10786). The Johnson & Ettinger transport model (J&E), release 3.1, obtained directly from the EPA download page was used to estimate the incremental cancer risk and Hazard Quotient from VOCs in groundwater at the EZ-Serve Gas Station building, Tax Parcel 18-343-13-001, Georgia-Alabama Commercial Investments, LLC property (Gas Station). A companion analysis was performed for Tax Parcel 18-333-02-023, Asl Limited Partnership property, an undeveloped wooded area located adjacent to the Fashion Care property (Wooded Area). A hypothetical structure identical to the Gas Station was the basis for calculations for the Wooded Area. Table E-1 summarizes the J&E model inputs and cumulative incremental risk results for the Gas Station the Wooded Area. For reference, the J&E Model can be obtained from the USEPA Web page[1]. The following discussion is obtained directly from the J&E User's Guide:

This revised version of the User's Guide corresponds with the release of Version 3.1 of the Johnson and Ettinger (1991) model (J&E) spreadsheets for estimating subsurface vapor intrusion into buildings. Several things have changed within the models since Version 2 was released in December 2000 and since the original version was released in September 1998. The following represent the major changes in Version 3.1 to be consistent with Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Quality from Groundwater and Soils dated November 25, 2002.

The J&E Model is a one-dimensional analytical solution to convective and diffusive vapor transport into indoor spaces and provides an estimated attenuation coefficient that relates the vapor concentration in the indoor space to the vapor concentration at the source of contamination. The model is constructed as both a steady-state solution to vapor transport (infinite or non-diminishing source) and as a quasi-steady-state solution (finite or diminishing source). Inputs to the model include chemical properties of the contaminant, saturated and unsaturated zone soil properties, and structural properties of the building.

This manual provides documentation and instructions for using the vapor intrusion model as provided in the accompanying spreadsheets.

Model results (both screening and advanced) are provided as either a risk-based soil or groundwater concentration, or as an estimate of the actual incremental risks associated with a user-defined initial concentration. That is to say that the model will reverse-calculate an "acceptable" soil or groundwater concentration given a user-defined risk level (i.e., target risk level or target hazard quotient), or the model may be used to forward-calculate an incremental cancer risk or hazard quotient based on an initial soil or groundwater concentration.

USER INPUTS

Limited input from the user is allowed in the screening version of the J&E model. User model inputs for the Fashion Care vapor intrusion analysis summarized in Table E-1 are discussed in the following:

[1] http://www.epa.gov/oswer/riskassessment/airmodel/johnson_ettinger.htm

Groundwater Concentration (Gas Station): Shallow groundwater water concentration data obtained in March, 2010, was evaluated as the basis for estimating representative VOC concentrations in groundwater beneath the Gas Station tax parcel. VOC concentrations from monitoring wells FMW-1 and MW-11 were averaged in order to provide a representative groundwater concentration scenario for this location. Several monitoring wells surrounding the Gas Station have or had free product (petroleum) and did not provide representative (or any) chlorinated compound data. Results of individual VOC constituent risk used to determine the cumulative incremental cancer and Hazard Quotient risk for the Gas Station are shown in Table E-2.

Groundwater Concentration (Wooded Area): Shallow groundwater water concentration data obtained from monitoring wells FMW-5, FMW-6, FMW-11 (March 2010) and MW-14 (September 2008) were used to calculate VOC groundwater concentrations where a hypothetical structure would encounter vapor intrusion at a future date. The area encompassed by these wells fairly represents a potential development area from a structure similar to the Gas Station. This area also emphasizes the portion of the groundwater plume with significant PCE and TCE concentrations. Results of individual VOC constituent risk used to determine the cumulative incremental cancer and Hazard Quotient risk for the Wooded Area are shown in Table E-3.

Soil Profile SCS Classifications: As shown in Table E-1, soil boring FMW-1 was used to obtain the depth to groundwater, the soil characterization at the groundwater interface (Silty Clay) and the vadose zone lithology (Sand). These data have some of the largest influence on model results for the GW-SCREEN module used for this analysis.

Model Defaults: Default values for air exchange, slab thickness, air entry rate, and other structure variables were used. Although site specific building structure data could be used, the results from the modeling would likely not change significantly due to the model assumptions for human exposure and associated pathways of exposure. This is due to the inherent "exposure per unit volume" composition of the model. More advanced modeling would require a significant amount of structure measurement, including estimates of floor crack area, actual air exchange rates for this specific dry cleaner, and pressure differentials between inside and outside the building.

RESULTS AND CONCLUSION

Modeling of VOC vapor intrusion was conducted for Fashion Care adjoining properties using the standardized Johnson & Ettinger convection/diffusion model as executed in Excel spread sheet format and distributed by USEPA, Vesion 3.1 (2004). Groundwater concentrations are summarized in Tables E-2 for the Gas Station and in Table E-3 for the Wooded Lot.

All scenarios are far below a Hazard Quotient of 1 for cumulative VOCs.

The conclusion for the Gas Station vapor intrusion analysis is that the incremental cancer risk, as calculated using very conservative model input assumptions, is below the HSRA standard of one-per-hundred thousand.

The overall conclusion for the Wooded Area hypothetical scenario is that the incremental cancer risk exceeds the allowable HSRA standard of one-per-hundred thousand.

Model limitations are a significant factor in drawing conclusions from this analysis.

MODEL LIMITATION

The simplified Johnson & Ettinger one-dimensional convection and diffusion model used in the calculations is useful for screening under ideal conditions using site specific data. The Fashion Care site does not offer ideal conditions and exhibits the potential for significant variability in key simulation data inputs. Alternative site specific data inputs and assumptions could also be used to generate much different results. The conceptual model upon which this analysis was conducted may require revision in the future in order to improve the vapor intrusion predicative capability.

Tables

Table E-1
Input Parameters - Vapor Intrusion Modeling
Tax Parcels 18-343-13-001 and 18-333-02-023
Johnson-Ettinger Groundwater Scenario
November 2011

Parameter	Symbol	Units	Value	Comment
User Input (Groundwater Screening Model Version 3.1, 2004)				
Gas Station GW Constituents	Cw	ug/L		See Table E-2 (FMW1 & MW-11)
Woded Lot GW Constituents	Cw	ug/L		See Table E-3 (FMW5, FMW6, FMW11, MW14)
Slab Thickness	L_F	cm	15	Only 15 or 200 Allowed In Model - 15 Used
Depth to Water	L_{WT}	cm	549	Soil Boring Log FMW-1
Average Media Temperature	T_S	^oC	13	Soil and Groundwater Annual Average Temp
Average Vapor Intrusion Rate	Q_{soil}	L/min	5	50th Percentile For Climate Region 4
Model Inputs Used for Variable Calculations or Assumptions				
Soil Type At Water Table	SCS	n/a	SIC	Silty Clay - Soil Boring Log FMW-1
Soil Type In Vadose Zone	SCS	n/a	S	Sand - Soil Boring Log FMW-1
Soil Constants Per SCS Code	Automatic Paramerter Lookup Function			Tabulated in VLOOKUP Sheet of Model
Vadose Zone Vapor Permeability	K_V	cm^2		Model Calculation Used
Target Risk (Carcinogens)	TR	n/a	1.0E-05	HSRA based allowable
Target Hazard Quotient (Non-Cancer)	THQ	n/a	1.0	Allowable Hazard Quotient for RfC
Averaging Time - Carcinogens	AT_C	yrs	70	EPA Recommended Per Model Guidance
Averaging Time - Noncarcinogens	AT_{NC}	yrs	30	EPA Recommended Per Model Guidance
Exposure Duration	ED	yr	30	EPA Recommended Per Model Guidance
Exposure Frequency	EF	days/yr	30	EPA Recommended Per Model Guidance

EZ-Serve Gas Station (Tax Parcel 18-343-13-001)		
Cummulative Risk - Hazard Quotient	2.6E-01	CummulativeToxicity All Detected VOCs
Cummulative Risk - Cancer	5.6E-06	Cummulative Cancer All Detected VOCs
Wooded Area (Tax Parcel 18-333-02-023)		
Cummulative Risk - Hazard Quotient	6.0E-02	CummulativeToxicity All Carcinogen VOCs
Cummulative Risk - Cancer	2.3E-05	Cummulative Cancer All Carcinogen VOCs

Table E-2
Model Results - Vapor Intrusion Modeling
Georgia-Alabama Commercial Investment Property
Tax Parcel 18-343-13-001
Johnson-Ettinger Groundwater Scenario

Groundwater Constituents	FMW-1	MW-11	Average	CAS No.	RISK FACTOR	
	(mg/L)	(mg/L)	(mg/L)	(VLOOKUP)	Cancer	Hazard
Trichloroethene	0.0034	0.016	0.0097	79016	1.1E-06	5.9E-04
Tetrachloroethene	0.006	0.026	0.016	127184	1.3E-07	8.7E-05
cis-1,2 Dichlorothene	0.024	0.021	0.0225	156592	NA	9.6E-04
trans-1,2 Dichlorethene	0.0025	0.0011	0.0018	156605	NA	6.3E-05
Vinyl Chloride	0.001	0.001	0.001	75014	3.3E-08	8.8E-05
Benzene	1.2	0.047	0.62	71432	3.7E-06	3.7E-02
Toluene	3.4	0.0058	1.70	108883	NA	7.7E-03
Ethylebenzene	0.6	0.017	0.31	100414	5.7E-07	5.3E-04
total-Xylenes (as P-)	2.34	0.0084	1.17	106423	NA	2.0E-02
Methylcyclohexane	0.068	0.0012	0.035	108872	NA	2.0E-04
Isopropyl Benzene	0.027	0.001	0.014	98828	NA	7.2E-05
MTBE	3.2	0.0041	1.60	1634044	NA	4.8E-04
Cyclohexane (as Hexane)	0.1	0.0025	0.051	110827	NA	1.9E-01
Cummulative Risk					**5.6E-06**	**2.6E-01**

Notes:

1) Ethylbenzene unit risk factor (URF) was updated in the J&E model database per EPA changes in 2008.
2) Values in yellow are 1/2 the reporting limit.
3) N/A for Cancer Risk Factor indicates compound is not reported in J&E as carcinogen.
4) FMW-1 sampled 3/8/2010. MW-11 sampled 3/11/2010.

Table E-3
Model Results - Vapor Intrusion Modeling
Asl Limited Partnership Property
Tax Parcel 18-333-02-023
Johnson-Ettinger Groundwater Scenario

Groundwater Constituents	FMW-5	FMW-6	FMW-11	MW-14	Average	CAS No.	RISK FACTOR	
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(VLOOKUP)	Cancer	Hazard
Trichloroethene	0.029	0.052	0.011	0.26	0.088	79016	1.0E-05	5.3E-03
Tetrachloroethene	1.2	1.4	0.044	0.26	0.726	127184	6.0E-06	3.9E-03
cis-1,2 Dichlorothene	0.039	0.18	0.01	2.6	0.707	156592	NA	3.0E-02
trans-1,2 Dichlorethene	0.005	0.005	0.005	0.018	0.008	156605	NA	2.8E-04
Vinyl Chloride	0.0028	0.002	0.002	0.83	0.209	75014	7.0E-06	1.8E-02
Benzene	BDL	BDL	BDL	0.13	0.033	71432	2.0E-07	2.0E-03
Ethylebenzene	BDL	BDL	BDL	0.0014	0.000	100414	0.0E+00	0.0E+00
Non-Carcinogen Compounds (Not Modeled)								
Toluene	BDL	BDL	BDL	0.015		108883		
total-Xylenes (as P-)	BDL	BDL	BDL	0.0059		106423		
Methylcyclohexane	BDL	BDL	BDL			108872		
Isopropyl Benzene	BDL	BDL	BDL	0.0014		98828		
MTBE	BDL	0.064	0.14	0.13		1634044		
Cyclohexane (as Hexane)	BDL	BDL	BDL	0.026		110827		
Cummulative Risk							**2.3E-05**	**6.0E-02**

Notes:

1) Ethylbenzene unit risk factor (URF) was updated in the J&E model database per EPA changes in 2008.
2) Values in yellow are 1/2 the reporting limit.
3) N/A for Cancer Risk Factor indicates compound is not reported in J&E as carcinogen.
4) FMW-5, FMW-6, FMW-11 sampled 3/11/2010. MW-14 sampled 9/3/2008.

Model Input and Output

Tax Parcel 18-343-13-001, Georgia-Alabama Commercial Investments, LLC Property

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
71432	6.20E+02	Benzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
8.80E-02	9.80E-06	5.54E-03	25	7.342	353.24	562.16	5.89E+01	1.79E+03	7.8E-06	3.0E-02

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4.000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	8,091	3.12E-03	1.33E-01	1.76E-04	1.83E-02	4.62E-05	1.28E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	8.24E+04	0.10	8.33E+01	1.83E-02	4.00E+02	2.44E+49	1.41E-05	1.16E+00	7.8E-06	3.0E-02

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.79E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
3.7E-06	3.7E-02

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
156592	2.25E+01	cis-1,2-Dichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.36E-02	1.13E-05	4.07E-03	25	7.192	333.65	544.00	3.55E+01	3.50E+03	0.0E+00	3.5E-02

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4.000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	7.704	2.36E-03	1.00E-01	1.76E-04	1.53E-02	5.12E-05	1.41E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	2.26E+03	0.10	8.33E+01	1.53E-02	4.00E+02	1.12E+59	1.56E-05	3.52E-02	NA	3.5E-02

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	3.50E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	9.6E-04

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based groundwater concentration is based on a route-to-route extrapolation.

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Cyclohexane modeled as: Chemical
110543	5.10E+01	Hexane

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
2.00E-01	7.77E-06	1.66E+00	25	6.895	341.70	508.00	4.34E+01	1.24E+01	0.0E+00	2.0E-01

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4.000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	7.697	9.64E-01	4.11E+01	1.76E-04	4.16E-02	6.35E-05	1.76E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	2.09E+06	0.10	8.33E+01	4.16E-02	4.00E+02	5.38E+21	1.94E-05	4.06E+01	NA	2.0E-01

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.24E+04	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	1.9E-01

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
100414	3.10E+02	Ethylbenzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.50E-02	7.80E-06	7.86E-03	25	8.501	409.34	617.20	3.63E+02	1.69E+02	2.5E-06	1.0E+00

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4.000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	10,121	3.84E-03	1.64E-01	1.76E-04	1.56E-02	3.56E-05	9.85E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	5.07E+04	0.10	8.33E+01	1.56E-02	4.00E+02	8.88E+57	1.09E-05	5.51E-01	2.5E-06	1.0E+00

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.69E+05	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
5.7E-07	5.3E-04

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
98828	1.40E+01	Cumene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
6.50E-02	7.10E-06	1.46E-02	25	10,335	425.56	631.10	4.89E+02	6.13E+01	0.0E+00	4.0E-01

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{ra} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4.000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	12,602	5.98E-03	2.55E-01	1.76E-04	1.35E-02	2.75E-05	7.62E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	3.57E+03	0.10	8.33E+01	1.35E-02	4.00E+02	7.31E+66	8.41E-06	3.00E-02	NA	4.0E-01

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	6.13E+04	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	7.2E-05

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
108872	3.50E+01	Methylcyclohexane

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.35E-02	8.52E-06	1.03E-01	25	7.474	373.90	572.20	7.85E+01	1.40E+01	0.0E+00	3.0E+00

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4.000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	8,551	5.61E-02	2.39E+00	1.76E-04	1.53E-02	2.42E-05	6.71E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	8.37E+04	0.10	8.33E+01	1.53E-02	4.00E+02	1.35E+59	7.40E-06	6.19E-01	NA	3.0E+00

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.40E+04	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	2.0E-04

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
1634044	1.60E+03	MTBE

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
1.02E-01	1.05E-05	6.23E-04	25	6.678	328.30	497.10	7.26E+00	5.10E+04	0.0E+00	3.0E+00

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4.000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	7,256	3.73E-04	1.59E-02	1.76E-04	2.13E-02	1.96E-04	5.36E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	2.54E+04	0.10	8.33E+01	2.13E-02	4.00E+02	2.77E+42	5.85E-05	1.49E+00	NA	3.0E+00

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	5.10E+07	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	4.8E-04

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
127184	1.60E+01	Tetrachloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.20E-02	8.20E-06	1.84E-02	25	8.288	394.40	620.20	1.55E+02	2.00E+02	5.9E-06	6.0E-01

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4.000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	9,523	9.35E-03	3.98E-01	1.76E-04	1.50E-02	2.80E-05	7.74E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	6.37E+03	0.10	8.33E+01	1.50E-02	4.00E+02	2.31E+60	8.54E-06	5.44E-02	5.9E-06	6.0E-01

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	2.00E+05	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
1.3E-07	8.7E-05

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
79016	9.70E+00	Trichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.90E-02	9.10E-06	1.03E-02	25	7.505	360.36	544.20	1.66E+02	1.47E+03	1.1E-04	4.0E-02

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4.000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	8,520	5.62E-03	2.39E-01	1.76E-04	1.64E-02	3.45E-05	9.54E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	2.32E+03	0.10	8.33E+01	1.64E-02	4.00E+02	1.03E+55	1.05E-05	2.44E-02	1.1E-04	4.0E-02

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.47E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
1.1E-06	5.9E-04

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based groundwater concentration is based on a route-to-route extrapolation.

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
108883	1.70E+03	Toluene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
8.70E-02	8.60E-06	6.62E-03	25	7.930	383.78	591.79	1.82E+02	5.26E+02	0.0E+00	4.0E-01

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4.000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	9,122	3.47E-03	1.48E-01	1.76E-04	1.81E-02	4.20E-05	1.16E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	2.51E+05	0.10	8.33E+01	1.81E-02	4.00E+02	9.03E+49	1.28E-05	3.22E+00	NA	4.0E-01

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	5.26E+05	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	7.7E-03

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Total Xylenes Modeled as: Chemical
106423	1.17E+03	p-Xylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.69E-02	8.44E-06	7.64E-03	25	8.525	411.52	616.20	3.89E+02	1.85E+02	0.0E+00	1.0E-01

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{ra} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4.000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	10,213	3.71E-03	1.58E-01	1.76E-04	1.60E-02	3.76E-05	1.04E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	1.85E+05	0.10	8.33E+01	1.60E-02	4.00E+02	3.29E+56	1.15E-05	2.12E+00	NA	1.0E-01

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.85E+05	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	2.0E-02

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
156605	1.80E+00	trans-1,2-Dichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.07E-02	1.19E-05	9.36E-03	25	6.717	320.85	516.50	5.25E+01	6.30E+03	0.0E+00	7.0E-02

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{ra} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4.000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	7.105	5.66E-03	2.41E-01	1.76E-04	1.47E-02	3.47E-05	9.59E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	4.34E+02	0.10	8.33E+01	1.47E-02	4.00E+02	2.97E+61	1.06E-05	4.59E-03	NA	7.0E-02

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	6.30E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	6.3E-05

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based groundwater concentration is based on a route-to-route extrapolation.

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
75014	1.00E+00	Vinyl chloride (chloroethene)

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
1.06E-01	1.23E-05	2.69E-02	25	5,250	259.25	432.00	1.86E+01	8.80E+03	8.8E-06	1.0E-01

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{ra} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4.000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	4,966	1.89E-02	8.07E-01	1.76E-04	2.21E-02	3.74E-05	1.04E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	8.07E+02	0.10	8.33E+01	2.21E-02	4.00E+02	1.00E+41	1.14E-05	9.22E-03	8.8E-06	1.0E-01

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	8.80E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
3.3E-08	8.8E-05

MESSAGE SUMMARY BELOW:

END

Model Input and Output

Parcel 18-333-02-023, Asl Limited Partnership Property

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
156592	7.07E+02	cis-1,2-Dichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.36E-02	1.13E-05	4.07E-03	25	7.192	333.65	544.00	3.55E+01	3.50E+03	0.0E+00	3.5E-02

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4.000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	7.704	2.36E-03	1.00E-01	1.76E-04	1.53E-02	5.12E-05	1.41E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	7.10E+04	0.10	8.33E+01	1.53E-02	4.00E+02	1.12E+59	1.56E-05	1.11E+00	NA	3.5E-02

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	3.50E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	3.0E-02

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based groundwater concentration is based on a route-to-route extrapolation.

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
127184	7.26E+02	Tetrachloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.20E-02	8.20E-06	1.84E-02	25	8.288	394.40	620.20	1.55E+02	2.00E+02	5.9E-06	6.0E-01

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4.000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	9,523	9.35E-03	3.98E-01	1.76E-04	1.50E-02	2.80E-05	7.74E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	2.89E+05	0.10	8.33E+01	1.50E-02	4.00E+02	2.31E+60	8.54E-06	2.47E+00	5.9E-06	6.0E-01

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	2.00E+05	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
6.0E-06	3.9E-03

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
79016	8.80E+01	Trichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.90E-02	9.10E-06	1.03E-02	25	7.505	360.36	544.20	1.66E+02	1.47E+03	1.1E-04	4.0E-02

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4.000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	8,520	5.62E-03	2.39E-01	1.76E-04	1.64E-02	3.45E-05	9.54E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	2.11E+04	0.10	8.33E+01	1.64E-02	4.00E+02	1.03E+55	1.05E-05	2.22E-01	1.1E-04	4.0E-02

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.47E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
1.0E-05	5.3E-03

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based groundwater concentration is based on a route-to-route extrapolation.

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
75014	2.09E+02	Vinyl chloride (chloroethene)

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
1.06E-01	1.23E-05	2.69E-02	25	5,250	259.25	432.00	1.86E+01	8.80E+03	8.8E-06	1.0E-01

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{ra} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4.000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	4,966	1.89E-02	8.07E-01	1.76E-04	2.21E-02	3.74E-05	1.04E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	1.69E+05	0.10	8.33E+01	2.21E-02	4.00E+02	1.00E+41	1.14E-05	1.93E+00	8.8E-06	1.0E-01

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	8.80E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
7.0E-06	1.8E-02

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
156605	8.00E+00	trans-1,2-Dichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.07E-02	1.19E-05	9.36E-03	25	6.717	320.85	516.50	5.25E+01	6.30E+03	0.0E+00	7.0E-02

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{ra} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4.000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	7.105	5.66E-03	2.41E-01	1.76E-04	1.47E-02	3.47E-05	9.59E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	1.93E+03	0.10	8.33E+01	1.47E-02	4.00E+02	2.97E+61	1.06E-05	2.04E-02	NA	7.0E-02

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	6.30E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	2.8E-04

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based groundwater concentration is based on a route-to-route extrapolation.

END

Appendix B
Revised Draft Environmental Covenants

Included are revised draft Environmental Covenants for:

- Parcel 18-343-13-002; 2211 Savoy Drive, Chamblee, Georgia; John F. Rowan, Sr. Item IV Trust.
- Parcel 18-343-13-001; 4308 North Peachtree Road, Chamblee, Georgia; Georgia-Alabama Commercial Investments, LLC.
- Parcel 18-333-02-023; no street address; Asl Limited Partnership.
- Parcel 18-343-13-005, 4306 North Peachtree Road, Chamblee, Georgia, Southern Automatic Company

Parcel 18-343-13-002; 2211 Savoy Drive, Chamblee, Georgia; John F. Rowan, Sr. Item IV Trust

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE
Suite 1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor: The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
P.O. Box 82
Rancho Santa Fe, CA 92067

Grantee/Holder: <Company Name or individual(s)>
<Mailing address>

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1152 East Tower
Atlanta, GA 30334

Parties with interest in the Property: <Company Name or individual(s)>
<Mailing address>

Property:

The property subject to this Environmental Covenant is the Fashion Care/Executive Care Tract (hereinafter "Property"), located at 2211 Savoy Drive in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on November 7, 2003 from Business Associates, Inc., a Georgia Corporation to John F. Rowan recorded in Deed Book 15562, Page 660, DeKalb County Records. The area is located in Land Lot 343 of the 18th District of DeKalb County, Georgia. The property consists of approximately 0.61 acres of property developed with a single, one-story building that contains a drycleaner on the west side and a restaurant on the east side. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-343-13-002 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document[s]:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.
- Point of Compliance Monitoring Plan (as referenced in Activity 4)

These documents are available at the following locations:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Fashion Care Cleaners
2211 Savoy Drive
Chamblee, GA

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act and the Georgia VRP.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by the Trust of John F. Rowan, Sr., its successors and assigns, <name of Grantee/Holder>, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the Property. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene, vinyl chloride and 1,1-Dichloroethene have been detected in groundwater beneath the Property. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene and vinyl chloride have been detected in soil beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The institutional controls consist of no use of groundwater on the Property, and utility and construction worker protection requirements regarding impacted soil and groundwater in designated areas of the property. Engineering controls required for the Property are the maintenance of existing concrete and asphalt covering soil impacted with regulated chemicals in Area _ (see Figure _), the implementation and maintenance of vapor mitigation measures beneath any existing enclosed structures on the Property and any enclosed structures constructed on the Property within the area indicated on attached Figure 1 and Figure 2. These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Grantor, the Trust of John F. Rowan, Sr. (hereinafter "Trust"), hereby binds Grantor, its successors and assigns to the activity and use restriction(s) for the Property identified herein and grants such other rights under

this Environmental Covenant in favor of the <name of Holder> and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq*., and the rules promulgated thereunder. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from exercising any authority under applicable law.

The Trust makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of <name of Holder>, EPD, Trust and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, <name of Holder> or its successors and assigns, the Trust or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, or apply for building permit(s). The EPD must be notified within 3 business days following any subsurface site work in the environmentally impacted areas shown on Figures 1 and 2.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant. The notice shall explicitly state the requirements of Activities 5-8 to ensure worker protection and proper handling of impacted media.

4. Periodic Reporting. Annually, beginning no later than 12 months following the effective date of this Environmental Covenant, the Owner shall submit to EPD a completed Site Use, Activity and Non-Residential Monitoring Evaluation Form (attached). In addition, an Annual Point of Compliance Monitoring Report. as specified in the EPD approved Point of Compliance Monitoring Plan, must be submitted to the EPD until point of compliance monitoring is deemed unnecessary by the EPD in accordance with the specifications set forth in the Point of Compliance Monitoring Plan.

5. Activity and Use Limitation(s). The Property shall be used only for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any residential use of the Property shall be prohibited unless EPD concurs that soil and groundwater are remediated to residential RRS. A vapor mitigation system or barrier shall be installed and maintained on existing structures and on any additional enclosed structures constructed until the HSRA regulated substances in soil and groundwater at the Property reach HSRA RRS.

6. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless HSRA regulated substances are treated to below HSRA residential RRS for groundwater.

   Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

7. Soil Limitation. The concrete and asphalt covering the area designated in Figure 1 as having regulated substances at concentrations greater than HSRA non-residential RRS, must be maintained and shall only be breached in accordance with the restrictions herein. Should intrusive activities within this area be required, the extracted, impacted soil should be managed in accordance with all applicable local, state and federal rules and regulations governing the management of such material. Removed soil in this area should not be placed back into the excavation, but be properly characterized for disposal in accordance with 40 CFR Part 261(specifically 40 CFR Parts 261.20-24, regarding characteristic waste) and transported and disposed of at an appropriate disposal facility. The excavation should be backfilled with clean fill material and recapped with an impervious surface. Recapping of the area of excavation would not be necessary if all the impacted soil in the excavation area is removed to below applicable HSRA residential RRS to the water table for the regulated chemicals of concern noted in the "Description of Contamination and Corrective Action" above.

8. Utility Worker & Construction Worker Protection. HSRA regulated chemicals have been identified in soil and groundwater above calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and/or utility workers. The following regulated chemicals have been identified in soil above calculated risk-based threshold levels for the protection of construction workers and/or utility workers as indicated. The area with soil concentrations above these levels is identified on Figure 1, attached.

Soil - HSRA Type 5 RRS for the Protection of Construction Workers and/or Utility Workers			
HSRA regulated chemical	Construction Worker Threshold Concentration (mg/kg)	Utility Worker Threshold Concentration (mg/kg)	Comments
PCE	214	61	

The following regulated chemicals have been identified in groundwater above calculated risk-based threshold levels for the protection of construction workers and/or utility workers as indicated. The area(s) with groundwater concentrations above Type 5 RRS is identified on attached Figure 2. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade.

Groundwater - HSRA Type 5 RRS for the Protection of Construction Workers and/or Utility Workers			
HSRA regulated chemical	Construction Worker Threshold Concentration (mg/L)	Utility Worker Threshold Concentration (mg/L)	Comments
PCE	0.286	0.082	
Trichloroethene	1.02	0.290	
Cis-1,2-dichloroethene	12.8	91.3	This chemical was identified above the construction worker threshold only.
Trans-1,1-dichloroethene	0.174	1.24	
Vinyl chloride	0.27	0.097	

Prior to conducting construction or subsurface utility work that may result in exposure to soil or groundwater in the designated Type 5 areas, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted soil or groundwater performed in the execution of work should be done in accordance with Items 7 and 6 above, respectively.

The exposure duration assumed for utility worker was 35 days per year, for a period of 25 years. The exposure duration assumed for a construction worker was 250 days a year, within for a period of one year. Therefore, uitility worker exposure in the areas that meet Type 5 RRS, but exceed Type 1-4 RRS, should not exceed 35 days per year for 25 years, and for construction workers should not to exceed 250 days in a year. If on site works in the areas designated above are to be exceeded, then the procedures outlined above must be followed to eliminated the work exposure pathway.

9. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

10. Right of Access. In addition to any rights already possessed by EPD and/or the <name of Holder>, the Owner shall allow authorized representatives of EPD and/or <name of Holder> the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

11. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) <name of Holder>, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

12. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

13. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

14. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 10 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1154 East Tower
Atlanta, GA 30334

The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
P.O. Box 82
Rancho Santa Fe, CA 92067

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

The Trust of John F. Rowan, Sr.

_____
[Name of Signatory]
[Title]

Dated: _____

<NAME OF HOLDER>

_____
[Name of Person Acknowledging Receipt]

[Title]

Dated: _____

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

Exhibit A
Legal Description

All that tract or parcel of land lying and being in Land Lot 343 of the 18th District of DeKalb County, Georgia and being more particularly described as follows: Beginning at an iron pin on the westerly line of the right of way of North Peachtree Road (which line is 35 feet westerly from the center line of said road) and on the line dividing Land Lots 343 and 334; and running thence along said Land Lot line South, 89 degrees 53 minutes West, 213 feet to an iron pin; thence North 22 degrees 15 minutes West, 158.85 feet to an iron pin; thence North 15 degrees 11 minutes East, 120 feet to an iron pin on the southerly line of the right of way of I-285; thence South 74 degrees 49 minutes East along the southerly right of way of I-285, 100 feet to an iron pin; thence South 15 degrees 11 minutes West, 990 feet to an iron pin; thence South 23 degrees 25 minutes 30 seconds East, 111.6 feet to an iron pin; thence South 60 degrees 44 minutes East, 60 feet to an iron pin; thence North 89 degrees 53 minutes East, 75 feet to an iron pin on the westerly right of way of North Peachtree Road; thence along said right of way South 9 degrees 17 minutes 30 seconds West, 18 feet to the POINT OF BEGINNING. According to a Plat by Earnest L. Boggus dated June 14, 1968, revised April 10, 1969, revised May 8, 1970. Subject to covenants, easements and restrictions of record and to utility easements.

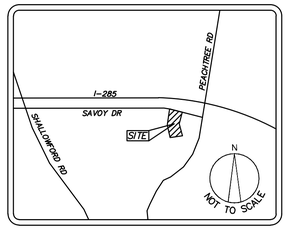
This is the same property conveyed by Business Associates, Inc. to CJH Capital Corporation by Warranty Deed dated September 21, 1987, recorded in Deed Book 5954, page 189, Clerk's Office, DeKalb County Superior Court.

Drawn By: GHA	Date: 8-23-11
Checked by: GTM	Project No. 08096

WINTER ENVIRONMENTAL

FIGURE 1
ENVIRONMENTAL COVENANT
SOIL HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 343 13 002

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341



VICINITY MAP

LEGEND

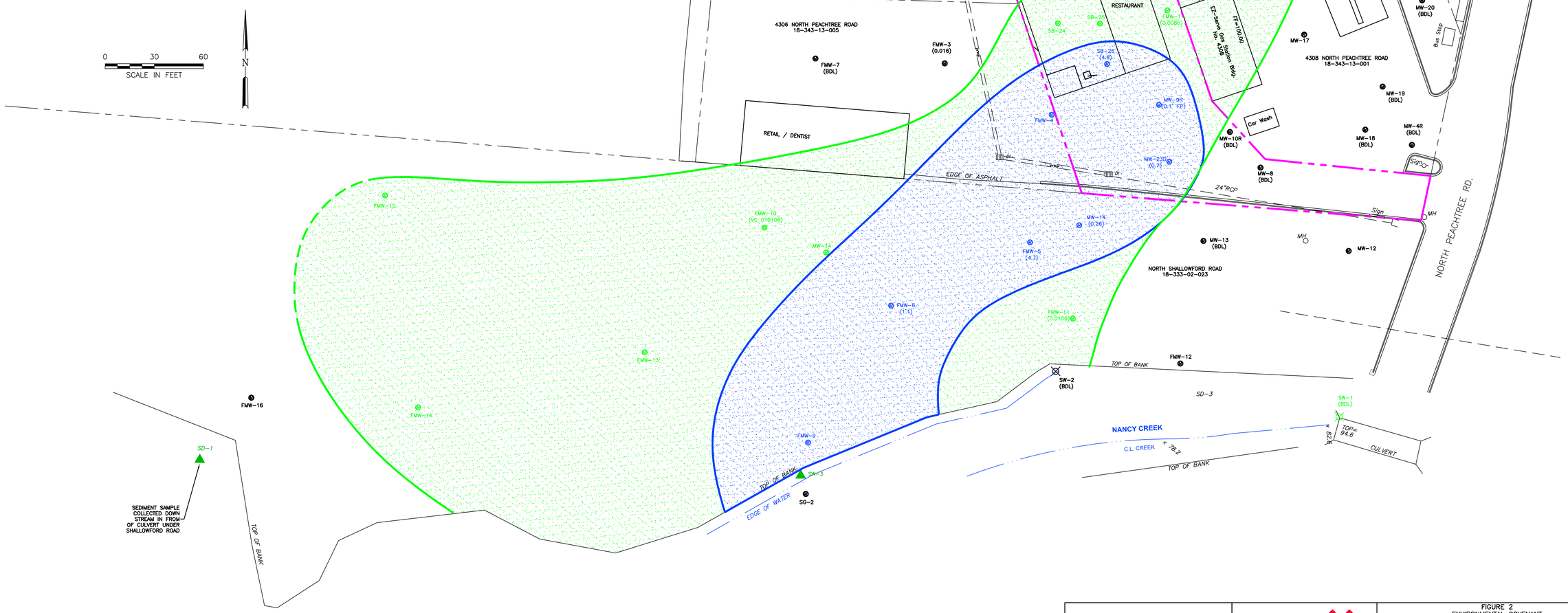
- APPROXIMATE PROPERTY LINE
- ENVIRONMENTAL COVENANT SUBJECT PARCEL
- AREA C – HSRA TYPE 1, 3, & 4 RRS BOUNDARY OF CONSTITUENTS OF INTEREST
- AREA D – HSRA TYPE 5 RRS BOUNDARY OF CONSTITUENTS OF INTEREST*
- SD-1 SEDIMENT SAMPLE LOCATION

* ALL WELLS HAD A COMPOUND >TYPE 5 FOR BOTH CONSTRUCTION & UTILITY WORKER NUMBERS

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

0 30 60
SCALE IN FEET

N



Drawn By: GHA	Date: 8-23-11
Checked by: GTM	Project No. 08096

WINTER ENVIRONMENTAL

FIGURE 2
ENVIRONMENTAL COVENANT
GROUNDWATER HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 343 13 002

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

Parcel 18-333-02-023; no street address; Asl Limited Partnership

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE
Suite 1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor:	ASL Limited Partnership 1515 S. Federal Hwy. 300 Boca Raton, FL 33432-7451
Grantee/Holder:	<Company Name or individual(s)> <Mailing address>
Grantee/Entity with express power to enforce:	State of Georgia Department of Natural Resources Environmental Protection Division 2 Martin Luther King Jr. Drive, SE Suite 1152 East Tower Atlanta, GA 30334
Parties with interest in the Property:	<Company Name or individual(s)> <Mailing address>

Property:

The property subject to this Environmental Covenant is the ASL Limited Partnership Tract (hereinafter "Property"), located on the 4200 – 4300 Block of North Shallowford Road, in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on October 12, 1982 from ARA Associates – Shangri-La, Ltd., a New Jersey limited partnership to ASL Limited Partnership recorded in Deed Book 4673, Page 272, DeKalb County Records. The area is located in Land Lot 334 of the 18th District of DeKalb County, Georgia. The property consists of approximately 10.45 acres of undeveloped property. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-333-02-023 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in

the following document:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.

This document is available at the following location:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Add Property Address here, or Owner Contact Information if undeveloped.

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act and the Georgia VRP.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by ASL Limited Partnership, its successors and assigns, <name of Grantee/Holder>, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the adjacent property; 2211 Savoy Drive, Chamblee Georgia. PCE, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene and vinyl chloride have been detected in groundwater beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The institutional controls consist of no use of groundwater on the Property, and utility and construction worker protection requirements regarding impacted groundwater in designated area of the property. Engineering controls required for the Property are the implementation and maintenance of vapor mitigation measures beneath any existing enclosed structures and any enclosed structures constructed within the area indicated on attached Figure 1. These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Grantor, ASL Limited Partnership (hereinafter "ASL"), hereby binds Grantor, its successors and assigns to the activity and use restrictions for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the <name of Holder> and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq*., and the rules promulgated thereunder. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from exercising any authority under applicable law.

ASL makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of <name of Holder>, EPD, ASL and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, <name of Holder> or its successors and assigns, ASL or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, apply for building permit(s). The EPD must be notified within 3 business days of any subsurface site work in the environmentally impacted area shown on Figure 1 that would affect the Property.

3. **Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant.** The notice shall explicitly state the requirements of Activities 5-7 to ensure worker protection and proper handling of impacted media.

4. Periodic Reporting. Annually, beginning no later than 12 months following the effective date of this Environmental Covenant, the Owner shall submit to EPD a completed Site Use, Activity and Non-Residential Monitoring Evaluation Form (attached).

5. Activity and Use Limitation(s). The Property shall be used only for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any residential use of the Property shall be prohibited unless EPD concurs that groundwater is remediated to residential RRS. A vapor mitigation system or barrier shall be installed and maintained with the construction of any enclosed structures within Areas _ and _ indicated on attached Figure 1 until the HSRA regulated substances in groundwater at the Property reach HSRA RRS.

6. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless COI are treated to below HSRA residential risk reduction standards.

   Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be

pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

7. Utility Worker & Construction Worker Protection. Levels of PCE have been identified in groundwater above 0.286 mg/L and 0.082 mg/L, the calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and utility workers, respectively. The area(s) with concentrations above Type 5 RRS levels is identified on attached Figure 1. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade. Prior to conducting construction or subsurface utility work that may result in exposure to groundwater in the designated area, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted groundwater performed in the execution of work should be done in accordance with Item 5 above.

   The exposure duration assumed for utility worker was 35 days per year, for a period of 25 years. The exposure duration assumed for a construction worker was 250 days a year, within for a period of one year. Therefore, utility worker exposure in the areas that meet Type 5 RRS, but exceed Type 1-4 RRS, should not exceed 35 days per year for 25 years, and for construction workers should not to exceed 250 days in a year. If on site works in the areas designated above are to be exceeded, then the procedures outlined above must be followed to eliminate the work exposure pathway.

8. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

9. Right of Access. In addition to any rights already possessed by EPD and/or the <name of Holder>, the Owner shall allow authorized representatives of EPD and/or <name of Holder> the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

10. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) <name of Holder>, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

11. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

12. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

13. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 10 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1154 East Tower
Atlanta, GA 30334

ASL Limited Partnership
1515 S. Federal Hwy. 300
Boca Raton, FL 33432-7451

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

ASL Limited Partnership

_____
[Name of Signatory]
[Title]

Dated: _____

<NAME OF HOLDER>

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

Exhibit A
Legal Description

All that tract or parcel of land lying and being in Land Lots 333 and 334 of the 18th District of DeKalb County, Georgia, and being more particularly described as follows:

Starting at an iron pin at the intersection of the North line of Land Lot 334 and the Nortwesterly side of North Peachtree Road (70 foot right-of-way), running thence South 15 degrees 26 minutes West along the Northwest side of North Peachtree Road, 117.62 feet; thence South 24 degrees 59 minutes West along siad right-of-way, 97.22 feet to a point; thence South 32 degrees 49 minutes West along said right-of-way, 97.52 feet to a point; thence running South 40 degrees 46 minutes West along said right-of-way, 97.55 feet to a point; running thence South 48 minutes 24 minutes West along said right-of-way 82.79 feet to a point; thence North 48 degrees 29 minutes West 157.2 feet to a point in Nancy Creek; thence North 88 degrees 44 minutes 30 seconds West 435.3 feet to a point; thence North 1 degree 15 minutes 30 seconds West 78 feet to a point in Nancy Creek; thence North 70 degrees 5 minutes 30 seconds West 80.10 feet to a point in Nancy Creek; thence South 62 degrees 24 minutes 30- seconds West 73.50 feet to a point in Nancy Creek; thence north 66 degrees 25 minutes 30 seconds West 158.30 feet to a point in Nancy Creek; thence North 78 degrees 16 minutes West 585.0 feet to a point in Nancy Creek; thence South 70 degrees 55 minutes West 138.50 feet to a point in Nancy Creek; thence South 34 degrees 5 minutes West 118.40 feet to a point in Nancy Creek; thence South 28 degrees 55 minutes East 35.0 feet to a point; thence South 61 degrees 5 minutes West 194.4 feet to a point on the Easterly right-of-way of North Shallowford Road, said road being an 80 foot right-of-way; thence North 29 degrees 30 minutes West 98.54 feet to a point; thence North 25 degrees 59 minutes 30 seconds West 255.67 feet to a point; thence South 89 degrees 49 minutes East 2175.67 feet to a point on the Northwesterly side of North Peachtree Road and the point of beginning.

Less and except all that tract or parcel of land lying and being in Land Lot 334 of the 18th District, DeKalb County, Georgia, conveyed from ASL Limited Partnership to Carlton G. Chapman on December 23, 1988, recorded in Deed Book 5689 page 052, DeKalb County Records, and being more particularly described as follows:

TO FIND THE TRUE POINT OF BEGINNING, commence at an iron pin set at the intersection of the north line of Land Lot 334 and the northwesterly right-of-way of North Peachtree Road; running thence south 15 degrees 12 minutes 04 seconds west along said right-of-way a distance of 116.74 feet to an iron pin set; running thence south 24 degrees 38 minutes 05 seconds west a distance of 60.00 feet to an iron pin set and the TRUE POINT OF BEGINNING; from the TRUE POINT OF BEGINNING run thence along the northwesterly right-of-way of North Peachtree Road, south 24 degrees 38 minutes 05 seconds west a distance of 37.22 feet to an iron pin set; thence continuing along said right-of-way south 32 degrees 28 minutes 05 seconds west a distance of 978.52 feet to a point; running thence south 40 degrees 03 minutes 05 seconds west a distance of 82.79 feet to an iron pin set; running thence north 48 degrees 49 minutes 55 seconds west a distance of 157.20 feet to an iron pin set; running thence north 00 degrees 07 minutes 01 seconds west a distance of 141.34 feet to an iron pin set; running thence north 89 degrees 50 minutes 05 seconds east a distance of 311.32 feet to an iron pin set and the TRUE POINT OF BEGINNING. Said tract containing 1.151 acres as shown by plat of survey for Carl Chapman, prepared by Quadra-Tech, Inc., dated December 12, 1986, being certified by Wallace Long Hambrick, Georgia Registered Land Surveyor No. 1375.

VICINITY MAP

LEGEND

APPROXIMATE PROPERTY LINE

ENVIRONMENTAL COVENANT SUBJECT PARCEL

AREA C – HSRA TYPE 1, 3, & 4 RRS BOUNDARY OF CONSTITUENTS OF INTEREST

AREA D – HSRA TYPE 5 RRS BOUNDARY OF CONSTITUENTS OF INTEREST*

SD-1 SEDIMENT SAMPLE LOCATION

* ALL WELLS HAD A COMPOUND >TYPE 5 FOR BOTH CONSTRUCTION & UTILITY WORKER NUMBERS

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

0 30 60
SCALE IN FEET

N

Drawn By: GHA	Date: 8-23-11
Checked by: GTM	Project No. 08096

WINTER ENVIRONMENTAL

FIGURE 1
ENVIRONMENTAL COVENANT
GROUNDWATER HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 333 02 023

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

Parcel 18-343-13-005, 4306 North Peachtree Road, Chamblee, Georgia,
Southern Automatic Company

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE Suite
1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor: Southern Automatic Company
4420 Tree Haven Drive, N.E.
Atlanta, Georgia 30342-3426

Grantee/Holder: <Company Name or individual(s)>
<Mailing address>

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1152 East Tower
Atlanta, GA 30334

Parties with interest in the Property: <Company Name or individual(s)>
<Mailing address>

Property:

The property subject to this Environmental Covenant is the Southern Automatic Company N. Peachtree Tract (hereinafter "Property"), located at 4306 N. Peachtree Road, in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on November 25, 1974 from Hoke A. Rowan, Jr. to Southern Automatic Company recorded in Deed Book 3267, Page 130, DeKalb County Records. The area is located in Land Lot 343 of the 18th District of DeKalb County, Georgia. The property consists of approximately 0.51 acres of property developed at the time of this covenant with a single, one-story building that contains a dentist office, a beauty shop, and other retail stores. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-343-13-005 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document:

Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.

This document is available at the following location:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Add Property Address here, or Owner Contact Information if undeveloped.

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act and the Georgia VRP.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by Southern Automatic Company, its successors and assigns, <name of Grantee/Holder>, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the adjacent property; 2211 Savoy Drive, Chamblee Georgia. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene, vinyl chloride and 1,1-Dichloroethene have been detected in groundwater beneath the Property. PCE, trichloroethene and cis-1,2-dichloroethene have been detected in soil beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The institutional controls consist of no use of groundwater on the Property, and utility and construction worker protection requirements regarding impacted groundwater in designated area of the property. Engineering controls required for the Property are the maintenance of existing concrete and asphalt covering soil impacted with regulated chemicals in Area _ (see Figure _), and the implementation and maintenance of vapor mitigation measures beneath any enclosed structures constructed on the Property within Area _ on attached Figure 1.

These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Grantor, Southern Automatic Company (hereinafter "Southern Automatic"), hereby binds Grantor, its successors and assigns to the activity and use restrictions for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the <name of Holder> and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq*., and the rules promulgated thereunder. Failure to timely enforce compliance with this

Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from exercising any authority under applicable law.

Southern Automatic makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of <name of Holder>, EPD, Southern Automatic and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, <name of Holder> or its successors and assigns, Southern Automatic or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activityand/orUseLimitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, apply for building permit(s. The EPD must be notified within 3 business days following any subsurface site work in the environmentally impacted areas shown on Figures 1 and 2.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant. . The notice shall explicitly state the requirements of Activities 5-7 to ensure worker protection and proper handling of impacted media.

4. Periodic Reporting. Annually, beginning no later than 12 months following the effective date of this Environmental Covenant, the Owner shall submit to EPD a completed Site Use, Activity and Non-Residential Monitoring Evaluation Form (attached).

5. Activity and Use Limitation(s). The Property shall be used only for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any residential use of the Property shall be prohibited unless EPD concurs that soil and groundwater are remediated to residential RRS. A vapor mitigation system or barrier shall be installed and maintained on any enclosed structures built over Area _ on Figure 1, until the HSRA regulated substances in soil in this area reach HSRA RRS.

6. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless HSRA regulated substances are treated to below HSRA residential RRS for groundwater.

Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

7. Soil Limitation. The concrete and asphalt covering the area designated in Figure 1 as having regulated substances at concentrations greater than HSRA non-residential RRS, must be maintained and shall only be breached in accordance with the restrictions herein. Should intrusive activities within the area designated in Figure 1 as having regulated substances at concentrations greater than HSRA non-residential RRS be required, the extracted, impacted soil should be managed in accordance with all applicable local, state and federal rules and regulations governing the management of such material. Removed soil in this area should not be placed back into the excavation, but be properly characterized for disposal in accordance with 40 CFR Part 261(specifically 40 CFR Parts 261.20-24, regarding characteristic waste) and transported and disposed of at an appropriate disposal facility. The excavation should be backfilled with clean fill material and recapped with an impervious surface. Recapping of the area of excavation would not be necessary if all the impacted soil in the excavation area is removed to below applicable HSRA residential RRS to the water table for the regulated chemicals of concern noted in the "Description of Contamination and Corrective Action" above.

8. Utility Worker & Construction Worker Protection. Levels of the following HSRA regulated chemicals have been identified in groundwater above calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and/or utility workers as indicated:

HSRA regulated chemical	Construction Worker Threshold Concentration (mg/L)	Utility Worker Threshold Concentration (mg/L)	Comments
PCE	0.286	0.082	
Trichloroethene	1.02	0.290	
Cis-1,2-dichloroethene	12.8	91.3	This chemical was identified above the construction worker threshold only.

The area(s) with concentrations above Type 5 RRS levels is identified on attached Figure 2. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade. Prior to conducting construction or subsurface utility work that may result in exposure to groundwater in the designated area, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted groundwater performed in the execution of work should be done in accordance with Item 5 above.

The exposure duration assumed for utility worker was 35 days per year, for a period of 25 years. The exposure duration assumed for a construction worker was 250 days a year, within for a period of one year. Therefore, utility worker exposure in the areas that meet Type 5 RRS, but exceed Type 1-4 RRS, should not exceed 35 days per year for 25 years, and for construction workers should not to exceed 250 days in a year. If on site works in the areas designated above are to be exceeded, then the procedures outlined above must be followed to eliminate the work exposure pathway.

9. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

10. Right of Access. In addition to any rights already possessed by EPD and/or the <name of Holder>, the Owner shall allow authorized representatives of EPD and/or <name of Holder> the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

11. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) <name of Holder>, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

12. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

13. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

14. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

RepresentationsandWarranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 10 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1154 East Tower
Atlanta, GA 30334

Southern Automatic Company
4420 Tree Haven Drive, N.E.
Atlanta, Georgia 30342-3426

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____day of _____, 20____.

Southern Automatic Company

_____
[Name of Signatory]
[Title]

Dated: _____

<NAMEOFHOLDER>

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____day of _____, 20 __, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____day of _____, 20 __, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

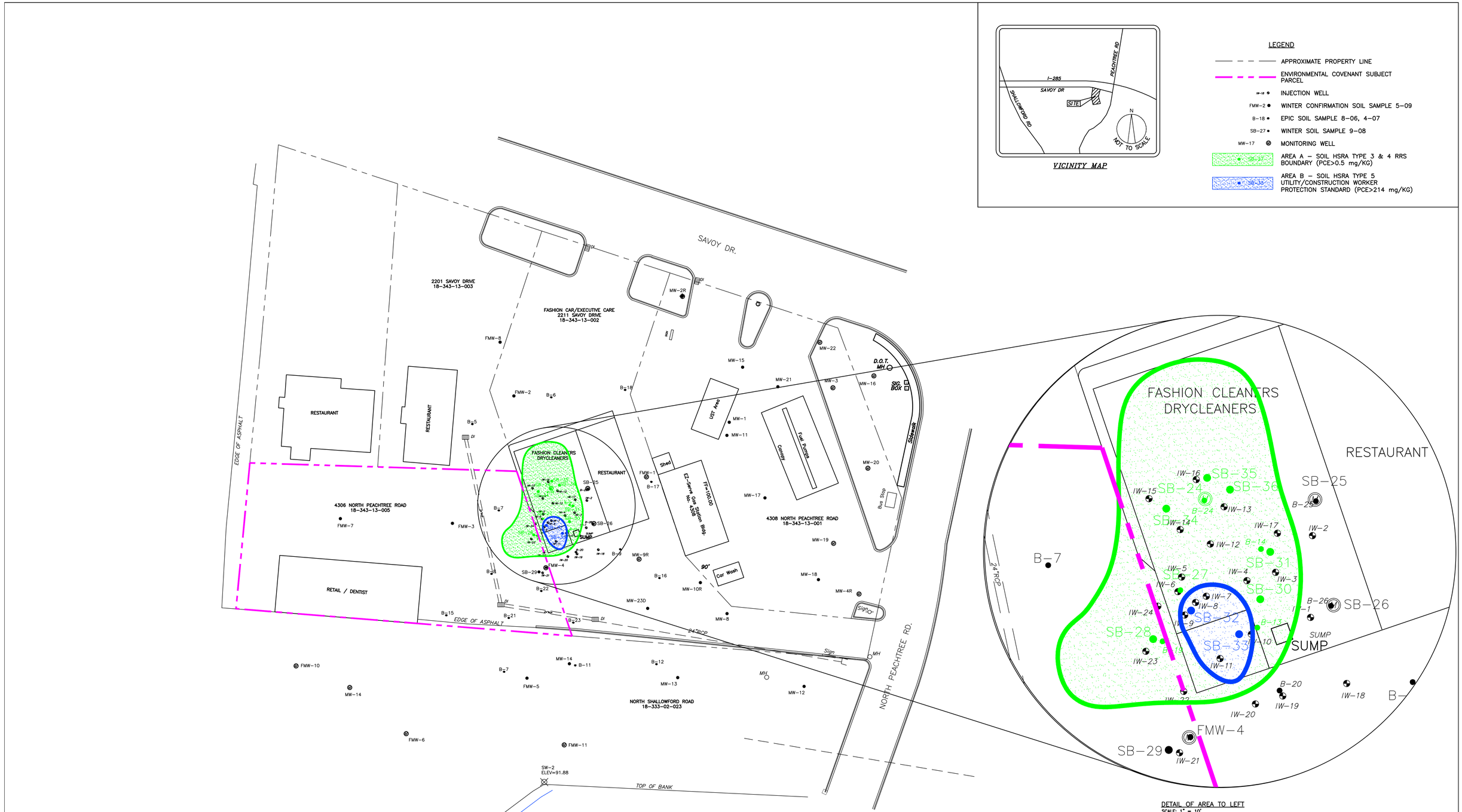
STATE OF _____
COUNTY OF _____

On this _____day of _____, 20 __, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

Exhibit A Legal
Description

Beginning at an iron pin on the south line of Land Lot 343, said point being south 89 degrees 53 minutes west 213.00 feet from the westerly right of way of North Peachtree Road, (70' R/W), thence south 89 degrees 53 minutes west 225.00 feet along the south line of Land Lot 343 to an iron pin, thence north 0 degrees 7 minutes west 316.8 feet to an iron pin on the southerly right of way of I-285, thence south 74 degrees 49 minutes east along the southerly right of way of I-285, 203.9 feet to an iron pin, thence south 15 degrees 11 minutes west 120.0 feet to a masonry nail, thence south 22 degrees 15 minutes east to the south line of Land Lot 343 and the point of beginning.



Drawn By: GHA	Date: 8-23-11
Checked by: GTM	Project No. 08096

WINTER ENVIRONMENTAL

FIGURE 1
ENVIRONMENTAL COVENANT
SOIL HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 343 13 005

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

VICINITY MAP

LEGEND

APPROXIMATE PROPERTY LINE

ENVIRONMENTAL COVENANT SUBJECT PARCEL

FMW-1 (0.0086) AREA C – HSRA TYPE 1, 3, & 4 RRS BOUNDARY OF CONSTITUENTS OF INTEREST

SB-26 (4.8) AREA D – HSRA TYPE 5 RRS BOUNDARY OF CONSTITUENTS OF INTEREST*

SD-1 SEDIMENT SAMPLE LOCATION

* ALL WELLS HAD A COMPOUND >TYPE 5 FOR BOTH CONSTRUCTION & UTILITY WORKER NUMBERS

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

0 30 60
SCALE IN FEET

N

Drawn By: GHA	Date: 8-23-11
Checked by: GTM	Project No. 08096

WINTER ENVIRONMENTAL

FIGURE 2
ENVIRONMENTAL COVENANT
GROUNDWATER HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 343 13 005

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

Appendix C
Surface Water Sampling Data

NANCY CREEK LOW FLOW SAMPLING
FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE, CHAMBLEE, DEKALB COUNTY, GEORGIA
HSI 10786

OVERVIEW

Surface water flow volume and volatile organic compounds (VOCs) were measured in Nancy Creek at three locations; upstream and two within the groundwater plume boundary, at the Fashion Care/Executive Care site (Site), HSI #10786. The Site is located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia. This work was done to address Item 1-bullet 4, Item 2 and Item 4 of the Environmental Protection Division's (EPD) correspondence dated December 2, 2010 regarding the Voluntary Investigation and Remediation Plan and Application dated July 9, 2010. Previous stream sampling events have been unable to detect target VOCs. This sampling and flow gauging was optimized for detection using sequential events at low flow conditions. This sampling effort is intended to definitively examine low flow (drought) surface water concentrations of VOCs resulting from Site groundwater discharging to Nancy Creek.

STREAM FLOW VOLUME

In October 2011, stream flow volume in Nancy Creek near 2211 Savoy Drive, Chamblee, Georgia, was directly measured on eight different days during approximately a three-week period. The EPD requested that samples be collected during flow periods that are close to the 7Q10 value of 3 cubic feet per second, which EPD provided (Item 1-bullet 4, Item 2 referenced above). Measurements were obtained using a Marsh-McBirney Flo-Mate 2000 electromagnetic flow meter with capability of measuring flow velocity from 0.01 to 20 feet per second. Stream flow volume was calculated by measuring an array of three to five flow velocities (depending on channel width) and respective flow depths to obtain a velocity/depth profile at the measurement station. Two measurement stations (Figure A) were used for each sampling event. The upstream flow station was located adjacent to the Site. The second station was located approximately 150 yards down-stream from the Site, and was intended to provide a quality check. Flow measurement stations were selected based on favorable stream channelization in order to facilitate consistent results and to reduce measurement error. Care was taken during measurements to accurately profile the flow channel, including measurement of channel width and multiple depth and velocity points across the profile to properly represent the depth and velocity. Flow volume measurements and associated surface water samples were conducted in two sequences, each consisting of four consecutive daily flow measurements and water sampling events (see Table A). The first sequence was obtained from October 6 through October 9, 2011. The second sequence was taken from October 21 through October 24, 2011. No measurable precipitation was reported in the Nancy Creek watershed during the ten days prior to the first sequence, and drought conditions were reported by local weather forecasters. USGS Station 02336360 (Nancy Creek at Rickenbacker Drive) precipitation data during this time period for are attached for reference. Based on

USGS station data, light rain was recorded approximately two days prior to the second, October 21 – 24 sequence, and a gradual flow volume decline to dry condition was observed (see the attached USGS hydrograph). Flow measurement decline in the second sequence, shown on Table A, are corroborated by the USGS data. Declining stream flow during the days after a rain event was expected to provide optimum conditions for detecting groundwater VOCs in Nancy Creek.

As shown on Table A, the stream flow during all the sampling events was well below the 7Q10 value of 3.0 cubic feet per second. During the first series of sampling, October 6 through October 9, 2011, flow ranged from 0.09 to 0.52 cubic feet per second. During the second series of sampling, October 21 through October 24, 2011, flow ranged from 0.53 to 1.45 cubic feet per second.

STREAM SAMPLING

Surface water samples were collected at three locations during each of the eight sampling events (Figure A and Table B). The location SW-1, located at the bridge on North Peachtree Road, is up-stream of the Site and was intended to detect up-stream sources of VOCs not associated with the Fashion Care site. Locations SW-2 and SW-3 are located as shown in Figure A to intercept any VOCs that would enter Nancy Creek from groundwater discharging from the Fashion Care site.

Samples were collected in preserved sample containers provided by Atlanta Environmental Services, Inc (AES). Sampling consisted of dipping the sample container directly into the stream flow and taking care to not flush the sample preservative from the vial. Samples containers were sealed then labeled, iced, and transported to the laboratory under proper chain of custody.

Laboratory results are summarized in Table B, and complete laboratory reports are attached. No Site constituents were observed in the results. A low detection of chloromethane was observed at 2 ug/L in SW-1 and does not appear associated with the Fashion Care site. Acetone was detected in all of the second sequence of samples, and appears to originate from an up-stream source not associated with the Fashion Care Site. Notably, the trend in the acetone data appears to corroborate the expectation that declining stream flow subsequent to a rain event produces the optimum conditions for detecting VOCs discharging to surface water from groundwater.

CONCLUSION

Surface water sampling conducted during both extreme low flow conditions and during post-rain groundwater discharge into Nancy Creek at the Fashion Care Site did not detect VOCs associated with the Site.

TABLE A
Nancy Creek Flow Volume
Fashion Care/Executive Care
HSI 10786

Series #1	Station 1 Upstream				Station 2 Downstream			
	W (ft)	Avg. Depth (ft)	FPS	Q (CFS)	W (ft)	Avg. Depth (ft)	FPS	Q (CFS)
October 6, 2011	6.67	0.50	0.13	0.43	2.17	0.15	1.60	0.52
October 7, 2011	3.92	0.28	0.08	0.09	2.25	0.13	1.35	0.38
	2.50	0.08	1.18	0.25				
			Total	0.33				
October 8, 2011	7.17	0.42	0.08	0.22	2.17	0.13	1.58	0.43
October 9, 2011	7.08	0.35	0.10	0.23	2.33	0.11	1.05	0.27
October 6-9, 2011	Four Day Average=			0.31	Four Day Average=			0.40

Series #2	Station 1 Upstream				Station 2 Downstream			
	W (ft)	Avg. Depth (ft)	FPS	Q (CFS)	W (ft)	Avg. Depth (ft)	FPS	Q (CFS)
October 21, 2011	7.17	0.57	0.35	1.45	3.08	0.30	1.33	1.23
October 22, 2011	6.83	0.65	0.22	0.98	3.58	0.14	1.63	0.82
October 23, 2011	4.67	0.27	0.53	0.66	3.00	0.33	0.53	0.53
October 24, 2011	6.83	0.45	0.25	0.77	3.67	0.17	1.62	0.99
October 21-24, 2011	Four Day Average=			0.96	Four Day Average=			0.89

Note: Georgia EPD has estimated Nancy Creek 7Q10 flow volume near the Site to be 3 cubic feet per second.

TABLE B
Nancy Creek Volatile Organics Detection
Fashion Care/Executive Care
HSI 10786

Sample Date	ACETONE (ug/L)			CHLOROMETHANE (ug/L)		
	SW-1	SW-2	SW-3	SW-1	SW-2	SW-3
October 6, 2011	22	<20	<20	<1	<1	<1
October 7, 2011	<20	<20	<20	<1	<1	<1
October 8, 2011	<20	<20	<20	2	<1	<1
October 9, 2011	<20	<20	<20	2	1	<1
October 21, 2011	21	22	23	<1	<1	<1
October 22, 2011	34	37	31	<1	<1	<1
October 23, 2011	46	40	51	<1	<1	<1
October 24, 2011	190	180	200	<1	<1	<1

Note: Only detected VOC compounds are shown.

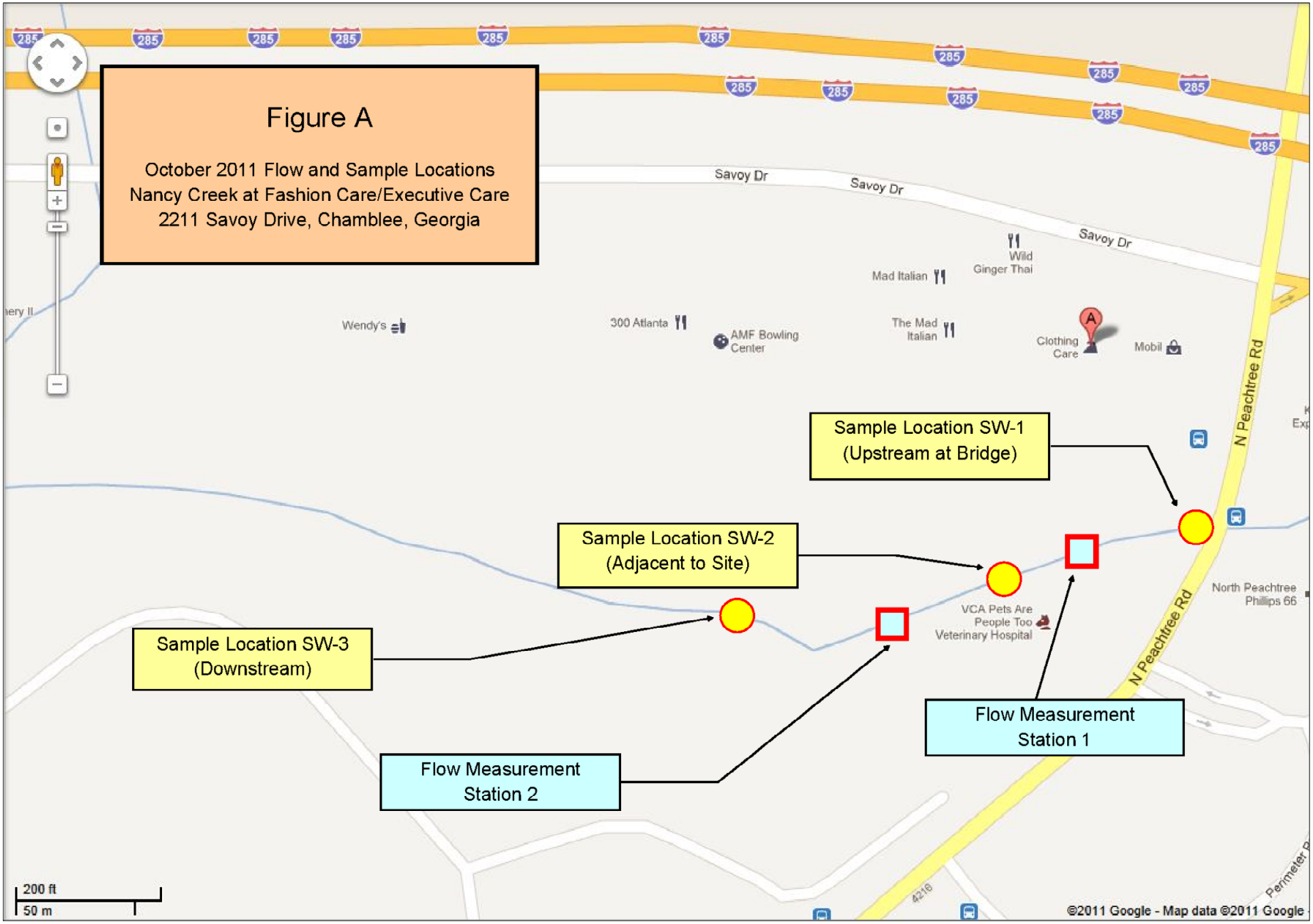


Figure A
October 2011 Flow and Sample Locations
Nancy Creek at Fashion Care/Executive Care
2211 Savoy Drive, Chamblee, Georgia
Sample Location SW-1
(Upstream at Bridge)
Sample Location SW-2
(Adjacent to Site)
Sample Location SW-3
(Downstream)
Flow Measurement
Station 1
Flow Measurement
Station 2
Savoy Dr
Savoy Dr
Savoy Dr
Wild
Ginger Thai
Mad Italian
Wendy's
300 Atlanta
AMF Bowling
Center
The Mad
Italian
Clothing
Care
Mobil
N Peachtree Rd
N Peachtree Rd
North Peachtree
Phillips 66
VCA Pets Are
People Too
Veterinary Hospital
200 ft
50 m
©2011 Google - Map data ©2011 Google

ATTACHMENT
USGS STATION 02336360
NANCY CREEK AT RICKENBACKER DRIVE
SEPTEMBER - OCTOBER, 2011

USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Real-time
Geographic Area: United States
GO

News updated July, 2011

USGS 02336360 NANCY CREEK AT RICKENBACKER DRIVE, AT ATLANTA, GA

PROVISIONAL DATA SUBJECT TO REVISION

Available data for this site: Time-series: Real-time data GO

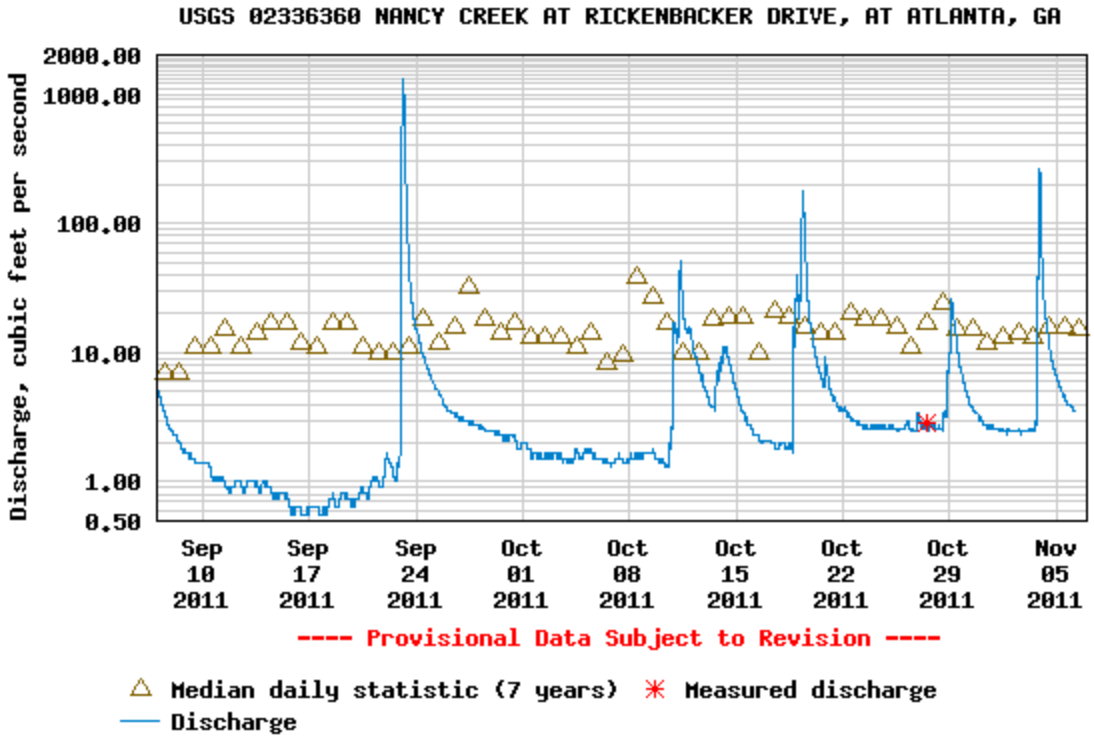
The USGS operation and maintenance of this real-time streamgage and water-quality monitor is funded in cooperation with the City of Atlanta, Georgia.
This station managed by the USGS Atlanta Field Office.

Available Parameters	Output format	Days	
All 8 Available Parameters for this site	Graph	60 (1-120)	GO
00065 Gage height	Graph w/ stats		
00060 Discharge	Graph w/o stats		
00045 Precipitation	Table		
00010 Temperature, water	Tab-separated		
00095 Specific cond at 25C			
00300 Dissolved oxygen			
00400 pH			
63680 Turbidity, Form Neph			

Summary of all available data for this site

Discharge, cubic feet per second

Most recent instantaneous value: 3.6 11-06-2011 05:15 EST



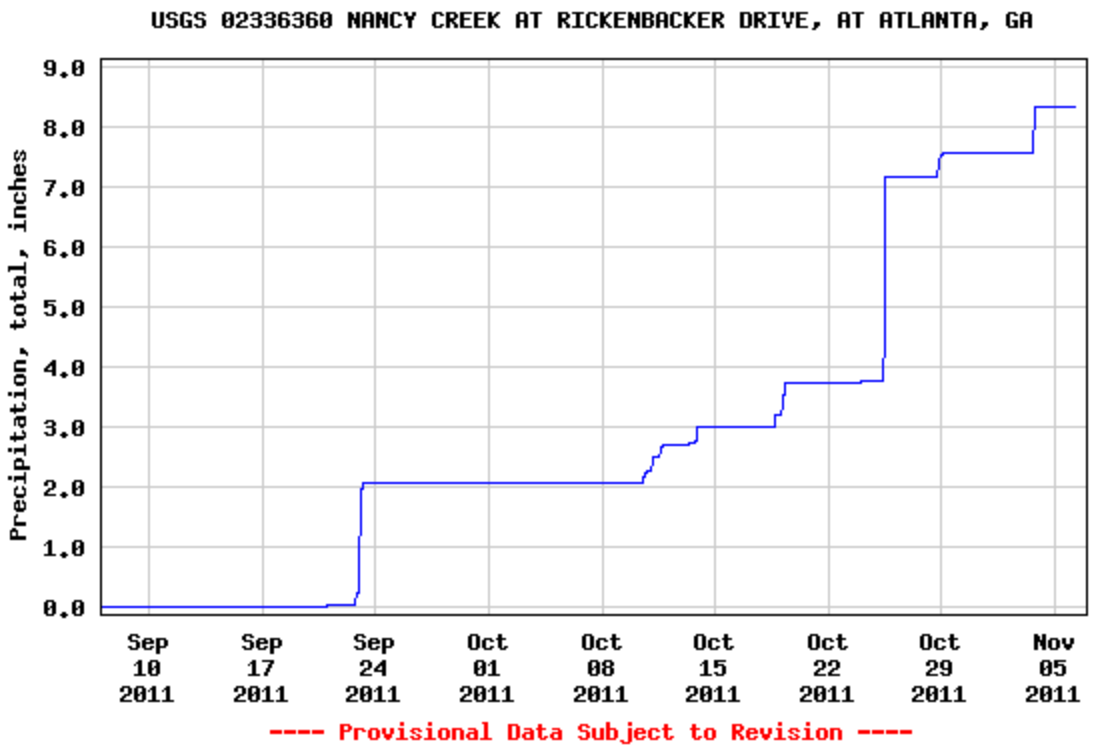
Create presentation-quality / stand-alone graph. Subscribe to WaterAlert

Daily discharge statistics, in cfs, for Nov 6 based on 7 years of record more

Most Recent Instantaneous Value Nov 6	Min (2009)	25th percen-tile	Median	Mean	75th percen-tile	Max (2005)
3.6	3.8	4.0	15	19	32	46

Precipitation, total, inches

Most recent instantaneous value: 0.00 11-06-2011 05:15 EST



Create presentation-quality / stand-alone graph. Subscribe to WaterAlert

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Questions about sites/data?
Feedback on this web site
Automated retrievals
Help

Data Tips
Explanation of terms

News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
Title: USGS Real-Time Water Data for the Nation
URL: http://waterdata.usgs.gov/nwis/uv?

Page Contact Information: Georgia Water Data Support Team
Page Last Modified: 2011-11-06 06:07:18 EST
1.61 0.97 caww02

ATTACHMENT
LABORATORY REPORTS
NANCY CREEK SURFACE WATER SAMPLING
OCTOBER, 2011

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

October 13, 2011

Leonard Diprima
Winter Environmental
3350 Green Pointe Parkway, Suite 200
Norcross GA 30092

TEL: (404) 965-2323
FAX: (404) 223-6251

RE: Fashion Care Stream

Dear Leonard Diprima: Order No: 1110547

Analytical Environmental Services, Inc. received 6 samples on 10/7/2011 5:40:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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

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

Chantelle Kanhai
Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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

AES

CHAIN OF CUSTODY

Work Order: 1110547

Date: 9/15/11 Page: 1 of 1

COMPANY: **Winter Environmental**

ADDRESS: **3350 Green Pointe Parkway Norcross GA 30092**

PHONE: **(404) 965-3348**

FAX: **404-223-6251**

SAMPLED BY: **V Owens**

SIGNATURE:

ANALYSIS REQUESTED: 624 VOCs

PRESERVATION (See Codes)

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See Below)	624 VOCs	REMARKS	No # of Containers
1	FC-100611-SW1	10/6/11	14:10	√		SW	●	GA surface water det limits	2
2	FC-100611-SW2	10/6/11	14:20	√		SW	●	GA surface water det limits	2
3	FC-100611-SW3	10/6/11	14:25	√		SW	●	GA surface water det limits	2
4	FC-100711-SW1	10/7/11	12:15	√		SW	●	GA surface water det limits	2
5	FC-100711-SW2	10/7/11	12:21	√		SW	●	GA surface water det limits	2
6	FC-100711-SW3	10/7/11	12:28	√		SW	●	GA surface water det limits	2
7									
8									
9									
10									
11									
12									
13									
14									12

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1 V Owens	10-7-2011 17:40	1 Mch t	10.7.11 1740
2		2	
3		3	

PROJECT INFORMATION

PROJECT NAME: **Fashion Care Stream**

PROJECT: **Fashion Care**

SITE ADDRESS: **2211 Savoy Drive, Chamblee, GA**

SEND REPORT TO: **LDiprima@winter-environmental.com**

INVOICE TO: **Winter Environmental** (IF DIFFERENT FORM ABOVE)

QUOTE #: _____ PO#: _____

RECEIPT

Total # of Containers

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:
LIMITED ANALYTE LIST - SEE ATTACHED
Method 624 Ga Pollutant List, limited

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

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

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

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100611-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/6/2011 2:10:00 PM
Lab ID:	1110547-001	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	**SW8260B**				**(SW5030B)**			
1,1,1-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
1,1-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
1,1-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 04:28	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
1,2-Dibromoethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
1,2-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
1,2-Dichloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
2-Butanone	BRL	10		ug/L	152772	1	10/12/2011 04:28	JT
2-Hexanone	BRL	10		ug/L	152772	1	10/12/2011 04:28	JT
4-Methyl-2-pentanone	BRL	10		ug/L	152772	1	10/12/2011 04:28	JT
Acetone	22	20		ug/L	152772	1	10/12/2011 04:28	JT
Benzene	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
Bromodichloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
Bromoform	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
Bromomethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
Carbon disulfide	BRL	5.0		ug/L	152772	1	10/12/2011 04:28	JT
Carbon tetrachloride	BRL	2.0		ug/L	152772	1	10/12/2011 04:28	JT
Chlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
Chloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
Chloroform	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
Chloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
Cyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 04:28	JT
Dibromochloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
Ethylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
Freon-113	BRL	5.0		ug/L	152772	1	10/12/2011 04:28	JT
Isopropylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
m,p-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
Methyl acetate	BRL	2.0		ug/L	152772	1	10/12/2011 04:28	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
Methylcyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 04:28	JT
Methylene chloride	BRL	5.0		ug/L	152772	1	10/12/2011 04:28	JT
o-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100611-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/6/2011 2:10:00 PM
Lab ID:	1110547-001	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
Tetrachloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
Toluene	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 04:28	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	152772	1	10/12/2011 04:28	JT
Trichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
Trichlorofluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
Vinyl chloride	BRL	1.0		ug/L	152772	1	10/12/2011 04:28	JT
Surr: 4-Bromofluorobenzene	89.2	64.7-130		%REC	152772	1	10/12/2011 04:28	JT
Surr: Dibromofluoromethane	110	80.7-129		%REC	152772	1	10/12/2011 04:28	JT
Surr: Toluene-d8	97.9	71.1-120		%REC	152772	1	10/12/2011 04:28	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100611-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/6/2011 2:20:00 PM
Lab ID:	1110547-002	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
1,1-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
1,1-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 04:57	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
1,2-Dibromoethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
1,2-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
1,2-Dichloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
2-Butanone	BRL	10		ug/L	152772	1	10/12/2011 04:57	JT
2-Hexanone	BRL	10		ug/L	152772	1	10/12/2011 04:57	JT
4-Methyl-2-pentanone	BRL	10		ug/L	152772	1	10/12/2011 04:57	JT
Acetone	BRL	20		ug/L	152772	1	10/12/2011 04:57	JT
Benzene	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
Bromodichloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
Bromoform	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
Bromomethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
Carbon disulfide	BRL	5.0		ug/L	152772	1	10/12/2011 04:57	JT
Carbon tetrachloride	BRL	2.0		ug/L	152772	1	10/12/2011 04:57	JT
Chlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
Chloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
Chloroform	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
Chloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
Cyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 04:57	JT
Dibromochloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
Ethylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
Freon-113	BRL	5.0		ug/L	152772	1	10/12/2011 04:57	JT
Isopropylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
m,p-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
Methyl acetate	BRL	2.0		ug/L	152772	1	10/12/2011 04:57	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
Methylcyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 04:57	JT
Methylene chloride	BRL	5.0		ug/L	152772	1	10/12/2011 04:57	JT
o-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100611-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/6/2011 2:20:00 PM
Lab ID:	1110547-002	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
Tetrachloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
Toluene	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 04:57	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	152772	1	10/12/2011 04:57	JT
Trichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
Trichlorofluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
Vinyl chloride	BRL	1.0		ug/L	152772	1	10/12/2011 04:57	JT
Surr: 4-Bromofluorobenzene	89	64.7-130		%REC	152772	1	10/12/2011 04:57	JT
Surr: Dibromofluoromethane	115	80.7-129		%REC	152772	1	10/12/2011 04:57	JT
Surr: Toluene-d8	103	71.1-120		%REC	152772	1	10/12/2011 04:57	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100611-SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/6/2011 2:25:00 PM
Lab ID:	1110547-003	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
1,1-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
1,1-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 05:25	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
1,2-Dibromoethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
1,2-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
1,2-Dichloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
2-Butanone	BRL	10		ug/L	152772	1	10/12/2011 05:25	JT
2-Hexanone	BRL	10		ug/L	152772	1	10/12/2011 05:25	JT
4-Methyl-2-pentanone	BRL	10		ug/L	152772	1	10/12/2011 05:25	JT
Acetone	BRL	20		ug/L	152772	1	10/12/2011 05:25	JT
Benzene	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
Bromodichloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
Bromoform	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
Bromomethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
Carbon disulfide	BRL	5.0		ug/L	152772	1	10/12/2011 05:25	JT
Carbon tetrachloride	BRL	2.0		ug/L	152772	1	10/12/2011 05:25	JT
Chlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
Chloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
Chloroform	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
Chloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
Cyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 05:25	JT
Dibromochloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
Ethylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
Freon-113	BRL	5.0		ug/L	152772	1	10/12/2011 05:25	JT
Isopropylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
m,p-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
Methyl acetate	BRL	2.0		ug/L	152772	1	10/12/2011 05:25	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
Methylcyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 05:25	JT
Methylene chloride	BRL	5.0		ug/L	152772	1	10/12/2011 05:25	JT
o-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100611-SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/6/2011 2:25:00 PM
Lab ID:	1110547-003	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
Tetrachloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
Toluene	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 05:25	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	152772	1	10/12/2011 05:25	JT
Trichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
Trichlorofluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
Vinyl chloride	BRL	1.0		ug/L	152772	1	10/12/2011 05:25	JT
Surr: 4-Bromofluorobenzene	86.1	64.7-130		%REC	152772	1	10/12/2011 05:25	JT
Surr: Dibromofluoromethane	111	80.7-129		%REC	152772	1	10/12/2011 05:25	JT
Surr: Toluene-d8	99.8	71.1-120		%REC	152772	1	10/12/2011 05:25	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100711-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/7/2011 12:15:00 PM
Lab ID:	1110547-004	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
1,1-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
1,1-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 05:54	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
1,2-Dibromoethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
1,2-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
1,2-Dichloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
2-Butanone	BRL	10		ug/L	152772	1	10/12/2011 05:54	JT
2-Hexanone	BRL	10		ug/L	152772	1	10/12/2011 05:54	JT
4-Methyl-2-pentanone	BRL	10		ug/L	152772	1	10/12/2011 05:54	JT
Acetone	BRL	20		ug/L	152772	1	10/12/2011 05:54	JT
Benzene	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
Bromodichloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
Bromoform	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
Bromomethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
Carbon disulfide	BRL	5.0		ug/L	152772	1	10/12/2011 05:54	JT
Carbon tetrachloride	BRL	2.0		ug/L	152772	1	10/12/2011 05:54	JT
Chlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
Chloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
Chloroform	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
Chloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
Cyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 05:54	JT
Dibromochloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
Ethylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
Freon-113	BRL	5.0		ug/L	152772	1	10/12/2011 05:54	JT
Isopropylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
m,p-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
Methyl acetate	BRL	2.0		ug/L	152772	1	10/12/2011 05:54	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
Methylcyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 05:54	JT
Methylene chloride	BRL	5.0		ug/L	152772	1	10/12/2011 05:54	JT
o-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100711-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/7/2011 12:15:00 PM
Lab ID:	1110547-004	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
Tetrachloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
Toluene	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 05:54	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	152772	1	10/12/2011 05:54	JT
Trichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
Trichlorofluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
Vinyl chloride	BRL	1.0		ug/L	152772	1	10/12/2011 05:54	JT
Surr: 4-Bromofluorobenzene	85.8	64.7-130		%REC	152772	1	10/12/2011 05:54	JT
Surr: Dibromofluoromethane	111	80.7-129		%REC	152772	1	10/12/2011 05:54	JT
Surr: Toluene-d8	99.1	71.1-120		%REC	152772	1	10/12/2011 05:54	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100711-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/7/2011 12:21:00 PM
Lab ID:	1110547-005	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
1,1-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
1,1-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 06:23	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
1,2-Dibromoethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
1,2-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
1,2-Dichloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
2-Butanone	BRL	10		ug/L	152772	1	10/12/2011 06:23	JT
2-Hexanone	BRL	10		ug/L	152772	1	10/12/2011 06:23	JT
4-Methyl-2-pentanone	BRL	10		ug/L	152772	1	10/12/2011 06:23	JT
Acetone	BRL	20		ug/L	152772	1	10/12/2011 06:23	JT
Benzene	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
Bromodichloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
Bromoform	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
Bromomethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
Carbon disulfide	BRL	5.0		ug/L	152772	1	10/12/2011 06:23	JT
Carbon tetrachloride	BRL	2.0		ug/L	152772	1	10/12/2011 06:23	JT
Chlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
Chloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
Chloroform	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
Chloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
Cyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 06:23	JT
Dibromochloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
Ethylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
Freon-113	BRL	5.0		ug/L	152772	1	10/12/2011 06:23	JT
Isopropylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
m,p-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
Methyl acetate	BRL	2.0		ug/L	152772	1	10/12/2011 06:23	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
Methylcyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 06:23	JT
Methylene chloride	BRL	5.0		ug/L	152772	1	10/12/2011 06:23	JT
o-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100711-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/7/2011 12:21:00 PM
Lab ID:	1110547-005	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
Tetrachloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
Toluene	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 06:23	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	152772	1	10/12/2011 06:23	JT
Trichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
Trichlorofluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
Vinyl chloride	BRL	1.0		ug/L	152772	1	10/12/2011 06:23	JT
Surr: 4-Bromofluorobenzene	85.8	64.7-130		%REC	152772	1	10/12/2011 06:23	JT
Surr: Dibromofluoromethane	113	80.7-129		%REC	152772	1	10/12/2011 06:23	JT
Surr: Toluene-d8	99.7	71.1-120		%REC	152772	1	10/12/2011 06:23	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100711-SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/7/2011 12:28:00 PM
Lab ID:	1110547-006	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
1,1-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
1,1-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 06:52	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
1,2-Dibromoethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
1,2-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
1,2-Dichloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
2-Butanone	BRL	10		ug/L	152772	1	10/12/2011 06:52	JT
2-Hexanone	BRL	10		ug/L	152772	1	10/12/2011 06:52	JT
4-Methyl-2-pentanone	BRL	10		ug/L	152772	1	10/12/2011 06:52	JT
Acetone	BRL	20		ug/L	152772	1	10/12/2011 06:52	JT
Benzene	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
Bromodichloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
Bromoform	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
Bromomethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
Carbon disulfide	BRL	5.0		ug/L	152772	1	10/12/2011 06:52	JT
Carbon tetrachloride	BRL	2.0		ug/L	152772	1	10/12/2011 06:52	JT
Chlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
Chloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
Chloroform	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
Chloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
Cyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 06:52	JT
Dibromochloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
Ethylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
Freon-113	BRL	5.0		ug/L	152772	1	10/12/2011 06:52	JT
Isopropylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
m,p-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
Methyl acetate	BRL	2.0		ug/L	152772	1	10/12/2011 06:52	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
Methylcyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 06:52	JT
Methylene chloride	BRL	5.0		ug/L	152772	1	10/12/2011 06:52	JT
o-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100711-SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/7/2011 12:28:00 PM
Lab ID:	1110547-006	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
Tetrachloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
Toluene	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 06:52	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	152772	1	10/12/2011 06:52	JT
Trichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
Trichlorofluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
Vinyl chloride	BRL	1.0		ug/L	152772	1	10/12/2011 06:52	JT
Surr: 4-Bromofluorobenzene	84.6	64.7-130		%REC	152772	1	10/12/2011 06:52	JT
Surr: Dibromofluoromethane	111	80.7-129		%REC	152772	1	10/12/2011 06:52	JT
Surr: Toluene-d8	101	71.1-120		%REC	152772	1	10/12/2011 06:52	JT

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Winter Env Work Order Number 1110547

Checklist completed by Mal 10/10/11
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

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

Cooler #1 4.5°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110547

ANALYTICAL QC SUMMARY REPORT

BatchID: 152772

Sample ID: **MB-152772** Client ID: Units: **ug/L** Prep Date: **10/12/2011** Run No: **207053**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **152772** Analysis Date: **10/12/2011** Seq No: **4327288**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	2.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	1.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	10	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	20	0	0	0	0	0	0	0	0	
Benzene	BRL	1.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	1.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	1.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	2.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
Chloroform	BRL	1.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	1.0	0	0	0	0	0	0	0	0	

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110547

ANALYTICAL QC SUMMARY REPORT

BatchID: 152772

Sample ID: **MB-152772** Client ID: Units: **ug/L** Prep Date: **10/12/2011** Run No: **207053**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **152772** Analysis Date: **10/12/2011** Seq No: **4327288**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	1.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	1.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	2.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	5.0	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	1.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	2.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	1.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	2.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	1.0	0	0	0	0	0	0	0	0	
Styrene	BRL	1.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	1.0	0	0	0	0	0	0	0	0	
Toluene	BRL	1.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	2.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	2.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	1.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	1.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	44.38	0	50	0	88.8	64.7	130	0	0	0	
Surr: Dibromofluoromethane	55.55	0	50	0	111	80.7	129	0	0	0	
Surr: Toluene-d8	49.94	0	50	0	99.9	71.1	120	0	0	0	

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110547

ANALYTICAL QC SUMMARY REPORT

BatchID: 152772

Sample ID: **LCS-152772** Client ID: Units: **ug/L** Prep Date: **10/12/2011** Run No: **207053**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **152772** Analysis Date: **10/12/2011** Seq No: **4327284**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	44.07	2.0	50	0	88.1	60	140	0	0	0	
Benzene	47.70	1.0	50	0	95.4	70	130	0	0	0	
Chlorobenzene	50.79	1.0	50	0	102	70	130	0	0	0	
Toluene	51.32	1.0	50	0	103	70	130	0	0	0	
Trichloroethene	48.03	1.0	50	0	96.1	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	52.01	0	50	0	104	64.7	130	0	0	0	
Surr: Dibromofluoromethane	55.46	0	50	0	111	80.7	129	0	0	0	
Surr: Toluene-d8	55.77	0	50	0	112	71.1	120	0	0	0	

Sample ID: **1110547-001AMS** Client ID: **FC-100611-SW1** Units: **ug/L** Prep Date: **10/12/2011** Run No: **207053**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **152772** Analysis Date: **10/12/2011** Seq No: **4327467**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	52.15	2.0	50	0	104	46.2	183	0	0	0	
Benzene	53.77	1.0	50	0	108	62.2	143	0	0	0	
Chlorobenzene	52.30	1.0	50	0	105	72.2	137	0	0	0	
Toluene	57.27	1.0	50	0	115	57.8	149	0	0	0	
Trichloroethene	51.11	1.0	50	0	102	70.5	149	0	0	0	
Surr: 4-Bromofluorobenzene	53.15	0	50	0	106	64.7	130	0	0	0	
Surr: Dibromofluoromethane	56.39	0	50	0	113	80.7	129	0	0	0	
Surr: Toluene-d8	56.86	0	50	0	114	71.1	120	0	0	0	

Sample ID: **1110547-001AMSD** Client ID: **FC-100611-SW1** Units: **ug/L** Prep Date: **10/12/2011** Run No: **207053**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **152772** Analysis Date: **10/12/2011** Seq No: **4327558**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	48.29	2.0	50	0	96.6	46.2	183	52.15	7.69	20	
Benzene	51.71	1.0	50	0	103	62.2	143	53.77	3.91	20	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110547

ANALYTICAL QC SUMMARY REPORT

BatchID: 152772

Sample ID: **1110547-001AMSD** Client ID: **FC-100611-SW1** Units: **ug/L** Prep Date: **10/12/2011** Run No: **207053**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **152772** Analysis Date: **10/12/2011** Seq No: **4327558**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	53.04	1.0	50	0	106	72.2	137	52.30	1.4	20	
Toluene	55.82	1.0	50	0	112	57.8	149	57.27	2.56	20	
Trichloroethene	49.42	1.0	50	0	98.8	70.5	149	51.11	3.36	20	
Surr: 4-Bromofluorobenzene	55.50	0	50	0	111	64.7	130	53.15	0	0	
Surr: Dibromofluoromethane	56.99	0	50	0	114	80.7	129	56.39	0	0	
Surr: Toluene-d8	55.97	0	50	0	112	71.1	120	56.86	0	0	

Qualifiers:

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

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

October 13, 2011

Leonard Diprima
Winter Environmental
3350 Green Pointe Parkway, Suite 200
Norcross GA 30092

TEL: (404) 965-2323
FAX: (404) 223-6251

RE: Fashion Care Stream

Dear Leonard Diprima: Order No: 1110685

Analytical Environmental Services, Inc. received 6 samples on 10/10/2011 8:55:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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

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

Chantelle Kanhai
Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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

CHAIN OF CUSTODY

Work Order: 1110685

Date: 10/9/11 Page: 1 of 1

COMPANY: **Winter Environmental**

ADDRESS: **3350 Green Pointe Parkway Norcross GA 30092**

PHONE: **(404) 965-3348**

FAX: **404-223-6251**

SAMPLED BY: **V Owens**

SIGNATURE:

ANALYSIS REQUESTED: 624 VOCs

PRESERVATION (See Codes)

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See Below)	624 VOCs	REMARKS	No # of Containers
1	FC-100811-SW1	10/8/11	13:05	√		SW	●	GA surface water det limits	2
2	FC-100811-SW2	10/8/11	13:00	√		SW	●	GA surface water det limits	2
3	FC-100811-SW3	10/8/11	12:50	√		SW	●	GA surface water det limits	2
4	FC-100911-SW1	10/9/11	17:15	√		SW	●	GA surface water det limits	2
5	FC-100911-SW2	10/9/11	17:10	√		SW	●	GA surface water det limits	2
6	FC-100911-SW3	10/9/11	16:55	√		SW	●	GA surface water det limits	2
7									
8									
9									
10									
11									
12									
13									
14									12

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1 V Owens	10-10-11 08:55	1 [illegible]	10/10/11 8:55
2		2	
3		3	

PROJECT INFORMATION

PROJECT NAME: **Fashion Care Stream**

PROJECT: **Fashion Care**

SITE ADDRESS: **2211 Savoy Drive, Chamblee, GA**

SEND REPORT TO: **LDiprima@winter-environmental.com**

INVOICE TO: **Winter Environmental** (IF DIFFERENT FORM ABOVE)

QUOTE #: _____ PO#: _____

RECEIPT

Total # of Containers

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:
LIMITED ANALYTE LIST - SEE ATTACHED
Method 624 Ga Pollutant List, limited

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

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

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

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100811-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/8/2011 1:05:00 PM
Lab ID:	1110685-001	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	**SW8260B**				**(SW5030B)**			
1,1,1-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
1,1-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
1,1-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 07:20	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
1,2-Dibromoethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
1,2-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
1,2-Dichloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
2-Butanone	BRL	10		ug/L	152772	1	10/12/2011 07:20	JT
2-Hexanone	BRL	10		ug/L	152772	1	10/12/2011 07:20	JT
4-Methyl-2-pentanone	BRL	10		ug/L	152772	1	10/12/2011 07:20	JT
Acetone	BRL	20		ug/L	152772	1	10/12/2011 07:20	JT
Benzene	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
Bromodichloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
Bromoform	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
Bromomethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
Carbon disulfide	BRL	5.0		ug/L	152772	1	10/12/2011 07:20	JT
Carbon tetrachloride	BRL	2.0		ug/L	152772	1	10/12/2011 07:20	JT
Chlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
Chloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
Chloroform	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
Chloromethane	2.0	1.0		ug/L	152772	1	10/12/2011 07:20	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
Cyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 07:20	JT
Dibromochloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
Ethylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
Freon-113	BRL	5.0		ug/L	152772	1	10/12/2011 07:20	JT
Isopropylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
m,p-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
Methyl acetate	BRL	2.0		ug/L	152772	1	10/12/2011 07:20	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
Methylcyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 07:20	JT
Methylene chloride	BRL	5.0		ug/L	152772	1	10/12/2011 07:20	JT
o-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100811-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/8/2011 1:05:00 PM
Lab ID:	1110685-001	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
Tetrachloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
Toluene	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 07:20	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	152772	1	10/12/2011 07:20	JT
Trichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
Trichlorofluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
Vinyl chloride	BRL	1.0		ug/L	152772	1	10/12/2011 07:20	JT
Surr: 4-Bromofluorobenzene	85.7	64.7-130		%REC	152772	1	10/12/2011 07:20	JT
Surr: Dibromofluoromethane	116	80.7-129		%REC	152772	1	10/12/2011 07:20	JT
Surr: Toluene-d8	102	71.1-120		%REC	152772	1	10/12/2011 07:20	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100811-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/8/2011 1:00:00 PM
Lab ID:	1110685-002	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
1,1-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
1,1-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 07:49	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
1,2-Dibromoethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
1,2-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
1,2-Dichloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
2-Butanone	BRL	10		ug/L	152772	1	10/12/2011 07:49	JT
2-Hexanone	BRL	10		ug/L	152772	1	10/12/2011 07:49	JT
4-Methyl-2-pentanone	BRL	10		ug/L	152772	1	10/12/2011 07:49	JT
Acetone	BRL	20		ug/L	152772	1	10/12/2011 07:49	JT
Benzene	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
Bromodichloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
Bromoform	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
Bromomethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
Carbon disulfide	BRL	5.0		ug/L	152772	1	10/12/2011 07:49	JT
Carbon tetrachloride	BRL	2.0		ug/L	152772	1	10/12/2011 07:49	JT
Chlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
Chloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
Chloroform	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
Chloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
Cyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 07:49	JT
Dibromochloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
Ethylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
Freon-113	BRL	5.0		ug/L	152772	1	10/12/2011 07:49	JT
Isopropylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
m,p-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
Methyl acetate	BRL	2.0		ug/L	152772	1	10/12/2011 07:49	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
Methylcyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 07:49	JT
Methylene chloride	BRL	5.0		ug/L	152772	1	10/12/2011 07:49	JT
o-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100811-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/8/2011 1:00:00 PM
Lab ID:	1110685-002	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
Tetrachloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
Toluene	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 07:49	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	152772	1	10/12/2011 07:49	JT
Trichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
Trichlorofluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
Vinyl chloride	BRL	1.0		ug/L	152772	1	10/12/2011 07:49	JT
Surr: 4-Bromofluorobenzene	85.3	64.7-130		%REC	152772	1	10/12/2011 07:49	JT
Surr: Dibromofluoromethane	112	80.7-129		%REC	152772	1	10/12/2011 07:49	JT
Surr: Toluene-d8	99.3	71.1-120		%REC	152772	1	10/12/2011 07:49	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100811-SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/8/2011 12:50:00 PM
Lab ID:	1110685-003	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
1,1-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
1,1-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 08:17	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
1,2-Dibromoethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
1,2-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
1,2-Dichloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
2-Butanone	BRL	10		ug/L	152772	1	10/12/2011 08:17	JT
2-Hexanone	BRL	10		ug/L	152772	1	10/12/2011 08:17	JT
4-Methyl-2-pentanone	BRL	10		ug/L	152772	1	10/12/2011 08:17	JT
Acetone	BRL	20		ug/L	152772	1	10/12/2011 08:17	JT
Benzene	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
Bromodichloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
Bromoform	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
Bromomethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
Carbon disulfide	BRL	5.0		ug/L	152772	1	10/12/2011 08:17	JT
Carbon tetrachloride	BRL	2.0		ug/L	152772	1	10/12/2011 08:17	JT
Chlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
Chloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
Chloroform	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
Chloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
Cyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 08:17	JT
Dibromochloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
Ethylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
Freon-113	BRL	5.0		ug/L	152772	1	10/12/2011 08:17	JT
Isopropylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
m,p-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
Methyl acetate	BRL	2.0		ug/L	152772	1	10/12/2011 08:17	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
Methylcyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 08:17	JT
Methylene chloride	BRL	5.0		ug/L	152772	1	10/12/2011 08:17	JT
o-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100811-SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/8/2011 12:50:00 PM
Lab ID:	1110685-003	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
Tetrachloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
Toluene	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 08:17	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	152772	1	10/12/2011 08:17	JT
Trichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
Trichlorofluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
Vinyl chloride	BRL	1.0		ug/L	152772	1	10/12/2011 08:17	JT
Surr: 4-Bromofluorobenzene	85.4	64.7-130		%REC	152772	1	10/12/2011 08:17	JT
Surr: Dibromofluoromethane	110	80.7-129		%REC	152772	1	10/12/2011 08:17	JT
Surr: Toluene-d8	102	71.1-120		%REC	152772	1	10/12/2011 08:17	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100911-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/9/2011 5:15:00 PM
Lab ID:	1110685-004	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
1,1-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
1,1-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 08:45	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
1,2-Dibromoethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
1,2-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
1,2-Dichloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
2-Butanone	BRL	10		ug/L	152772	1	10/12/2011 08:45	JT
2-Hexanone	BRL	10		ug/L	152772	1	10/12/2011 08:45	JT
4-Methyl-2-pentanone	BRL	10		ug/L	152772	1	10/12/2011 08:45	JT
Acetone	BRL	20		ug/L	152772	1	10/12/2011 08:45	JT
Benzene	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
Bromodichloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
Bromoform	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
Bromomethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
Carbon disulfide	BRL	5.0		ug/L	152772	1	10/12/2011 08:45	JT
Carbon tetrachloride	BRL	2.0		ug/L	152772	1	10/12/2011 08:45	JT
Chlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
Chloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
Chloroform	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
Chloromethane	2.0	1.0		ug/L	152772	1	10/12/2011 08:45	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
Cyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 08:45	JT
Dibromochloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
Ethylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
Freon-113	BRL	5.0		ug/L	152772	1	10/12/2011 08:45	JT
Isopropylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
m,p-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
Methyl acetate	BRL	2.0		ug/L	152772	1	10/12/2011 08:45	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
Methylcyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 08:45	JT
Methylene chloride	BRL	5.0		ug/L	152772	1	10/12/2011 08:45	JT
o-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100911-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/9/2011 5:15:00 PM
Lab ID:	1110685-004	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
Tetrachloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
Toluene	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 08:45	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	152772	1	10/12/2011 08:45	JT
Trichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
Trichlorofluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
Vinyl chloride	BRL	1.0		ug/L	152772	1	10/12/2011 08:45	JT
Surr: 4-Bromofluorobenzene	87.6	64.7-130		%REC	152772	1	10/12/2011 08:45	JT
Surr: Dibromofluoromethane	111	80.7-129		%REC	152772	1	10/12/2011 08:45	JT
Surr: Toluene-d8	104	71.1-120		%REC	152772	1	10/12/2011 08:45	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100911-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/9/2011 5:10:00 PM
Lab ID:	1110685-005	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
1,1-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
1,1-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 09:14	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
1,2-Dibromoethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
1,2-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
1,2-Dichloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
2-Butanone	BRL	10		ug/L	152772	1	10/12/2011 09:14	JT
2-Hexanone	BRL	10		ug/L	152772	1	10/12/2011 09:14	JT
4-Methyl-2-pentanone	BRL	10		ug/L	152772	1	10/12/2011 09:14	JT
Acetone	BRL	20		ug/L	152772	1	10/12/2011 09:14	JT
Benzene	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
Bromodichloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
Bromoform	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
Bromomethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
Carbon disulfide	BRL	5.0		ug/L	152772	1	10/12/2011 09:14	JT
Carbon tetrachloride	BRL	2.0		ug/L	152772	1	10/12/2011 09:14	JT
Chlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
Chloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
Chloroform	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
Chloromethane	1.0	1.0		ug/L	152772	1	10/12/2011 09:14	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
Cyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 09:14	JT
Dibromochloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
Ethylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
Freon-113	BRL	5.0		ug/L	152772	1	10/12/2011 09:14	JT
Isopropylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
m,p-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
Methyl acetate	BRL	2.0		ug/L	152772	1	10/12/2011 09:14	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
Methylcyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 09:14	JT
Methylene chloride	BRL	5.0		ug/L	152772	1	10/12/2011 09:14	JT
o-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100911-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/9/2011 5:10:00 PM
Lab ID:	1110685-005	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
Tetrachloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
Toluene	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 09:14	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	152772	1	10/12/2011 09:14	JT
Trichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
Trichlorofluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
Vinyl chloride	BRL	1.0		ug/L	152772	1	10/12/2011 09:14	JT
Surr: 4-Bromofluorobenzene	84.5	64.7-130		%REC	152772	1	10/12/2011 09:14	JT
Surr: Dibromofluoromethane	113	80.7-129		%REC	152772	1	10/12/2011 09:14	JT
Surr: Toluene-d8	103	71.1-120		%REC	152772	1	10/12/2011 09:14	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100911-SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/9/2011 4:55:00 PM
Lab ID:	1110685-006	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
1,1-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
1,1-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 09:42	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
1,2-Dibromoethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
1,2-Dichloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
1,2-Dichloropropane	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
2-Butanone	BRL	10		ug/L	152772	1	10/12/2011 09:42	JT
2-Hexanone	BRL	10		ug/L	152772	1	10/12/2011 09:42	JT
4-Methyl-2-pentanone	BRL	10		ug/L	152772	1	10/12/2011 09:42	JT
Acetone	BRL	20		ug/L	152772	1	10/12/2011 09:42	JT
Benzene	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
Bromodichloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
Bromoform	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
Bromomethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
Carbon disulfide	BRL	5.0		ug/L	152772	1	10/12/2011 09:42	JT
Carbon tetrachloride	BRL	2.0		ug/L	152772	1	10/12/2011 09:42	JT
Chlorobenzene	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
Chloroethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
Chloroform	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
Chloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
Cyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 09:42	JT
Dibromochloromethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
Ethylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
Freon-113	BRL	5.0		ug/L	152772	1	10/12/2011 09:42	JT
Isopropylbenzene	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
m,p-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
Methyl acetate	BRL	2.0		ug/L	152772	1	10/12/2011 09:42	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
Methylcyclohexane	BRL	2.0		ug/L	152772	1	10/12/2011 09:42	JT
Methylene chloride	BRL	5.0		ug/L	152772	1	10/12/2011 09:42	JT
o-Xylene	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client:	Winter Environmental	**Client Sample ID:**	FC-100911-SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/9/2011 4:55:00 PM
Lab ID:	1110685-006	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
Tetrachloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
Toluene	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	152772	1	10/12/2011 09:42	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	152772	1	10/12/2011 09:42	JT
Trichloroethene	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
Trichlorofluoromethane	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
Vinyl chloride	BRL	1.0		ug/L	152772	1	10/12/2011 09:42	JT
Surr: 4-Bromofluorobenzene	87.5	64.7-130		%REC	152772	1	10/12/2011 09:42	JT
Surr: Dibromofluoromethane	116	80.7-129		%REC	152772	1	10/12/2011 09:42	JT
Surr: Toluene-d8	101	71.1-120		%REC	152772	1	10/12/2011 09:42	JT

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Winter Work Order Number 1110685

Checklist completed by N Dunn 10/10/11
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

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

Cooler #1 4°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Analytical Environmental Services, Inc

Date: 13-Oct-11

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110685

ANALYTICAL QC SUMMARY REPORT

BatchID: 152772

Sample ID: **MB-152772** Client ID: Units: **ug/L** Prep Date: **10/12/2011** Run No: **207053**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **152772** Analysis Date: **10/12/2011** Seq No: **4327288**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	2.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	1.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	10	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	20	0	0	0	0	0	0	0	0	
Benzene	BRL	1.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	1.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	1.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	2.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
Chloroform	BRL	1.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	1.0	0	0	0	0	0	0	0	0	

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110685

ANALYTICAL QC SUMMARY REPORT

BatchID: 152772

Sample ID: **MB-152772** Client ID: Units: **ug/L** Prep Date: **10/12/2011** Run No: **207053**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **152772** Analysis Date: **10/12/2011** Seq No: **4327288**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	1.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	1.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	2.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	5.0	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	1.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	2.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	1.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	2.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	1.0	0	0	0	0	0	0	0	0	
Styrene	BRL	1.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	1.0	0	0	0	0	0	0	0	0	
Toluene	BRL	1.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	2.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	2.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	1.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	1.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	44.38	0	50	0	88.8	64.7	130	0	0	0	
Surr: Dibromofluoromethane	55.55	0	50	0	111	80.7	129	0	0	0	
Surr: Toluene-d8	49.94	0	50	0	99.9	71.1	120	0	0	0	

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110685

ANALYTICAL QC SUMMARY REPORT

BatchID: 152772

Sample ID: **LCS-152772** Client ID: Units: **ug/L** Prep Date: **10/12/2011** Run No: **207053**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **152772** Analysis Date: **10/12/2011** Seq No: **4327284**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	44.07	2.0	50	0	88.1	60	140	0	0	0	
Benzene	47.70	1.0	50	0	95.4	70	130	0	0	0	
Chlorobenzene	50.79	1.0	50	0	102	70	130	0	0	0	
Toluene	51.32	1.0	50	0	103	70	130	0	0	0	
Trichloroethene	48.03	1.0	50	0	96.1	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	52.01	0	50	0	104	64.7	130	0	0	0	
Surr: Dibromofluoromethane	55.46	0	50	0	111	80.7	129	0	0	0	
Surr: Toluene-d8	55.77	0	50	0	112	71.1	120	0	0	0	

Sample ID: **1110547-001AMS** Client ID: Units: **ug/L** Prep Date: **10/12/2011** Run No: **207053**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **152772** Analysis Date: **10/12/2011** Seq No: **4327467**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	52.15	2.0	50	0	104	46.2	183	0	0	0	
Benzene	53.77	1.0	50	0	108	62.2	143	0	0	0	
Chlorobenzene	52.30	1.0	50	0	105	72.2	137	0	0	0	
Toluene	57.27	1.0	50	0	115	57.8	149	0	0	0	
Trichloroethene	51.11	1.0	50	0	102	70.5	149	0	0	0	
Surr: 4-Bromofluorobenzene	53.15	0	50	0	106	64.7	130	0	0	0	
Surr: Dibromofluoromethane	56.39	0	50	0	113	80.7	129	0	0	0	
Surr: Toluene-d8	56.86	0	50	0	114	71.1	120	0	0	0	

Sample ID: **1110547-001AMSD** Client ID: Units: **ug/L** Prep Date: **10/12/2011** Run No: **207053**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **152772** Analysis Date: **10/12/2011** Seq No: **4327558**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	48.29	2.0	50	0	96.6	46.2	183	52.15	7.69	20	
Benzene	51.71	1.0	50	0	103	62.2	143	53.77	3.91	20	

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110685

ANALYTICAL QC SUMMARY REPORT

BatchID: 152772

Sample ID: **1110547-001AMSD** Client ID: Units: **ug/L** Prep Date: **10/12/2011** Run No: **207053**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **152772** Analysis Date: **10/12/2011** Seq No: **4327558**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	53.04	1.0	50	0	106	72.2	137	52.30	1.4	20	
Toluene	55.82	1.0	50	0	112	57.8	149	57.27	2.56	20	
Trichloroethene	49.42	1.0	50	0	98.8	70.5	149	51.11	3.36	20	
Surr: 4-Bromofluorobenzene	55.50	0	50	0	111	64.7	130	53.15	0	0	
Surr: Dibromofluoromethane	56.99	0	50	0	114	80.7	129	56.39	0	0	
Surr: Toluene-d8	55.97	0	50	0	112	71.1	120	56.86	0	0	

Qualifiers:

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

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 01, 2011

Leonard Diprima
Winter Environmental
3350 Green Pointe Parkway, Suite 200
Norcross GA 30092

TEL: (404) 965-2323
FAX: (404) 223-6251

RE: Fashion Care Stream

Dear Leonard Diprima: Order No: 1110H79

Analytical Environmental Services, Inc. received 6 samples on 10/22/2011 12:03:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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

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

Chantelle Kanhai
Project Manager

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

CHAIN OF CUSTODY

Work Order: 1110H79

Date: 10/22/11 Page: 1 of 1

COMPANY: **Winter Environmental**

ADDRESS: **3350 Green Pointe Parkway Norcross GA 30092**

PHONE: **(404) 965-3348**

FAX: **404-223-6251**

SAMPLED BY: **V Owens**

SIGNATURE:

ANALYSIS REQUESTED: TCL VOCs

PRESERVATION (See Codes)

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See Below)	TCL VOCs	REMARKS	No # of Containers
1	FC-102111-SW1	10/21/11	14:40	√		SW	●	GA surface water det limits	2
2	FC-102111-SW2	10/21/11	14:20	√		SW	●	GA surface water det limits	2
3	FC-102111-SW3	10/21/11	14:10	√		SW	●	GA surface water det limits	2
4	FC-102211-SW1	10/22/11	11:15	√		SW	●	GA surface water det limits	2
5	FC-102211-SW2	10/22/11	11:05	√		SW	●	GA surface water det limits	2
6	FC-102211-SW3	10/22/11	10:50	√		SW	●	GA surface water det limits	2
7									
8									
9									
10									
11									
12									
13									
14									12

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1 V Owens	10-22-11 12:03	1 [illegible]	10/22/11 12:03
2		2	
3		3	

PROJECT INFORMATION

PROJECT NAME: **Fashion Care Stream**

PROJECT: **Fashion Care**

SITE ADDRESS: **2211 Savoy Drive, Chamblee, GA**

SEND REPORT TO: **LDiprima@winter-environmental.com**

INVOICE TO: **Winter Environmental** (IF DIFFERENT FORM ABOVE)

QUOTE #: _____ PO#: _____

RECEIPT

Total # of Containers

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:
TCL VOCs at low reporting limits

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

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

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

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102111-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/21/2011 2:40:00 PM
Lab ID:	1110H79-001	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	**SW8260B**				**(SW5030B)**			
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 16:45	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
2-Butanone	BRL	10		ug/L	153446	1	10/27/2011 16:45	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/27/2011 16:45	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/27/2011 16:45	JT
Acetone	21	20		ug/L	153446	1	10/27/2011 16:45	JT
Benzene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/27/2011 16:45	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/27/2011 16:45	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 16:45	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/27/2011 16:45	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/27/2011 16:45	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 16:45	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/27/2011 16:45	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102111-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/21/2011 2:40:00 PM
Lab ID:	1110H79-001	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Toluene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 16:45	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/27/2011 16:45	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Surr: 4-Bromofluorobenzene	88.2	64.7-130		%REC	153446	1	10/27/2011 16:45	JT
Surr: Dibromofluoromethane	92	80.7-129		%REC	153446	1	10/27/2011 16:45	JT
Surr: Toluene-d8	92.6	71.1-120		%REC	153446	1	10/27/2011 16:45	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102111-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/21/2011 2:20:00 PM
Lab ID:	1110H79-002	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 17:42	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
2-Butanone	BRL	10		ug/L	153446	1	10/27/2011 17:42	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/27/2011 17:42	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/27/2011 17:42	JT
Acetone	22	20		ug/L	153446	1	10/27/2011 17:42	JT
Benzene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/27/2011 17:42	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/27/2011 17:42	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 17:42	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/27/2011 17:42	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/27/2011 17:42	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 17:42	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/27/2011 17:42	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102111-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/21/2011 2:20:00 PM
Lab ID:	1110H79-002	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Toluene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 17:42	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/27/2011 17:42	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Surr: 4-Bromofluorobenzene	87.8	64.7-130		%REC	153446	1	10/27/2011 17:42	JT
Surr: Dibromofluoromethane	89.2	80.7-129		%REC	153446	1	10/27/2011 17:42	JT
Surr: Toluene-d8	95	71.1-120		%REC	153446	1	10/27/2011 17:42	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102111- SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/21/2011 2:10:00 PM
Lab ID:	1110H79-003	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 18:11	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
2-Butanone	BRL	10		ug/L	153446	1	10/27/2011 18:11	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/27/2011 18:11	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/27/2011 18:11	JT
Acetone	23	20		ug/L	153446	1	10/27/2011 18:11	JT
Benzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/27/2011 18:11	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/27/2011 18:11	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 18:11	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/27/2011 18:11	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/27/2011 18:11	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 18:11	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/27/2011 18:11	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102111- SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/21/2011 2:10:00 PM
Lab ID:	1110H79-003	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Toluene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 18:11	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/27/2011 18:11	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Surr: 4-Bromofluorobenzene	88.3	64.7-130		%REC	153446	1	10/27/2011 18:11	JT
Surr: Dibromofluoromethane	91.9	80.7-129		%REC	153446	1	10/27/2011 18:11	JT
Surr: Toluene-d8	95.8	71.1-120		%REC	153446	1	10/27/2011 18:11	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102211-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/22/2011 11:15:00 AM
Lab ID:	1110H79-004	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 18:39	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
2-Butanone	BRL	10		ug/L	153446	1	10/27/2011 18:39	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/27/2011 18:39	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/27/2011 18:39	JT
Acetone	34	20		ug/L	153446	1	10/27/2011 18:39	JT
Benzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/27/2011 18:39	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/27/2011 18:39	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 18:39	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/27/2011 18:39	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/27/2011 18:39	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 18:39	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/27/2011 18:39	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102211-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/22/2011 11:15:00 AM
Lab ID:	1110H79-004	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Toluene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 18:39	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/27/2011 18:39	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Surr: 4-Bromofluorobenzene	86.4	64.7-130		%REC	153446	1	10/27/2011 18:39	JT
Surr: Dibromofluoromethane	91.5	80.7-129		%REC	153446	1	10/27/2011 18:39	JT
Surr: Toluene-d8	93	71.1-120		%REC	153446	1	10/27/2011 18:39	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102211-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/22/2011 11:05:00 AM
Lab ID:	1110H79-005	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 19:08	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
2-Butanone	BRL	10		ug/L	153446	1	10/27/2011 19:08	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/27/2011 19:08	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/27/2011 19:08	JT
Acetone	37	20		ug/L	153446	1	10/27/2011 19:08	JT
Benzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/27/2011 19:08	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/27/2011 19:08	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 19:08	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/27/2011 19:08	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/27/2011 19:08	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 19:08	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/27/2011 19:08	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102211-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/22/2011 11:05:00 AM
Lab ID:	1110H79-005	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Toluene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 19:08	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/27/2011 19:08	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Surr: 4-Bromofluorobenzene	90.1	64.7-130		%REC	153446	1	10/27/2011 19:08	JT
Surr: Dibromofluoromethane	92.5	80.7-129		%REC	153446	1	10/27/2011 19:08	JT
Surr: Toluene-d8	95	71.1-120		%REC	153446	1	10/27/2011 19:08	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102211-SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/22/2011 10:50:00 AM
Lab ID:	1110H79-006	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 19:36	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
2-Butanone	BRL	10		ug/L	153446	1	10/27/2011 19:36	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/27/2011 19:36	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/27/2011 19:36	JT
Acetone	31	20		ug/L	153446	1	10/27/2011 19:36	JT
Benzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/27/2011 19:36	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/27/2011 19:36	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 19:36	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/27/2011 19:36	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/27/2011 19:36	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 19:36	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/27/2011 19:36	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102211-SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/22/2011 10:50:00 AM
Lab ID:	1110H79-006	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Toluene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 19:36	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/27/2011 19:36	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Surr: 4-Bromofluorobenzene	85.7	64.7-130		%REC	153446	1	10/27/2011 19:36	JT
Surr: Dibromofluoromethane	91.7	80.7-129		%REC	153446	1	10/27/2011 19:36	JT
Surr: Toluene-d8	91.6	71.1-120		%REC	153446	1	10/27/2011 19:36	JT

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Winter Work Order Number 1110H79

Checklist completed by M. Cobler 10/22/11
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

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

Cooler #1 3.2 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110H79

ANALYTICAL QC SUMMARY REPORT

BatchID: 153446

Sample ID: **MB-153446** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208224**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4353493**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	2.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	1.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	10	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	20	0	0	0	0	0	0	0	0	
Benzene	BRL	1.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	1.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	1.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	2.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
Chloroform	BRL	1.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	1.0	0	0	0	0	0	0	0	0	

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110H79

ANALYTICAL QC SUMMARY REPORT

BatchID: 153446

Sample ID: **MB-153446** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208224**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4353493**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	1.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	1.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	2.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	5.0	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	1.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	2.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	1.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	2.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	1.0	0	0	0	0	0	0	0	0	
Styrene	BRL	1.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	1.0	0	0	0	0	0	0	0	0	
Toluene	BRL	1.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	2.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	2.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	1.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	1.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	43.11	0	50	0	86.2	64.7	130	0	0	0	
Surr: Dibromofluoromethane	52.96	0	50	0	106	80.7	129	0	0	0	
Surr: Toluene-d8	50.42	0	50	0	101	71.1	120	0	0	0	

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110H79

ANALYTICAL QC SUMMARY REPORT

BatchID: 153446

Sample ID: **LCS-153446** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208272**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4354556**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	64.13	2.0	50	0	128	60	140	0	0	0	
Benzene	52.09	1.0	50	0	104	70	130	0	0	0	
Chlorobenzene	51.16	1.0	50	0	102	70	130	0	0	0	
Toluene	52.16	1.0	50	0	104	70	130	0	0	0	
Trichloroethene	50.11	1.0	50	0	100	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	42.46	0	50	0	84.9	64.7	130	0	0	0	
Surr: Dibromofluoromethane	50.18	0	50	0	100	80.7	129	0	0	0	
Surr: Toluene-d8	48.85	0	50	0	97.7	71.1	120	0	0	0	

Sample ID: **1110G81-008AMS** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208224**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4353519**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	68.08	2.0	50	0	136	46.2	183	0	0	0	
Benzene	56.76	1.0	50	0	114	62.2	143	0	0	0	
Chlorobenzene	55.00	1.0	50	0	110	72.2	137	0	0	0	
Toluene	59.24	1.0	50	0	118	57.8	149	0	0	0	
Trichloroethene	54.08	1.0	50	0	108	70.5	149	0	0	0	
Surr: 4-Bromofluorobenzene	45.33	0	50	0	90.7	64.7	130	0	0	0	
Surr: Dibromofluoromethane	53.40	0	50	0	107	80.7	129	0	0	0	
Surr: Toluene-d8	52.66	0	50	0	105	71.1	120	0	0	0	

Sample ID: **1110G81-008AMSD** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208224**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4353520**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	66.76	2.0	50	0	134	46.2	183	68.08	1.96	20	
Benzene	54.97	1.0	50	0	110	62.2	143	56.76	3.2	20	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110H79

ANALYTICAL QC SUMMARY REPORT

BatchID: 153446

Sample ID: **1110G81-008AMSD** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208224**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4353520**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	53.74	1.0	50	0	107	72.2	137	55.00	2.32	20	
Toluene	56.33	1.0	50	0	113	57.8	149	59.24	5.04	20	
Trichloroethene	52.93	1.0	50	0	106	70.5	149	54.08	2.15	20	
Surr: 4-Bromofluorobenzene	45.22	0	50	0	90.4	64.7	130	45.33	0	0	
Surr: Dibromofluoromethane	52.18	0	50	0	104	80.7	129	53.40	0	0	
Surr: Toluene-d8	52.55	0	50	0	105	71.1	120	52.66	0	0	

Qualifiers:

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

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

November 01, 2011

Leonard Diprima
Winter Environmental
3350 Green Pointe Parkway, Suite 200
Norcross GA 30092

TEL: (404) 965-2323
FAX: (404) 223-6251

RE: Fashion Care Stream

Dear Leonard Diprima: Order No: 1110I45

Analytical Environmental Services, Inc. received 6 samples on 10/24/2011 4:22:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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

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

Chantelle Kanhai
Project Manager

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

CHAIN OF CUSTODY

Work Order: 1110I45

Date: **10/24/11** Page: 1 of 1

COMPANY: **Winter Environmental**

ADDRESS: **3350 Green Pointe Parkway Norcross GA 30092**

PHONE: **(404) 965-3348**

FAX: **404-223-6251**

SAMPLED BY: **V Owens**

SIGNATURE:

ANALYSIS REQUESTED: TCL VOCs

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See Below)	TCL VOCs (PRESERVATION (See Codes))	REMARKS	No # of Containers
1	FC-102311-SW1	10/23/11	14:00	√		SW	●	GA surface water det limits	2
2	FC-102311-SW2	10/23/11	13:45	√		SW	●	GA surface water det limits	2
3	FC-102311-SW3	10/23/11	13:30	√		SW	●	GA surface water det limits	2
4	FC-102411-SW1	10/24/11	15:15	√		SW	●	GA surface water det limits	2
5	FC-102411-SW2	10/24/11	15:45	√		SW	●	GA surface water det limits	2
6	FC-102411-SW3	10/24/11	15:55	√		SW	●	GA surface water det limits	2
7									
8									
9									
10									
11									
12									
13									
14									12

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1 V Owens	10/24/11 16:22	1 [illegible]	10/24/11 16:22
2		2	
3		3	

SPECIAL INSTRUCTIONS/COMMENTS:
TCL VOCs at low reporting limits

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

PROJECT INFORMATION
PROJECT NAME: **Fashion Care Stream**
PROJECT: **Fashion Care**
SITE ADDRESS: **2211 Savoy Drive, Chamblee, GA**
SEND REPORT TO: **LDiprima@winter-environmental.com**
INVOICE TO: **Winter Environmental**
(IF DIFFERENT FORM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time Request
● Standard 5 Business Days
○ 2 Business Day Rush
○ Next Business Day Rush
○ Same Day Rush (auth req.)
○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

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

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102311-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/23/2011 2:00:00 PM
Lab ID:	1110I45-001	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/28/2011 17:01	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
2-Butanone	BRL	10		ug/L	153446	1	10/28/2011 17:01	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/28/2011 17:01	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/28/2011 17:01	JT
Acetone	46	20		ug/L	153446	1	10/28/2011 17:01	JT
Benzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/28/2011 17:01	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/28/2011 17:01	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/28/2011 17:01	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/28/2011 17:01	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/28/2011 17:01	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/28/2011 17:01	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/28/2011 17:01	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102311-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/23/2011 2:00:00 PM
Lab ID:	1110I45-001	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Styrene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Toluene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/28/2011 17:01	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/28/2011 17:01	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Surr: 4-Bromofluorobenzene	89.2	64.7-130		%REC	153446	1	10/28/2011 17:01	JT
Surr: Dibromofluoromethane	94	80.7-129		%REC	153446	1	10/28/2011 17:01	JT
Surr: Toluene-d8	95.7	71.1-120		%REC	153446	1	10/28/2011 17:01	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102311-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/23/2011 1:45:00 PM
Lab ID:	1110I45-002	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/28/2011 17:29	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
2-Butanone	BRL	10		ug/L	153446	1	10/28/2011 17:29	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/28/2011 17:29	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/28/2011 17:29	JT
Acetone	40	20		ug/L	153446	1	10/28/2011 17:29	JT
Benzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/28/2011 17:29	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/28/2011 17:29	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/28/2011 17:29	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/28/2011 17:29	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/28/2011 17:29	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/28/2011 17:29	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/28/2011 17:29	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102311-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/23/2011 1:45:00 PM
Lab ID:	1110I45-002	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Toluene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/28/2011 17:29	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/28/2011 17:29	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Surr: 4-Bromofluorobenzene	88.2	64.7-130		%REC	153446	1	10/28/2011 17:29	JT
Surr: Dibromofluoromethane	94	80.7-129		%REC	153446	1	10/28/2011 17:29	JT
Surr: Toluene-d8	93.8	71.1-120		%REC	153446	1	10/28/2011 17:29	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102311-SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/23/2011 1:30:00 PM
Lab ID:	1110I45-003	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 22:52	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
2-Butanone	BRL	10		ug/L	153446	1	10/27/2011 22:52	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/27/2011 22:52	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/27/2011 22:52	JT
Acetone	51	20		ug/L	153446	1	10/27/2011 22:52	JT
Benzene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/27/2011 22:52	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/27/2011 22:52	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 22:52	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/27/2011 22:52	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/27/2011 22:52	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 22:52	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/27/2011 22:52	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102311-SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/23/2011 1:30:00 PM
Lab ID:	1110I45-003	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Toluene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 22:52	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/27/2011 22:52	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Surr: 4-Bromofluorobenzene	83.3	64.7-130		%REC	153446	1	10/27/2011 22:52	JT
Surr: Dibromofluoromethane	108	80.7-129		%REC	153446	1	10/27/2011 22:52	JT
Surr: Toluene-d8	101	71.1-120		%REC	153446	1	10/27/2011 22:52	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102411-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/24/2011 3:15:00 PM
Lab ID:	1110I45-004	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 23:16	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
2-Butanone	BRL	10		ug/L	153446	1	10/27/2011 23:16	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/27/2011 23:16	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/27/2011 23:16	JT
Acetone	190	20		ug/L	153446	1	10/27/2011 23:16	JT
Benzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/27/2011 23:16	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/27/2011 23:16	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 23:16	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/27/2011 23:16	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/27/2011 23:16	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 23:16	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/27/2011 23:16	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102411-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/24/2011 3:15:00 PM
Lab ID:	1110I45-004	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Toluene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 23:16	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/27/2011 23:16	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Surr: 4-Bromofluorobenzene	83.1	64.7-130		%REC	153446	1	10/27/2011 23:16	JT
Surr: Dibromofluoromethane	110	80.7-129		%REC	153446	1	10/27/2011 23:16	JT
Surr: Toluene-d8	98.5	71.1-120		%REC	153446	1	10/27/2011 23:16	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102411-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/24/2011 3:45:00 PM
Lab ID:	1110I45-005	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 23:41	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
2-Butanone	BRL	10		ug/L	153446	1	10/27/2011 23:41	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/27/2011 23:41	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/27/2011 23:41	JT
Acetone	180	20		ug/L	153446	1	10/27/2011 23:41	JT
Benzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/27/2011 23:41	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/27/2011 23:41	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 23:41	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/27/2011 23:41	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/27/2011 23:41	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 23:41	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/27/2011 23:41	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102411-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/24/2011 3:45:00 PM
Lab ID:	1110I45-005	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Toluene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 23:41	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/27/2011 23:41	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Surr: 4-Bromofluorobenzene	83.3	64.7-130		%REC	153446	1	10/27/2011 23:41	JT
Surr: Dibromofluoromethane	108	80.7-129		%REC	153446	1	10/27/2011 23:41	JT
Surr: Toluene-d8	98.7	71.1-120		%REC	153446	1	10/27/2011 23:41	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102411-SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/24/2011 3:55:00 PM
Lab ID:	1110I45-006	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/28/2011 00:05	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
2-Butanone	BRL	10		ug/L	153446	1	10/28/2011 00:05	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/28/2011 00:05	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/28/2011 00:05	JT
Acetone	200	20		ug/L	153446	1	10/28/2011 00:05	JT
Benzene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/28/2011 00:05	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/28/2011 00:05	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/28/2011 00:05	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/28/2011 00:05	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/28/2011 00:05	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/28/2011 00:05	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/28/2011 00:05	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102411-SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/24/2011 3:55:00 PM
Lab ID:	1110I45-006	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Toluene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/28/2011 00:05	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/28/2011 00:05	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Surr: 4-Bromofluorobenzene	84.3	64.7-130		%REC	153446	1	10/28/2011 00:05	JT
Surr: Dibromofluoromethane	111	80.7-129		%REC	153446	1	10/28/2011 00:05	JT
Surr: Toluene-d8	99	71.1-120		%REC	153446	1	10/28/2011 00:05	JT

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Winter Work Order Number 1110145

Checklist completed by [signature] 10/24/11
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

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

Cooler #1 3.2°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110I45

ANALYTICAL QC SUMMARY REPORT

BatchID: 153446

Sample ID: **MB-153446** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208224**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4353493**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	2.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	1.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	10	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	20	0	0	0	0	0	0	0	0	
Benzene	BRL	1.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	1.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	1.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	2.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
Chloroform	BRL	1.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	1.0	0	0	0	0	0	0	0	0	

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110I45

ANALYTICAL QC SUMMARY REPORT

BatchID: 153446

Sample ID: **MB-153446** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208224**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4353493**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	1.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	1.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	2.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	5.0	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	1.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	2.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	1.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	2.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	1.0	0	0	0	0	0	0	0	0	
Styrene	BRL	1.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	1.0	0	0	0	0	0	0	0	0	
Toluene	BRL	1.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	2.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	2.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	1.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	1.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	43.11	0	50	0	86.2	64.7	130	0	0	0	
Surr: Dibromofluoromethane	52.96	0	50	0	106	80.7	129	0	0	0	
Surr: Toluene-d8	50.42	0	50	0	101	71.1	120	0	0	0	

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110I45

ANALYTICAL QC SUMMARY REPORT

BatchID: 153446

Sample ID: **LCS-153446** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208272**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4354556**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	64.13	2.0	50	0	128	60	140	0	0	0	
Benzene	52.09	1.0	50	0	104	70	130	0	0	0	
Chlorobenzene	51.16	1.0	50	0	102	70	130	0	0	0	
Toluene	52.16	1.0	50	0	104	70	130	0	0	0	
Trichloroethene	50.11	1.0	50	0	100	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	42.46	0	50	0	84.9	64.7	130	0	0	0	
Surr: Dibromofluoromethane	50.18	0	50	0	100	80.7	129	0	0	0	
Surr: Toluene-d8	48.85	0	50	0	97.7	71.1	120	0	0	0	

Sample ID: **1110G81-008AMS** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208224**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4353519**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	68.08	2.0	50	0	136	46.2	183	0	0	0	
Benzene	56.76	1.0	50	0	114	62.2	143	0	0	0	
Chlorobenzene	55.00	1.0	50	0	110	72.2	137	0	0	0	
Toluene	59.24	1.0	50	0	118	57.8	149	0	0	0	
Trichloroethene	54.08	1.0	50	0	108	70.5	149	0	0	0	
Surr: 4-Bromofluorobenzene	45.33	0	50	0	90.7	64.7	130	0	0	0	
Surr: Dibromofluoromethane	53.40	0	50	0	107	80.7	129	0	0	0	
Surr: Toluene-d8	52.66	0	50	0	105	71.1	120	0	0	0	

Sample ID: **1110G81-008AMSD** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208224**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4353520**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	66.76	2.0	50	0	134	46.2	183	68.08	1.96	20	
Benzene	54.97	1.0	50	0	110	62.2	143	56.76	3.2	20	

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110I45

ANALYTICAL QC SUMMARY REPORT

BatchID: 153446

Sample ID: **1110G81-008AMSD** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208224**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4353520**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	53.74	1.0	50	0	107	72.2	137	55.00	2.32	20	
Toluene	56.33	1.0	50	0	113	57.8	149	59.24	5.04	20	
Trichloroethene	52.93	1.0	50	0	106	70.5	149	54.08	2.15	20	
Surr: 4-Bromofluorobenzene	45.22	0	50	0	90.4	64.7	130	45.33	0	0	
Surr: Dibromofluoromethane	52.18	0	50	0	104	80.7	129	53.40	0	0	
Surr: Toluene-d8	52.55	0	50	0	105	71.1	120	52.66	0	0	

Qualifiers:

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

Appendix D
Site-specific Utility and Construction Worker Clean-up Standards Derivations

Table 1
Fashion Care/Executive Care Site, Chamblee, GA
Type 5 RRS for Groundwater and Soil: Construction and Utility Workers

Parameter	CAS No.	RRS Type 5 Soil		RRS Type 5 Groundwater	
		Construction Worker (mg/kg)	Utility Worker (mg/kg)	Construction Worker (mg/L)	Utility Worker (mg/L)
VOCs					
Acetone	67-64-1	145,576	1,039,832	84.3	602
2-butanone	78-93-3	43,685	312,037	14.3	102
1,1-Dichloroethane	75-34-3	13,037	3,725	12.7	3.62
1,1-dichloroethene	75-35-4	592	4,229	0.577	4.12
cis-1,2-dichloroethene	156-59-2	3,097	NA	12.8	91.3
trans-1,2-dichloroethene	156-60-5	231	1,648	0.174	1.24
Tetrachloroethylene	127-18-4	214	61.0	0.286	0.082
Trichloroethelene	79-01-06	1,206	345	1.02	0.290
Vinyl Chloride	75-01-4	77.5	27	0.27	0.097

Table 2
Type 5 Risk Reduction Standards for Soil
Fashion Care/Executive Care Site, Chamblee, GA

Parameter		RfD_o (mg/kg-d)	RfD_i (mg/kg-d)	CSF_o $(mg/kg\text{-}d)^{-1}$	CSF_i $(mg/kg\text{-}d)^{-1}$	WOE	Construction Worker Calculated Goal (Nonc)	Construction Worker Calculated Goal (Carc)	Construction Worker Type 5 RRSs	Utility Worker Calculated Goal (Nonc)	Utility Worker Calculated Goal (Carc)	Utility Worker Type 5 RRSs
VOCs												
Acetone	v	9.00E-01	8.90E+00	NA	NA	ND	145,576	NA	145,576	1,039,832	NA	1,039,832
2-butanone	v	6.00E-01	1.43E+00	NA	NA	NA	43,685	NA	43,685.2	312,037	NA	312,037
1,1-Dichloroethane	v	2.00E-01	NA	5.70E-03	5.60E-03	C	61,939	13037.27	13,037.3	442,424	3724.94	3,725
1,1-dichloroethene	v	5.00E-02	5.70E-02	NA	NA	C	592	NA	592.1	4,229	NA	4,229
cis-1,2-dichloroethene	v	1.00E-02	NA	NA	NA	NA	3,097	NA	3,097.0	22,121	NA	NA
trans-1,2-dichloroethene	v	2.00E-02	1.71E-02	NA	NA	NA	231	NA	230.8	1,648	NA	1,648
Tetrachloroethylene	v	1.00E-02	7.70E-02	5.40E-01	2.07E-02	ND	779	213.67	213.7	5,561	61.05	61
Trichloroethylene	v	NA	NA	5.90E-03	7.00E-03	ND	NA	1206.14	1,206.1	NA	344.61	345
Vinyl Chloride	v	3.00E-03	2.85E-02	7.20E-01	1.54E-02	A	78	93.15	77.5	554	26.62	27

WOE = Weight of Evidence

Sourrce: Regional Screening Level (RSL) Chemical-Specific Parameters Supporting Table November 2010. USEPA.

NA = Not available

Noncarcinogens:

$$C = \frac{HI*BW*AT*365\ days/year}{EF*ED*[(1/RfD_o*CF*IR)+(1/RfD_i*IR_a*(1/VF+1/PEF)]}$$

Carcinogens:

$$C = \frac{TR*BW*AT*365\ days/year}{EF*ED*[(CSF_o*IR*CF)+(CSF_i*IR_a*(1/VF+1/PEF)]}$$

where:	Construction Worker		Utility Worker	
HI (Hazard Index)	1		1	Default value; USEPA. 1989 and HSRA Rule
BW = Body Weight (kg), adult	70		70	Default value; USEPA. 1989 and HSRA Rule
AT = Averaging Time (years), (adult/carc)	70		70	Default value; USPA, 1989 and HSRA Rule
AT = Averaging Time (years), (adult/nonc)	1		25	Default values; USEPA, 2002 - construuction worker; USEPA, 1991- utlity worker
EF = Exposure Frequency (days/year)	250		35	Default value for construction workers (USEPA, 2002); Best professional judgment for utility workers
ED = Exposure Duration (years), adult	1		25	Default values; USEPA, 2002 - construuction worker; USEPA, 1991 - utlity worker
RfD_o = Oral Reference Dose	chemical-specific		chemical-specific	
IR = Ingestion Rate (mg/day), adult	330		330	Standard defaul exposure parameters; USEPA, 2002.
TR = Target Risk	1.00E-05	1.00E-04	1.00E-05	USEPA, 1989 and HSRA Rule
CSF_o = Oral Cancer Slope Factor	chemical-specific		chemical-specific	
IR_a = Air Inhalation Rate (m^3/day)(adult)	20		20	Default value; USEPA, 1991
1/PEF = Inv of Particulate Emission Factor (kg/m^3)	2.15983E-10		2.15983E-10	Default Value; USEPA, 1991 and HSRA Rule
CF = Conversion Factor (kg/mg)	1.00E-06		1.00E-06	
1/VF = Volatilization Factor (kg/m^3)	chemical-specific		chemical-specific	
RfD_i = Inhalation Reference Dose	chemical -specific		chemical -specific	
CSF_i = Inhalation Slope Factor	chemical -specific		chemical -specific	

USEPA. 1989. United States Environmental Protection Agency. Risk Assessment Guidance for Superfund, Volume 1 - Human Health Evaluation Manual, Part A. USEPA Publication No. 540/1-89/002.

USEPA. 1991. United States Environmental Protection Agency. Risk Assessment Guidance for Superfund, Volume 1 - Human Health Evaluation Manual (Part B, Development of Risk-based Preliminary Remediation Goals). USEPA Publication No. 9285.7-01 B. October.

USEPA. 2002. United States Environmental Protection Agency. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. OSWER 9355.4-24. December.

Table 3
Type 5 Groundwater Risk Reduction Standards
Fashion Care/Executive Care Site, Chamblee, GA

Parameter	RfDo (mg/kg-d)	RfDi (mg/kg-d)	CSFo (mg/kg-d)-1	CSFi (mg/kg-d)-1	WOE		Calculated Goal (Nonc) Construction Worker (mg/L)	Calculated Goal (Carc) Construction Worker (mg/L)	Type 5 GW RRS Construction Worker (mg/L)	Calculated Goal (Nonc) Utility Worker (mg/L)	Type 5 GW RRS Utility Worker (mg/L)
VOCs											
Acetone	9.00E-01	8.90E+00	NA	NA	ND	v	84.3	NA	84.3	602	602
2-butanone	6.00E-01	1.43E+00	NA	NA	NA	v	14.3	NA	14.3	102	102
1,1-Dichloroethane	2.00E-01	NA	5.70E-03	5.60E-03	C	v	256	12.7	12.7	1,825	3.62
1,1-Dichloroethene	5.00E-02	5.70E-02	NA	NA	C	v	0.577	NA	0.577	4.12	4.12
Cis-1,2-Dichloroethene	1.00E-02	NA	NA	NA	NA	v	12.8	NA	12.8	91.3	91.3
Trans--1,2-Dichloroethene	2.00E-02	1.71E-02	NA	NA	NA	v	0.174	NA	0.174	1.24	1.24
Tetrachloroethylene	1.00E-02	7.70E-02	5.40E-01	2.07E-02	ND	v	0.741	0.286	0.286	5.29	0.082
Trichloroethylene	NA	NA	5.90E-03	7.00E-03	ND	v	NA	1.02	1.02	NA	0.290
Vinyl Chloride	3.00E-03	2.85E-02	7.20E-01	1.54E-02	A	v	0.271	0.338	0.271	1.93	0.097

v= volatile compound
units = mg/L
Sourrce: Regional Secreening Level (RSL) Chemical-Specific Parameters Supporting Table November 2010. USEPA.
NA = Not available
WOE = Weight of evidence

Noncarcinogens:

$$C = \frac{HI*BW*AT*365\ days/year}{EF*ED*[(1/RfD_o*IR_w) + (1/RfD_i*K*IR_a)]}$$

Carcinogens:

$$C = \frac{TR*BW*AT*365\ days/year}{EF*ED*[(CSF_o*IR_w)+(CSFi*K*IRa)]}$$

where:	Construction Worker	Utility Worker		
HI (Hazard Index)	1		1	Default value; USEPA, 1989
BW = Body Weight (kg), adult	70		70	Default value; USEPA, 1989
AT = Averaging Time (years), (adult/carc)	70		70	Default value; USEPA, 1989
AT = Averaging Time (years), (adult/nonc)	1		25	Default values; USEPA, 2002 - construuction worker; USEPA, 1991 utlity worker
EF = Exposure Frequency (days/year)	250		35	Default value for construction workers (USEPA, 2002); Best professional judgment for utility workers
ED = Exposure Duration (years), adult	1		25	Default values; USEPA, 2002 - construuction worker; USEPA, 1991 utlity worker
RfD_o = Oral Reference Dose	Chemical-specific	Chemical-specific		
IRw = Ingestion Rate of Water (L/day), adult	0.08		0.08	USEPA, 1989 value for swimming (50 ml/hr) adjusted based on best professional judgment ; see below (a)
K = Volatilization Factor (unitless)	0.5		0.5	Default value; USEPA, 1991
IRa = Air Inhalation Rate (m3/day)(adult)	20		20	USEPA, 1991
TR = Target Risk (unitles)	1.00E-05	1.00E-04	1.00E-05	HSRA Rule

USEPA. 1989. United States Environmental Protection Agency. Risk Assessment Guidance for Superfund, Volume 1 - Human Health Evaluation Manual, Part A. USEPA Publication No. 540/1-89/002.
USEPA. 1991. United States Environmental Protection Agency. Risk Assessment Guidance for Superfund, Volume 1 - Human Health Evaluation Manual (Part B, Development of Risk-based Preliminary Remediation Goals). USEPA Publication No. 9285.7-01 B. October.
USEPA. 2002. United States Environmental Protection Agency. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. OSWER 9355.4-24. December.

(a) USEPA 1989 ingestion rate for swimming modified asuming that ingestion of groundwater during construction or utility maintenance is lower (assumed 5 times lower), thus 0.01 L/hr was used. Assuming 8 hour/day exposure (i.e., 0.01 L/day * 8 hr/day = 0.08 L/day).

Table 4
Soil-to-Air Volatilization Factor
Fashion Care/Executive Care Site, Chamblee, GA

Parameter		Di (cm^2/sec)	H' unitless	HLC (atm-m^3/mol)	Koc (cm^3/g)	VF (m^3/kg)
VOCs						
Acetone	v	1.059E-01	1.431E-03	3.500E-05	2.364E+00	6.70E+03
2-butanone	v	9.144E-02	2.326E-03	5.690E-05	4.510E+00	7.82E+03
1,1-Dichloroethane	v	8.364E-02	2.298E-01	5.620E-03	3.182E+01	2.11E+03
1,1-Dichloroethene	v	8.364E-02	2.298E-01	5.620E-03	3.182E+01	2.11E+03
cis-1,2-dichloroethene	v	7.360E-02	1.670E-01	4.073E-03	3.550E+01	2.83E+03
trans-1,2-dichloroethene	v	8.761E-02	1.668E-01	4.080E-03	3.960E+01	2.74E+03
Tetrachloroethylene	v	5.047E-02	7.236E-01	1.770E-02	9.494E+01	2.64E+03
Trichloroethylene	v	6.866E-02	4.027E-01	9.850E-03	6.070E+01	2.44E+03
Vinyl Chloride	v	1.071E-01	1.137E+00	2.780E-02	2.173E+01	5.81E+02

Sourrce: Regional Screening Level (RSL) Chemical-Specific Parameters Supporting Table November 2010. USEPA.

Derivation Of VF Values (Soil-to-Air Volatilization Factor):

$$VF(m^3/kg) = \frac{(LS \times V \times DH)}{A} \times \frac{(p \times a \times T)^{1/2}}{(2 \times D_{ei} \times E \times K_{as} \times 10^{-3}\ kg/g)}$$

where:

LS = length of side of contaminated area (m):	45
V = wind speed in mixing zone (m/s):	2.25
DH = diffusion height (m):	2
A = area of contamination (cm^2)	2.03E+07
p = pi:	3.14159265
a = (cm^2/s):	$(D_{ei} \times E)/(E + (rs \times ((1-E)/K_{as})))$
T = exposure interval (s), industrial:	7.88E+08
r_s = density of soil solids (g/cm^3):	2.65
OC = soil organic carbon content fraction (unitless):	0.02
D_{ei} = effective diffusivity (cm^2/s):	$D_i \times E^{0.33}$
D_i = molecular diffusivity (cm^2/s):	chemical-specific
E = total soil porosity (unitless):	0.35
K_{as} = soil/air partition coefficient (g soil/cm^3 air):	$(H/K_d) \times 41$
H = Henry's law constant (atm-m^3/mol):	chemical-specific
K_d = soil-water partition coefficient (cm^3/g):	$K_{oc} \times OC$
K_{oc} = organic carbon partition coefficient (cm^3/g):	chemical-specific

m = meter
s = second
cm = centimeter
g = gram =
atm-m3/mol = atmospheres-cubic meters per mole

March 29, 2012

Mr. Jason Metzger
Unit Coordinator – Environmental Engineer
Georgia Environmental Protection Division
Hazardous Sites Response Program/Voluntary Remediation Program
2 Martin Luther King, Jr. Drive, SE
Atlanta, GA 30334

Subject: Response to EPD Comments dated February 22, 2012 regarding Voluntary Remediation Program Reports submitted through December 2, 2011:
VRP Site, Fashion Care/Executive Care, HSI No. 10786, 2211 Savoy Drive, Chamblee, DeKalb County, Georgia

Dear Mr. Metzger:

On behalf of the John F. Rowan, Sr. Item IV Trust (Trust), Winter Environmental has addressed, and attached for your review, a number of the comments to the Voluntary Remediation Program (VRP) Reports submitted through December 2, 2011 regarding the Fashion Care/Executive Care VRP Site (HSI No. 10786, 2211 Savoy Drive, Chamblee, DeKalb County, Georgia). The following comments have been addressed and should replace previous versions of the documents provided in the VRP Semiannual Status Report dated December 2, 2012.

Comment #1. The draft Uniform Environmental Covenants (UEC's) have been revised per comments received from the EPD on February 10, 2012. The revised UEC's are attached for your review. These covenants should replace the associated covenants in Appendix B of the VRP Semiannual Status Report dated December 2, 2012.

Comment #5. The Johnson & Ettinger (J&E) vapor models for parcel 18-343-13-001 (Georgia-Alabama Commercial Investments, LLC property) and 18-343-13-005 (Southern Automatic Company property) have been revised per your comments. The results indicate that both properties are below the Hazardous Site Response Act (HSRA) Rules threshold values. The revised models are attached for your review. These revised J&E vapor models should replace the J&E models in Appendix A of the VRP Semiannual Status Report dated December 2, 2012.

Comment #6. The summary tables and input parameters for the J&E models for parcels 18-343-13-001 and 18-343-13-005 have been revised and are attached for your review.

Comment #7. The Type 5 Risk Reduction Standards (RRS) for construction workers and utility workers have been revised in the attached UEC's, as have been the RRS derivation tables. There are very small differences in our calculations for tetrachloroethene and 1,1-dichloroethene that

3350 Green Pointe Parkway
Suite 200
Norcross, Georgia 30092
Main: 404.588.3300
Fax: 404.223.6251
www.winter-environmental.com
A division of
The Winter Construction Company

appear to be due to Excel rounding that could not be resolved. We have defaulted to the values for these constituents provided by EPD. The revised RRS derivation tables are attached for your review. These revised RRS should replace the RRS tables in Appendix D of the VRP Semiannual Status Report dated December 2, 2012.

Comment #8. The Type 5 RRS for 1,1-dichloroethene has been revised in the RRS derivation tables. The revised RRS derivation tables are attached for your review.

Comment #9. The chemical specific input parameters for 1,1-dichloroethene and cis-1,2-dichloroethene have been revised in the RRS derivation tables. The revised RRS derivation tables are attached for your review.

Also noted are Comments #2, #3 and #4 that will be addressed in future site investigation activities and Semiannual VRP Status Reports.

In addition to the responses provided by the Trust, the Trust requests that the EPD provide a property specific "Site Use and Non-Residential Soil RRS Monitoring Evaluation Form" for each Environmental Covenant presented for this site. This is needed prior to presenting the covenants for signature to the affected property owners.

Winter Environmental and the Trust await your review and reply to these items. The Trust would like to obtain executed UEC's from the surrounding property owners as soon as possible to continue to move forward with the VRP. Please contact me with any questions or comments you may have.

Sincerely,

Leonard J. Diprima, Jr., P.G.
Senior Consultant

Cc: John F. Rowan, Sr. Item IV Trust, C/o Catherine Norris

WINTER ENVIRONMENTAL

Revised Draft Uniform Environmental Covenants

- Parcel 18-333-02-023 (ASL Limited Partnership property)
- Parcel 18-343-13-002 (The Trust of John F. Rowan, Sr. (Fashion Care) property)
- Parcel 18-343-13-005 (Southern Automatic Company property)

WINTER ENVIRONMENTAL

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE
Suite 1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor:	ASL Limited Partnership 1515 S. Federal Hwy. 300 Boca Raton, FL 33432-7451
Grantee/Holder:	<Company Name or individual(s)> <Mailing address>
Grantee/Entity with express power to enforce:	State of Georgia Department of Natural Resources Environmental Protection Division 2 Martin Luther King Jr. Drive, SE Suite 1152 East Tower Atlanta, GA 30334
Parties with interest in the Property:	<Company Name or individual(s)> <Mailing address>

Property:

The property subject to this Environmental Covenant is the ASL Limited Partnership Tract (hereinafter "Property"), located on the 4200 – 4300 Block of North Shallowford Road, in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on October 12, 1982 from ARA Associates – Shangri-La, Ltd., a New Jersey limited partnership to ASL Limited Partnership recorded in Deed Book 4673, Page 272, DeKalb County Records. The area is located in Land Lot 334 of the 18th District of DeKalb County, Georgia. The property consists of approximately 10.45 acres of undeveloped property. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-333-02-023 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in

the following documents:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.
- Vapor Intrusion Model - Response to EPD Comments dated February 22, 2012 regarding Voluntary Remediation Program Reports submitted through December 2, 2011: VRP Site, Fashion Care/Executive Care, HSI No. 10786, 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, dated March 14, 2012.

This document is available at the following location:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Add Property Address here, or Owner Contact Information if undeveloped.

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act and the Georgia VRP.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by ASL Limited Partnership, its successors and assigns, <name of Grantee/Holder>, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the adjacent property; 2211 Savoy Drive, Chamblee Georgia. PCE, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene and vinyl chloride have been detected in groundwater beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated there under (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The institutional controls consist of no use of groundwater on the Property, and utility and construction worker protection requirements regarding impacted groundwater in Area D as shown on Figure 1 of the Property. Engineering controls required for the Property are the implementation and maintenance of vapor mitigation measures beneath any existing enclosed structures and any enclosed structures constructed within Area C and Area D as shown on Figure 1, unless updated vapor modeling approved by the EPD indicates vapor mitigation is unnecessary.. These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Grantor, ASL Limited Partnership (hereinafter "ASL"), hereby binds Grantor, its successors and assigns to the activity and use restrictions for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the <name of Holder> and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq*., and the

rules promulgated there under. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from exercising any authority under applicable law.

ASL makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of <name of Holder>, EPD, ASL and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, <name of Holder> or its successors and assigns, ASL or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, or to apply for building permit(s). The EPD must be notified within 3 business days of any subsurface site work in the environmentally impacted area shown on Figure 1 that would affect the Property. These notifications shall include a certification that the requirements of this covenant were adhered to.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant. The notice shall explicitly state the requirements of Activities 5-7 to ensure worker protection and proper handling of impacted media.

4. Periodic Reporting. Annually, beginning no later than 12 months following the effective date of this Environmental Covenant, the Owner shall submit to EPD a completed Site Use, Activity and Monitoring Evaluation Form (attached).

5. Activity and Use Limitation(s). The Property shall be used for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant, unless the requirements for residential use identified below are followed.

   A vapor mitigation system or barrier shall be installed and maintained with the construction of any enclosed structures within Areas C and D indicated on attached Figure 1 until the HSRA regulated substances in groundwater at the Property reach HSRA RRS, or if vapor modeling of groundwater contamination indicates that a vapor mitigation is not required for enclosed structures and EPD concurs

with the vapor modeling results.

Residential use of the Property requires:

- Vapor mitigation measures approved by EPD installed on enclosed structures placed within Area C and Area D as shown on Figure 1; or
- Vapor modeling of groundwater contamination within Area C and Area D as shown on Figure 1 indicating that a vapor mitigation is not required for enclosed structures and EPD concurs with the vapor modeling results; and
- Groundwater use is prohibited, unless EPD concurs that groundwater is remediated to residential RRS.

6. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless COI are treated to below HSRA residential risk reduction standards.

   Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

7. Utility Worker & Construction Worker Protection. Levels of PCE have been identified in groundwater above 0.286 mg/L and 0.082 mg/L, the calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and utility workers, respectively. The area(s) with concentrations above Type 5 RRS levels is identified as Area D on Figure 1. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade. Prior to conducting construction or subsurface utility work that may result in exposure to groundwater in the designated area, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted groundwater performed in the execution of work should be done in accordance with Item 6 above.

   The exposure duration assumed for a utility worker was 35 days per year, for a period of 25 years. The exposure duration assumed for a construction worker was 250 days a year, for a period of no more than one year. Therefore, utility worker exposure in the areas that meet Type 5 RRS, but exceed Type 1-4 RRS, should not exceed 35 days per year for 25 years, and for construction workers should not to exceed 250 days in a year. If on site works in the areas designated above are to be exceeded, then the procedures outlined above must be followed to eliminate the work exposure pathway.

8. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

9. Right of Access. In addition to any rights already possessed by EPD and/or the <name of Holder>, the Owner shall allow authorized representatives of EPD and/or <name of Holder> the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental

Covenant, and to inspect records that are related to the Corrective Action.

10. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) <name of Holder>, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

11. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

12. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

13. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 10 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1154 East Tower
Atlanta, GA 30334

ASL Limited Partnership
1515 S. Federal Hwy. 300
Boca Raton, FL 33432-7451

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

ASL Limited Partnership

_____
[Name of Signatory]
[Title]

Dated: _____

<NAME OF HOLDER>

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

Exhibit A
Legal Description

All that tract or parcel of land lying and being in Land Lots 333 and 334 of the 18th District of DeKalb County, Georgia, and being more particularly described as follows:

Starting at an iron pin at the intersection of the North line of Land Lot 334 and the Nortwesterly side of North Peachtree Road (70 foot right-of-way), running thence South 15 degrees 26 minutes West along the Northwest side of North Peachtree Road, 117.62 feet; thence South 24 degrees 59 minutes West along siad right-of-way, 97.22 feet to a point; thence South 32 degrees 49 minutes West along said right-of-way, 97.52 feet to a point; thence running South 40 degrees 46 minutes West along said right-of-way, 97.55 feet to a point; running thence South 48 minutes 24 minutes West along said right-of-way 82.79 feet to a point; thence North 48 degrees 29 minutes West 157.2 feet to a point in Nancy Creek; thence North 88 degrees 44 minutes 30 seconds West 435.3 feet to a point; thence North 1 degree 15 minutes 30 seconds West 78 feet to a point in Nancy Creek; thence North 70 degrees 5 minutes 30 seconds West 80.10 feet to a point in Nancy Creek; thence South 62 degrees 24 minutes 30- seconds West 73.50 feet to a point in Nancy Creek; thence north 66 degrees 25 minutes 30 seconds West 158.30 feet to a point in Nancy Creek; thence North 78 degrees 16 minutes West 585.0 feet to a point in Nancy Creek; thence South 70 degrees 55 minutes West 138.50 feet to a point in Nancy Creek; thence South 34 degrees 5 minutes West 118.40 feet to a point in Nancy Creek; thence South 28 degrees 55 minutes East 35.0 feet to a point; thence South 61 degrees 5 minutes West 194.4 feet to a point on the Easterly right-of-way of North Shallowford Road, said road being an 80 foot right-of-way; thence North 29 degrees 30 minutes West 98.54 feet to a point; thence North 25 degrees 59 minutes 30 seconds West 255.67 feet to a point; thence South 89 degrees 49 minutes East 2175.67 feet to a point on the Northwesterly side of North Peachtree Road and the point of beginning.

Less and except all that tract or parcel of land lying and being in Land Lot 334 of the 18th District, DeKalb County, Georgia, conveyed from ASL Limited Partnership to Carlton G. Chapman on December 23, 1988, recorded in Deed Book 5689 page 052, DeKalb County Records, and being more particularly described as follows:

TO FIND THE TRUE POINT OF BEGINNING, commence at an iron pin set at the intersection of the north line of Land Lot 334 and the northwesterly right-of-way of North Peachtree Road; running thence south 15 degrees 12 minutes 04 seconds west along said right-of-way a distance of 116.74 feet to an iron pin set; running thence south 24 degrees 38 minutes 05 seconds west a distance of 60.00 feet to an iron pin set and the TRUE POINT OF BEGINNING; from the TRUE POINT OF BEGINNING run thence along the northwesterly right-of-way of North Peachtree Road, south 24 degrees 38 minutes 05 seconds west a distance of 37.22 feet to an iron pin set; thence continuing along said right-of-way south 32 degrees 28 minutes 05 seconds west a distance of 978.52 feet to a point; running thence south 40 degrees 03 minutes 05 seconds west a distance of 82.79 feet to an iron pin set; running thence north 48 degrees 49 minutes 55 seconds west a distance of 157.20 feet to an iron pin set; running thence north 00 degrees 07 minutes 01 seconds west a distance of 141.34 feet to an iron pin set; running thence north 89 degrees 50 minutes 05 seconds east a distance of 311.32 feet to an iron pin set and the TRUE POINT OF BEGINNING. Said tract containing 1.151 acres as shown by plat of survey for Carl Chapman, prepared by Quadra-Tech, Inc., dated December 12, 1986, being certified by Wallace Long Hambrick, Georgia Registered Land Surveyor No. 1375.

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE
Suite 1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor: The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
P.O. Box 82
Rancho Santa Fe, CA 92067

Grantee/Holder: <Company Name or individual(s)>
<Mailing address>

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1152 East Tower
Atlanta, GA 30334

Parties with interest in the Property: <Company Name or individual(s)>
<Mailing address>

Property:

The property subject to this Environmental Covenant is the Fashion Care/Executive Care Tract (hereinafter "Property"), located at 2211 Savoy Drive in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on November 7, 2003 from Business Associates, Inc., a Georgia Corporation to John F. Rowan recorded in Deed Book 15562, Page 660, DeKalb County Records. The area is located in Land Lot 343 of the 18th District of DeKalb County, Georgia. The property consists of approximately 0.61 acres of property developed with a single, one-story building that contains a drycleaner on the west side and a restaurant on the east side. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-343-13-002 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document[s]:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.
- Point of Compliance Monitoring Plan (as referenced in Activity 4)

These documents are available at the following locations:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Fashion Care Cleaners
2211 Savoy Drive
Chamblee, GA

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act and the Georgia VRP.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by the Trust of John F. Rowan, Sr., its successors and assigns, <name of Grantee/Holder>, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the Property. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene, vinyl chloride and 1,1-dichloroethene have been detected in groundwater beneath the Property. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene and vinyl chloride have been detected in soil beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The institutional controls consist of no use of groundwater on the Property, and utility and construction worker protection requirements regarding impacted soil in Area B on Figure 1, and groundwater in Area D on Figure 1 of the Property. Engineering controls required for the Property are the maintenance of existing concrete and asphalt covering soil impacted with regulated chemicals in Area A on Figure 1, the implementation and maintenance of vapor mitigation measures beneath any existing enclosed structures on the Property and any enclosed structures constructed on the Property within the areas indicated on attached Figure 1 (Area A) and Figure 2 (Area C). These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Grantor, the Trust of John F. Rowan, Sr. (hereinafter "Trust"), hereby binds Grantor, its successors and assigns to the activity and use restriction(s) for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the <name of Holder> and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq*., and the rules promulgated thereunder. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from exercising any authority under applicable law.

The Trust makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of <name of Holder>, EPD, Trust and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, <name of Holder> or its successors and assigns, the Trust or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, or to apply for building permit(s). The EPD must be notified within 3 business days following any subsurface site work in the environmentally impacted areas shown on Figures 1 and 2. These notifications shall include a certification that the requirements of this covenant were adhered to.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant. The notice shall explicitly state the requirements of Activities 5-8 to ensure worker protection and proper handling of impacted media.

4. Periodic Reporting. Annually, beginning no later than 12 months following the effective date of this Environmental Covenant, the Owner shall submit to EPD a completed Site Use, Activity and Monitoring Evaluation Form (attached). In addition, an Annual Point of Compliance Monitoring Report. as specified in the EPD approved Point of Compliance Monitoring Plan, must be submitted to the EPD until point of compliance monitoring is deemed unnecessary by the EPD in accordance with the specifications set forth in the Point of Compliance Monitoring Plan.

5. Activity and Use Limitation(s). The Property shall be used only for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any residential use of the Property shall be prohibited unless EPD concurs that soil and groundwater are remediated to residential RRS. A vapor mitigation system or barrier shall be installed and maintained on existing structures and on any additional enclosed structures

constructed until the HSRA regulated substances in soil and groundwater at the Property reach HSRA RRS, or vapor modeling of groundwater and soil contamination in the respective areas defined on Figure 1 and 2 indicate that vapor mitigation is not required for enclosed structures and EPD concurs with the vapor modeling results.

6. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless HSRA regulated substances are treated to below HSRA residential RRS for groundwater.

   Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

7. Soil Limitation. The concrete and asphalt covering Area A in Figure 1 as having regulated substances at concentrations greater than HSRA non-residential RRS, must be maintained and shall only be breached in accordance with the restrictions herein. Should intrusive activities within this area be required, the extracted, impacted soil should be managed in accordance with all applicable local, state and federal rules and regulations governing the management of such material. Removed soil in this area should not be placed back into the excavation, but be properly characterized for disposal in accordance with 40 CFR Part 261(specifically 40 CFR Parts 261.20-24, regarding characteristic waste) and transported and disposed of at an appropriate disposal facility. The excavation should be backfilled with clean fill material and recapped with an impervious surface. Recapping of the area of excavation would not be necessary if all the impacted soil in the excavation area is removed to below applicable HSRA residential RRS to the water table for the regulated chemicals of concern noted in the "Description of Contamination and Corrective Action" above.

8. Utility Worker & Construction Worker Protection. HSRA regulated chemicals have been identified in soil and groundwater above calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and/or utility workers. The following regulated chemicals have been identified in soil above calculated risk-based threshold levels for the protection of construction workers and/or utility workers as indicated. The area with soil concentrations above these levels is identified as Area B on Figure 1, attached.

Soil - HSRA Type 5 RRS for the Protection of Construction Workers and/or Utility Workers			
HSRA regulated chemical	Construction Worker Threshold Concentration (mg/kg)	Utility Worker Threshold Concentration (mg/kg)	Comments
PCE	142	1015	

The following regulated chemicals have been identified in groundwater above calculated risk-based threshold levels for the protection of construction workers and/or utility workers as indicated. The area with groundwater concentrations above Type 5 RRS is identified as Area D on attached Figure 2. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade.

Groundwater - HSRA Type 5 RRS for the Protection of Construction Workers and/or Utility Workers			
HSRA regulated chemical	Construction Worker Threshold Concentration (mg/L)	Utility Worker Threshold Concentration (mg/L)	Comments
PCE	0.12	0.82	
Trichloroethene	0.006	0.041	
Cis-1,2-dichloroethene	2.6	18.0	This chemical was identified above the construction worker threshold only.
Trans-1,1-dichloroethene	0.174	1.24	
Vinyl chloride	0.27	0.097	

Prior to conducting construction or subsurface utility work that may result in exposure to soil or groundwater in the designated Type 5 areas, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted soil or groundwater performed in the execution of work should be done in accordance with Items 7 and 6 above, respectively.

The exposure duration assumed for a utility worker was 35 days per year, for a period of 25 years. The exposure duration assumed for a construction worker was 250 days a year, for a period of no more than one year. Therefore, uitility worker exposure in the areas that meet Type 5 RRS, but exceed Type 1-4 RRS, should not exceed 35 days per year for 25 years, and for construction workers should not to exceed 250 days in a year. If on site works in the areas designated above are to be exceeded, then the procedures outlined above must be followed to eliminated the work exposure pathway.

9. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

10. Right of Access. In addition to any rights already possessed by EPD and/or the <name of Holder>, the Owner shall allow authorized representatives of EPD and/or <name of Holder> the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

11. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) <name of Holder>, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

12. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

13. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

14. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 10 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1154 East Tower
Atlanta, GA 30334

The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
P.O. Box 197
Carmel, CA 93924

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

The Trust of John F. Rowan, Sr.

_____
[Name of Signatory]
[Title]

Dated: _____

<NAME OF HOLDER>

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

Exhibit A
Legal Description

All that tract or parcel of land lying and being in Land Lot 343 of the 18th District of DeKalb County, Georgia and being more particularly described as follows: Beginning at an iron pin on the westerly line of the right of way of North Peachtree Road (which line is 35 feet westerly from the center line of said road) and on the line dividing Land Lots 343 and 334; and running thence along said Land Lot line South, 89 degrees 53 minutes West, 213 feet to an iron pin; thence North 22 degrees 15 minutes West, 158.85 feet to an iron pin; thence North 15 degrees 11 minutes East, 120 feet to an iron pin on the southerly line of the right of way of I-285; thence South 74 degrees 49 minutes East along the southerly right of way of I-285, 100 feet to an iron pin; thence South 15 degrees 11 minutes West, 990 feet to an iron pin; thence South 23 degrees 25 minutes 30 seconds East, 111.6 feet to an iron pin; thence South 60 degrees 44 minutes East, 60 feet to an iron pin; thence North 89 degrees 53 minutes East, 75 feet to an iron pin on the westerly right of way of North Peachtree Road; thence along said right of way South 9 degrees 17 minutes 30 seconds West, 18 feet to the POINT OF BEGINNING. According to a Plat by Earnest L. Boggus dated June 14, 1968, revised April 10, 1969, revised May 8, 1970. Subject to covenants, easements and restrictions of record and to utility easements.

This is the same property conveyed by Business Associates, Inc. to CJH Capital Corporation by Warranty Deed dated September 21, 1987, recorded in Deed Book 5954, page 189, Clerk's Office, DeKalb County Superior Court.

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE Suite
1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor: Southern Automatic Company
4420 Tree Haven Drive, N.E.
Atlanta, Georgia 30342-3426

Grantee/Holder: <Company Name or individual(s)>
<Mailing address>

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1152 East Tower
Atlanta, GA 30334

Parties with interest in the Property: <Company Name or individual(s)>
<Mailing address>

Property:

The property subject to this Environmental Covenant is the Southern Automatic Company N. Peachtree Tract (hereinafter "Property"), located at 4306 N. Peachtree Road, in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on November 25, 1974 from Hoke A. Rowan, Jr. to Southern Automatic Company recorded in Deed Book 3267, Page 130, DeKalb County Records. The area is located in Land Lot 343 of the 18th District of DeKalb County, Georgia. The property consists of approximately 0.51 acres of property developed at the time of this covenant with a single, one-story building that contains a dentist office, a beauty shop, and other retail stores. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-343-13-005 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.
- Vapor Intrusion Model - Response to EPD Comments dated February 22, 2012 regarding Voluntary Remediation Program Reports submitted through December 2, 2011: VRP Site, Fashion Care/Executive Care, HSI No. 10786, 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, dated March 14, 2012.

This document is available at the following location:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Add Property Address here, or Owner Contact Information if undeveloped.

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act and the Georgia VRP.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by Southern Automatic Company, its successors and assigns, <name of Grantee/Holder>, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the adjacent property; 2211 Savoy Drive, Chamblee Georgia. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene, vinyl chloride and 1,1-dichloroethene have been detected in groundwater beneath the Property. PCE, trichloroethene and cis-1,2-dichloroethene have been detected in soil beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated there under (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The institutional controls consist of no use of groundwater on the Property, and utility and construction worker protection requirements regarding impacted groundwater in designated area of the property. Engineering controls required for the Property are:

- The maintenance of existing concrete and asphalt covering soil impacted with regulated chemicals in Area A of Figure 1, and
- The implementation and maintenance of vapor mitigation measures beneath any enclosed structures constructed on the Property within Area C on attached Figure 2, unless updated vapor modeling approved by the EPD indicates vapor mitigation is unnecessary.

These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Grantor, Southern Automatic Company (hereinafter "Southern Automatic"), hereby binds Grantor, its successors and assigns to the activity and use restrictions for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the <name of Holder> and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq*., and the rules promulgated there under. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from exercising any authority under applicable law.

Southern Automatic makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of <name of Holder>, EPD, Southern Automatic and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, <name of Holder> or its successors and assigns, Southern Automatic or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activityand/orUseLimitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, or to apply for building permit(s). The EPD must be notified within 3 business days following any subsurface site work in the environmentally impacted areas shown on Figures 1 and 2. These notifications shall include a certification that the requirements of this covenant were adhered to.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant. . The notice shall explicitly state the requirements of Activities 5-7 to ensure worker protection and proper handling of impacted media.

4. Periodic Reporting. Annually, beginning no later than 12 months following the effective date of this Environmental Covenant, the Owner shall submit to EPD a completed Site Use, Activity and Monitoring Evaluation Form (attached).

1. Activity and Use Limitation(s). The Property shall be used for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant, unless the requirements identified below are followed for residential use. Non-residential use requires:
   - A vapor mitigation system or barrier be installed and maintained with the construction of any enclosed structures within the impacted soil Area A as indicated on attached Figure 1 and impacted groundwater Area C as indicated on Figure 2, until the HSRA regulated substances in soil and groundwater at the Property reach non-residential HSRA RRS,; or
   - Vapor modeling of groundwater and/or soil contamination in the respective areas defined on Figure 1 and 2 indicate that a vapor mitigation is not required for enclosed structures and EPD concurs with the vapor modeling results; and
   - Groundwater use is prohibited (unless EPD concurs that groundwater is remediated to residential RRS).

Residential use of the Property requires:

- A vapor mitigation system or barrier be installed and maintained with the construction of any enclosed structures within the impacted groundwater Area C as indicated on Figure 2, until the HSRA regulated substances in groundwater at the Property reach non-residential HSRA RRS; or
- Vapor modeling of groundwater contamination indicates that a vapor mitigation is not required for enclosed structures in this area and EPD concurs with the vapor modeling results,; and
- No residential structures should be constructed over the impacted soil Area A as indicated on attached Figure 1 and the requirements defined in Section 6 (Soil Limitations) below must be adhered to, unless the soil is remediated to residential standards in this area; and
- Groundwater use is prohibited, unless EPD concurs that groundwater is remediated to residential RRS.

5. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless HSRA regulated substances are treated to below HSRA residential RRS for groundwater.

   Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

6. Soil Limitation. The concrete and asphalt covering the area designated as Area A in Figure 1 as having regulated substances at concentrations greater than HSRA non-residential RRS, must be maintained and shall only be breached in accordance with the restrictions herein. Should intrusive activities within the area designated in Figure 1 as having regulated substances at concentrations greater than HSRA non-residential RRS be required, the extracted, impacted soil should be managed in accordance with all applicable local, state and federal rules and regulations governing the management of such material. Removed soil in this area should not be placed back into the excavation, but be properly characterized for disposal in accordance with 40 CFR Part 261(specifically 40 CFR Parts 261.20-24, regarding characteristic waste) and transported and disposed of at an appropriate disposal facility. The excavation should be backfilled with clean fill material and recapped with an impervious surface. Recapping of the area of excavation would not be necessary if all the impacted soil in the excavation area is removed to below applicable HSRA residential RRS to the water table for the regulated chemicals of concern noted in the "Description of Contamination and Corrective Action" above.

7. Utility Worker & Construction Worker Protection. Levels of the following HSRA regulated chemicals have been identified in groundwater above calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and/or utility workers as indicated:

HSRA regulated chemical	Construction Worker Threshold Concentration (mg/L)	Utility Worker Threshold Concentration (mg/L)	Comments
PCE	0.12	0.82	
Trichloroethene	0.006	0.041	
Cis-1,2-dichloroethene	2.6	18.0	This chemical was identified above the construction worker threshold only.

The area(s) with concentrations above Type 5 RRS levels is identified as Area D on attached Figure 2. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade. Prior to conducting construction or subsurface utility work that may result in exposure to groundwater in the designated area, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted groundwater performed in the execution of work should be done in accordance with Item 5 above.

The exposure duration assumed for utility worker was 35 days per year, for a period of 25 years. The exposure duration assumed for a construction worker was 250 days a year, for a period of no more than one year. Therefore, utility worker exposure in the areas that meet Type 5 RRS, but exceed Type 1-4 RRS, should not exceed 35 days per year for 25 years, and for construction workers should not to exceed 250 days in one year. If on site works in the areas designated above are to be exceeded, then the procedures outlined above must be followed to eliminate the work exposure pathway.

8. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

9. Right of Access. In addition to any rights already possessed by EPD and/or the <name of Holder>, the Owner shall allow authorized representatives of EPD and/or <name of Holder> the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

10. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) <name of Holder>, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

11. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

12. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any

respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

13. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

RepresentationsandWarranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 11 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1154 East Tower
Atlanta, GA 30334

Southern Automatic Company
4420 Tree Haven Drive, N.E.
Atlanta, Georgia 30342-3426

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____day of _____, 20____.

Southern Automatic Company

_____

[Name of Signatory]
[Title]

Dated: _____

<NAMEOFHOLDER>

_____

[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

_____

[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____day of _____, 20 __, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____day of _____, 20 __, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF _____
COUNTY OF _____

On this _____day of _____, 20 __, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

Exhibit A Legal
Description

Beginning at an iron pin on the south line of Land Lot 343, said point being south 89 degrees 53 minutes west 213.00 feet from the westerly right of way of North Peachtree Road, (70' R/W), thence south 89 degrees 53 minutes west 225.00 feet along the south line of Land Lot 343 to an iron pin, thence north 0 degrees 7 minutes west 316.8 feet to an iron pin on the southerly right of way of I-285, thence south 74 degrees 49 minutes east along the southerly right of way of I-285, 203.9 feet to an iron pin, thence south 15 degrees 11 minutes west 120.0 feet to a masonry nail, thence south 22 degrees 15 minutes east to the south line of Land Lot 343 and the point of beginning.

Revised Johnson & Ettinger Vapor Models

- Parcel 18-343-13-001 (Georgia-Alabama Commercial Investments, LLC property)
- Parcel 18-343-13-005 (Southern Automatic Company property)

WINTER ENVIRONMENTAL

INTRODUCTION

This technical summary describes a vapor intrusion analysis of volatile organic compound (VOC) plumes originating from the Fashion Care Dry Cleaner site located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia (HSI 10786), and from the release of gasoline from the gas station located on Georgia-Alabama Commercial Investments, LLC property. The Johnson & Ettinger transport model (J&E), release 3.1, obtained from the EPA download page and updated with the November 2011 Regional Screen Level Table (RSLT), was used to estimate the incremental cancer risk and Hazard Quotient from VOCs in groundwater at the Georgia-Alabama Commercial Investments, LLC property (EZ-Serve Gas Station), Tax Parcel 18-343-13-001. Table E-1 summarizes the J&E model inputs and cumulative incremental risk results for the EZ-Serve Gas Station resulting from vapor intrusion from groundwater impacts. For reference, both the J&E Model and RSLT can be obtained from the USEPA[1,2]. The following discussion is obtained directly from the J&E User's Guide:

This revised version of the User's Guide corresponds with the release of Version 3.1 of the Johnson and Ettinger (1991) model (J&E) spreadsheets for estimating subsurface vapor intrusion into buildings. Several things have changed within the models since Version 2 was released in December 2000 and since the original version was released in September 1998. The following represent the major changes in Version 3.1 to be consistent with Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Quality from Groundwater and Soils dated November 25, 2002.

The J&E Model is a one-dimensional analytical solution to convective and diffusive vapor transport into indoor spaces and provides an estimated attenuation coefficient that relates the vapor concentration in the indoor space to the vapor concentration at the source of contamination. The model is constructed as both a steady-state solution to vapor transport (infinite or non-diminishing source) and as a quasi-steady-state solution (finite or diminishing source). Inputs to the model include chemical properties of the contaminant, saturated and unsaturated zone soil properties, and structural properties of the building.

This manual provides documentation and instructions for using the vapor intrusion model as provided in the accompanying spreadsheets.

Model results (both screening and advanced) are provided as either a risk-based soil or groundwater concentration, or as an estimate of the actual incremental risks associated with a user-defined initial concentration. That is to say that the model will reverse-calculate an "acceptable" soil or groundwater concentration given a user-defined risk level (i.e., target risk level or target hazard quotient), or the model may be used to forward-calculate an incremental cancer risk or hazard quotient based on an initial soil or groundwater concentration.

USER INPUTS

Limited input from the user is allowed in the screening version of the J&E model. User model inputs for the EZ-Serve Gas Station vapor intrusion analysis summarized in Table E-1 are discussed in the following:

> **Groundwater Concentration (EZ-Serve Gas Station):** Shallow groundwater water concentration data obtained in March, 2010, was evaluated as the basis for estimating representative VOC concentrations in groundwater beneath the EZ-Serve Gas Station property. VOC concentrations

[1] http://www.epa.gov/oswer/riskassessment/airmodel/johnson_ettinger.htm
[2] http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/pdf/resair_sl_table_run_NOV2011.pdf

from monitoring wells FMW-1 and MW-11 were averaged in order to provide a representative groundwater concentration scenario for this location. Several monitoring wells surrounding the EZ-Serve Gas Station have or had free product (petroleum) and did not provide representative (or any) chlorinated compound data. Results of individual VOC constituent risk used to determine the cumulative incremental cancer and Hazard Quotient risk for the EZ-Serve Gas Station are shown in Table E-2.

Soil Profile SCS Classifications: As shown in Table E-1, soil boring FMW-1 was used to obtain the depth to groundwater, the soil characterization at the groundwater interface (Silty Clay) and the vadose zone lithology (Sand). These data have some of the largest influence on model results for the GW-SCREEN module used for this analysis.

Model Defaults: Default values for air exchange, slab thickness, air entry rate, and other structure variables were used. Although site specific building structure data could be used, the results from the modeling would likely not change significantly due to the model assumptions for human exposure and associated pathways of exposure. This is due to the inherent "exposure per unit volume" composition of the model. More advanced modeling would require a significant amount of structure measurement, including estimates of floor crack area, actual air exchange rates for this specific dry cleaner, and pressure differentials between inside and outside the building.

RESULTS AND CONCLUSION

Modeling of VOC vapor intrusion was conducted for EZ-Serve Gas Station property using the standardized Johnson & Ettinger convection/diffusion model Vesion 3.1 (2004), and updated with the November 2011 RSLT. The groundwater VOC concentrations utilized summarized in Tables E-2.

The conclusion for the EZ-Serve Gas Station property vapor intrusion analysis is that the incremental cancer risk, as calculated using very conservative model input assumptions, is below the HSRA standard of one-per-hundred thousand, and the calculated Hazard Quotient is below the threshold of one (1.0).

Model limitations are a significant factor in drawing conclusions from this analysis.

MODEL LIMITATION

The simplified Johnson & Ettinger one-dimensional convection and diffusion model used in the calculations is useful for screening under ideal conditions using site specific data. The Fashion Care site does not offer ideal conditions and exhibits the potential for significant variability in key simulation data inputs. Alternative site specific data inputs and assumptions could also be used to generate much different results. The conceptual model upon which this analysis was conducted may require revision in the future in order to improve the vapor intrusion predicative capability.

Tables
Model Input and Output

Table E-1
Input Parameters - Vapor Intrusion Modeling
GA-AL Commercial Investments Property
Johnson-Ettinger Groundwater Scenario
February 2011

Parameter	Symbol	Units	Value	Comment
User Input (Groundwater Screening Model Version 3.1, 2004)				
Gas Station GW Constituents	Cw	ug/L		See Table E-2 (FMW1 & MW-11)
Woded Lot GW Constituents	Cw	ug/L		See Table E-3 (FMW5, FMW6, FMW11, MW14)
Slab Thickness	L_F	cm	15	Only 15 or 200 Allowed In Model - 15 Used
Depth to Water	L_{WT}	cm	549	Soil Boring Log FMW-1
Average Media Temperature	T_S	^oC	19.4	Soil and Groundwater Annual Average Temp
Average Vapor Intrusion Rate	Q_{soil}	L/min	NA	Calculated by Model
Model Inputs Used for Variable Calculations or Assumptions				
Soil Type At Water Table	SCS	n/a	SIC	Silty Clay - Soil Boring Log FMW-1
Soil Type In Vadose Zone	SCS	n/a	S	Sand - Soil Boring Log FMW-1
Soil Constantes Per SCS Code	Automatic Paramerter Lookup Function			Tabulated in VLOOKUP Sheet of Model
Vadose Zone Vapor Permeability	K_V	cm^2		Model Calculation Used
Target Risk (Carcinogens)	TR	n/a	1.0E-05	HSRA based allowable
Target Hazard Quotient (Non-Cancer)	THQ	n/a	1.0	Allowable Hazard Quotient for RfC
Averaging Time - Carcinogens	AT_C	yrs	70	EPA Recommended Per Model Guidance
Averaging Time - Noncarcinogens	AT_{NC}	yrs	30	EPA Recommended Per Model Guidance
Exposure Duration	ED	yr	30	EPA Recommended Per Model Guidance
Exposure Frequency	EF	days/yr	350	EPA Recommended Per Model Guidance

EZ-Serve Gas Station (Tax Parcel 18-343-13-001)		
Cummulative Risk - Hazard Quotient	1.1E-01	CummulativeToxicity All Detected VOCs
Cummulative Risk - Cancer	5.5E-06	Cummulative Cancer All Detected VOCs

Revised February 2012

Table E-2
Model Results - Vapor Intrusion Modeling
GA-AL Commercial Investments Property
Johnson-Ettinger Groundwater Scenario

Groundwater Constituents	FMW-1	MW-11	Average	CAS No.	RISK FACTOR	
	(mg/L)	(mg/L)	(mg/L)	(VLOOKUP)	Cancer	Hazard
Trichloroethene	0.0034	0.016	0.0097	79016	2.9E-08	1.5E-02
Tetrachloroethene	0.006	0.026	0.016	127184	7.8E-09	1.7E-03
cis-1,2 Dichlorothene	0.024	0.021	0.0225	156592	NA	1.1E-03
trans-1,2 Dichlorethene	0.0025	0.0011	0.0018	156605	NA	8.7E-05
Vinyl Chloride	0.001	0.001	0.001	75014	1.9E-08	1.0E-04
Benzene	1.2	0.047	0.62	71432	4.5E-06	4.5E-02
Toluene	3.4	0.0058	1.70	108883	NA	9.7E-03
Ethylebenzene	0.6	0.017	0.31	100414	7.4E-07	6.9E-04
total-Xylenes (as P-)	2.34	0.0084	1.17	106423	NA	2.6E-02
Methylcyclohexane	0.068	0.0012	0.035	108872	NA	2.7E-04
Isopropyl Benzene	0.027	0.001	0.014	98828	NA	1.0E-04
MTBE	3.2	0.0041	1.60	1634044	1.7E-07	5.0E-04
Cyclohexane (as Hexane)	0.1	0.0025	0.051	110827	NA	8.6E-03
Cummulative Risk					**5.5E-06**	**1.1E-01**

Notes:

1) Unit risk factor (URF) and Reference Concentration (RfC) updated based on November 2011 RSLT.
2) Values in yellow are 1/2 the reporting limit.
3) N/A for Cancer Risk Factor indicates compound does not have an IUR value in the RSLT.
4) FMW-1 sampled 3/8/2010. MW-11 sampled 3/11/2010.

Revised February 2012

Table E-1
Input Parameters - Vapor Intrusion Modeling
GA-AL Commercial Investments Property
Johnson-Ettinger Groundwater Scenario
February 2011

Parameter	Symbol	Units	Value	Comment
User Input (Groundwater Screening Model Version 3.1, 2004)				
Gas Station GW Constituents	Cw	ug/L		See Table E-2 (FMW1 & MW-11)
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Slab Thickness	L_F	cm	15	Only 15 or 200 Allowed In Model - 15 Used
Depth to Water	L_{WT}	cm	549	Soil Boring Log FMW-1
Average Media Temperature	T_S	^oC	19.4	Soil and Groundwater Annual Average Temp
Average Vapor Intrusion Rate	Q_{soil}	L/min	NA	Calculated by Model
Model Inputs Used for Variable Calculations or Assumptions				
Soil Type At Water Table	SCS	n/a	SIC	Silty Clay - Soil Boring Log FMW-1
Soil Type In Vadose Zone	SCS	n/a	S	Sand - Soil Boring Log FMW-1
Soil Constantes Per SCS Code	Automatic Paramerter Lookup Function			Tabulated in VLOOKUP Sheet of Model
Vadose Zone Vapor Permeability	K_V	cm^2		Model Calculation Used
Target Risk (Carcinogens)	TR	n/a	1.0E-05	HSRA based allowable
Target Hazard Quotient (Non-Cancer)	THQ	n/a	1.0	Allowable Hazard Quotient for RfC
Averaging Time - Carcinogens	AT_C	yrs	70	EPA Recommended Per Model Guidance
Averaging Time - Noncarcinogens	AT_{NC}	yrs	30	EPA Recommended Per Model Guidance
Exposure Duration	ED	yr	30	EPA Recommended Per Model Guidance
Exposure Frequency	EF	days/yr	350	EPA Recommended Per Model Guidance

EZ-Serve Gas Station (Tax Parcel 18-343-13-001)		
Cummulative Risk - Hazard Quotient	1.1E-01	CummulativeToxicity All Detected VOCs
Cummulative Risk - Cancer	5.5E-06	Cummulative Cancer All Detected VOCs

Revised February 2012

Table E-2
Model Results - Vapor Intrusion Modeling
GA-AL Commercial Investments Property
Johnson-Ettinger Groundwater Scenario

Groundwater Constituents	FMW-1	MW-11	Average	CAS No.	RISK FACTOR	
	(mg/L)	(mg/L)	(mg/L)	(VLOOKUP)	Cancer	Hazard
Trichloroethene	0.0034	0.016	0.0097	79016	2.9E-08	1.5E-02
Tetrachloroethene	0.006	0.026	0.016	127184	7.8E-09	1.7E-03
cis-1,2 Dichlorothene	0.024	0.021	0.0225	156592	NA	1.1E-03
trans-1,2 Dichlorethene	0.0025	0.0011	0.0018	156605	NA	8.7E-05
Vinyl Chloride	0.001	0.001	0.001	75014	1.9E-08	1.0E-04
Benzene	1.2	0.047	0.62	71432	4.5E-06	4.5E-02
Toluene	3.4	0.0058	1.70	108883	NA	9.7E-03
Ethylebenzene	0.6	0.017	0.31	100414	7.4E-07	6.9E-04
total-Xylenes (as P-)	2.34	0.0084	1.17	106423	NA	2.6E-02
Methylcyclohexane	0.068	0.0012	0.035	108872	NA	2.7E-04
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MTBE	3.2	0.0041	1.60	1634044	1.7E-07	5.0E-04
Cyclohexane (as Hexane)	0.1	0.0025	0.051	110827	NA	8.6E-03
Cummulative Risk					**5.5E-06**	**1.1E-01**

Notes:

1) Unit risk factor (URF) and Reference Concentration (RfC) updated based on November 2011 RSLT.
2) Values in yellow are 1/2 the reporting limit.
3) N/A for Cancer Risk Factor indicates compound does not have an IUR value in the RSLT.
4) FMW-1 sampled 3/8/2010. MW-11 sampled 3/11/2010.

Revised February 2012

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W ($\mu g/L$)	Chemical
71432	6.20E+02	Benzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
8.80E-02	9.80E-06	5.54E-03	25	7,342	353.24	562.16	5.89E+01	1.79E+03	7.8E-06	3.0E-02

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	8,025	4.27E-03	1.78E-01	1.78E-04	1.83E-02	4.16E-05	1.15E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	1.10E+05	0.10	9.96E+01	1.83E-02	4.00E+02	1.01E+59	1.27E-05	1.40E+00	7.8E-06	3.0E-02

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.79E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
4.5E-06	4.5E-02

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (μg/L)	Chemical
156592	2.25E+01	cis-1,2-Dichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.36E-02	1.13E-05	4.07E-03	25	7,192	333.65	544.00	3.55E+01	3.50E+03	0.0E+00	3.5E-02

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	7,639	3.18E-03	1.32E-01	1.78E-04	1.53E-02	4.45E-05	1.23E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	2.98E+03	0.10	9.96E+01	1.53E-02	4.00E+02	3.55E+70	1.36E-05	4.04E-02	NA	3.5E-02

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	3.50E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	1.1E-03

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

Cyclohexane modeled as Hexane using RfC for Cyclohexane

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (μg/L)	Chemical
110543	5.10E+01	Hexane

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
2.00E-01	7.77E-06	1.66E+00	25	6,895	341.70	508.00	4.34E+01	1.24E+01	0.0E+00	6.0E+00

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	7,612	1.30E+00	5.42E+01	1.78E-04	4.16E-02	6.35E-05	1.76E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	2.76E+06	0.10	9.96E+01	4.16E-02	4.00E+02	9.17E+25	1.94E-05	5.35E+01	NA	6.0E+00

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.24E+04	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	8.6E-03

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (μg/L)	Chemical
100414	3.10E+02	Ethylbenzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.50E-02	7.80E-06	7.86E-03	25	8,501	409.34	617.20	3.63E+02	1.69E+02	2.5E-06	1.0E+00

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	10,047	5.68E-03	2.37E-01	1.78E-04	1.56E-02	3.20E-05	8.85E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	7.34E+04	0.10	9.96E+01	1.56E-02	4.00E+02	1.71E+69	9.76E-06	7.16E-01	2.5E-06	1.0E+00

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.69E+05	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
7.4E-07	6.9E-04

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (μg/L)	Chemical
98828	1.40E+01	Cumene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
6.50E-02	7.10E-06	1.46E-02	25	10,335	425.56	631.10	4.89E+02	6.13E+01	0.0E+00	4.0E-01

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	12,512	9.75E-03	4.06E-01	1.78E-04	1.35E-02	2.50E-05	6.91E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	5.68E+03	0.10	9.96E+01	1.35E-02	4.00E+02	7.67E+79	7.63E-06	4.33E-02	NA	4.0E-01

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	6.13E+04	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	1.0E-04

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (μg/L)	Chemical
108872	3.50E+01	Methylcyclohexane

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350
Used to calculate risk-based groundwater concentration.					

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.35E-02	8.52E-06	1.03E-01	25	7,474	373.90	572.20	7.85E+01	1.40E+01	0.0E+00	3.0E+00

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	8,480	7.82E-02	3.26E+00	1.78E-04	1.53E-02	2.40E-05	6.64E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	1.14E+05	0.10	9.96E+01	1.53E-02	4.00E+02	4.43E+70	7.33E-06	8.36E-01	NA	3.0E+00

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.40E+04	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	2.7E-04

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (μg/L)	Chemical
1634044	1.60E+03	MTBE

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
1.02E-01	1.05E-05	6.23E-04	25	6,678	328.30	497.10	7.26E+00	5.10E+04	2.6E-07	3.0E+00

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	7,173	4.94E-04	2.06E-02	1.78E-04	2.13E-02	1.59E-04	4.35E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	3.30E+04	0.10	9.96E+01	2.13E-02	4.00E+02	5.10E+50	4.77E-05	1.57E+00	2.6E-07	3.0E+00

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	5.10E+07	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
1.7E-07	5.0E-04

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W ($\mu g/L$)	Chemical
127184	1.60E+01	Tetrachloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.20E-02	8.20E-06	1.84E-02	25	8.288	394.40	620.20	1.55E+02	2.00E+02	2.6E-07	4.0E-02

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	9,458	1.35E-02	5.63E-01	1.78E-04	1.50E-02	2.65E-05	7.33E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	9.01E+03	0.10	9.96E+01	1.50E-02	4.00E+02	1.31E+72	8.09E-06	7.29E-02	2.6E-07	4.0E-02

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	2.00E+05	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
7.8E-09	1.7E-03

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W ($\mu g/L$)	Chemical
79016	9.70E+00	Trichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.90E-02	9.10E-06	1.03E-02	25	7,505	360.36	544.20	1.66E+02	1.47E+03	2.3E-06	2.0E-03

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	8,440	7.82E-03	3.26E-01	1.78E-04	1.64E-02	3.20E-05	8.85E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	3.16E+03	0.10	9.96E+01	1.64E-02	4.00E+02	5.34E+65	9.77E-06	3.09E-02	2.3E-06	2.0E-03

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.47E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
2.9E-08	1.5E-02

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based groundwater concentration is based on a route-to-route extrapolation.

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (μg/L)	Chemical
108883	1.70E+03	Toluene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
8.70E-02	8.60E-06	6.62E-03	25	7,930	383.78	591.79	1.82E+02	5.26E+02	0.0E+00	4.0E-01

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	9,052	4.94E-03	2.06E-01	1.78E-04	1.81E-02	3.80E-05	1.05E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	3.50E+05	0.10	9.96E+01	1.81E-02	4.00E+02	4.83E+59	1.16E-05	4.06E+00	NA	4.0E-01

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	5.26E+05	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	9.7E-03

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (μg/L)	Chemical
106423	1.17E+03	p-Xylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.69E-02	8.44E-06	7.64E-03	25	8,525	411.52	616.20	3.89E+02	1.85E+02	0.0E+00	1.0E-01

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	10,138	5.51E-03	2.29E-01	1.78E-04	1.60E-02	3.35E-05	9.27E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	2.68E+05	0.10	9.96E+01	1.60E-02	4.00E+02	3.33E+67	1.02E-05	2.75E+00	NA	1.0E-01

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.85E+05	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	2.6E-02

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W ($\mu g/L$)	Chemical
156605	1.80E+00	trans-1,2-Dichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.07E-02	1.19E-05	9.36E-03	25	6,717	320.85	516.50	5.25E+01	6.30E+03	0.0E+00	6.0E-02

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	7,036	7.45E-03	3.10E-01	1.78E-04	1.47E-02	3.19E-05	8.83E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	5.59E+02	0.10	9.96E+01	1.47E-02	4.00E+02	2.78E+73	9.75E-06	5.45E-03	NA	6.0E-02

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	6.30E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	8.7E-05

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (μg/L)	Chemical
75014	1.00E+00	Vinyl chloride (chloroethene)

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
1.06E-01	1.23E-05	2.69E-02	25	5,250	259.25	432.00	1.86E+01	8.80E+03	4.4E-06	1.0E-01

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	4,894	2.30E-02	9.58E-01	1.78E-04	2.21E-02	3.68E-05	1.02E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	9.58E+02	0.10	9.96E+01	2.21E-02	4.00E+02	9.68E+48	1.12E-05	1.08E-02	4.4E-06	1.0E-01

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	8.80E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
1.9E-08	1.0E-04

MESSAGE SUMMARY BELOW:

END

INTRODUCTION

This technical summary describes a vapor intrusion analysis of volatile organic compounds (VOCs) into the structure at Parcel #18-343-13-005, Southern Automatic Company property (Dentist Office), located adjacent to the Fashion Care Dry Cleaner at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia (HSI 10786). The Johnson & Ettinger transport model (J&E), release 3.1, was obtained directly from the EPA download page and updated with values from the November 2011 Regional Screening Level Table (RSLT). Tetrachloroethylene was updated to match the February 10, 2012 update from EPA. The J&E Model was then used to estimate the incremental cancer risk and Hazard Quotient from all detected VOCs based on sub-foundation soil vapor sampling conducted on May 31, 2011. For reference, the J&E Model[1] and November 2011 RSLT[2] can be obtained from current USEPA Websites. The following discussion is obtained directly from the J&E User's Guide:

The J&E Model is a one-dimensional analytical solution to convective and diffusive vapor transport into indoor spaces and provides an estimated attenuation coefficient that relates the vapor concentration in the indoor space to the vapor concentration at the source of contamination. The model is constructed as both a steady-state solution to vapor transport (infinite or non-diminishing source) and as a quasi-steady-state solution (finite or diminishing source). Inputs to the model include chemical properties of the contaminant, saturated and unsaturated zone soil properties, and structural properties of the building.

This manual provides documentation and instructions for using the vapor intrusion model as provided in the accompanying spreadsheets.

Model results (both screening and advanced) are provided as either a risk-based soil or groundwater concentration, or as an estimate of the actual incremental risks associated with a user-defined initial concentration. That is to say that the model will reverse-calculate an "acceptable" soil or groundwater concentration given a user-defined risk level (i.e., target risk level or target hazard quotient), or the model may be used to forward-calculate an incremental cancer risk or hazard quotient based on an initial soil or groundwater concentration.

In addition to the finite and infinite source models referred to above, two models (are included) that allow the user to input empirical soil gas concentration and sampling depth information directly into the spreadsheets. These models will subsequently estimate the resulting steady-state indoor air concentrations and associated health risks.

USER INPUTS

Limited input from the user is allowed in the screening version of the J&E model. User model inputs for the Dentist Office property vapor intrusion analysis, associated with Fashion Care site, are summarized in Table D-1 are discussed in the following:

> **Soil Vapor Concentration:** Shallow soil gas VOC concentration data were obtained beneath the foundation slab of the Dentist Office building on March 31, 2011. Samples were obtained approximately four inches below the concrete floor at sample locations VS-1 and VS-2. All detected VOC concentrations from this event were used in the J&E calculation to obtain a cumulative risk factor for cancer and hazard. 4-Ethyltoluene was included in the model as

[1] http://www.epa.gov/oswer/riskassessment/airmodel/johnson_ettinger.htm
[2] http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm

tert-butylbenzene since the J&E compound database (VLOOKUP) does not specifically include this gasoline-related hydrocarbon.

Soil Profile SCS Classifications: As shown in Table D-1, soil boring FMW-1 was used to obtain the soil characterization of the vadose zone lithology (primarily Sand immediately below the slab). Due to proximity to surface, these data have minimal influence on model results for the SG-SCREEN module used for this analysis.

Model Defaults: Default values for air exchange, slab thickness, air entry rate, and other structure variables were used. Although site specific building structure data could be used, the results from the modeling would likely not change significantly due to the model assumptions for human exposure and associated pathways of exposure. This is due to the inherent "exposure per unit volume" composition of the model. More advanced modeling would require a significant amount of structure measurement, including estimates of floor crack area, actual air exchange rates for this specific dry cleaner, and pressure differentials between inside and outside the building.

RESULTS AND CONCLUSION

Modeling of cumulative VOC vapor intrusion was conducted for the Dentist Office (Parcel #18-343-13-005 Southern Automatic Company Property), associated with the Fashion Care site, using the updated Johnson & Ettinger convection/diffusion model as executed in Excel spread sheet format and distributed by USEPA, Version 3.1 (2004). Two soil vapor samples collected directly beneath the floor were used to obtain data input for the soil gas screening model discussed previously. Individual VOC constituents used to calculate the cumulative risk factors are summarized in Table D-2.

Results from the vapor intrusion analysis indicate a cumulative human health risk below the HSRA standard of one incremental cancer in a population of 100,000, and below the Hazard Quotient threshold of 1.0. This calculation is performed under conservative exposure assumptions.

Model limitations are a significant factor in drawing conclusions from this analysis.

MODEL LIMITATION

The simplified Johnson & Ettinger one-dimensional convection and diffusion model used in the calculations is useful for screening under ideal conditions using site specific data. The Fashion Care site does not offer ideal conditions and exhibits the potential for significant variability in key simulation data inputs. Alternative site specific data inputs and assumptions could also be used to generate much different results. The conceptual model upon which this analysis was conducted may require revision in the future in order to improve the vapor intrusion predicative capability.

Tables
Model Inputs and Outputs

Table D-1
Input Parameters - Vapor Intrusion Modeling
Parcel #18-343-13-005 Southern Automatic Company Property
Johnson-Ettinger Soil Gas Scenario

Parameter	Symbol	Units	Value	Comment
User Input (Soil Gas Screening Model Version 3.1, 2004)				
See Table D-2 For Vapor Constituents	Cg	mg/M^3		SEE TABLE D-2
Slab Thickness	L_F	cm	15	Only 15 or 200 Allowed In Model - 15 Used
Depth to SG sample	L_{WT}	cm	24	Atlas Geo-Sampling Drilling Notes
Average Media Temperature	T_S	^oC	13	Soil and Groundwater Annual Average Temp
Average Vapor Intrusion Rate	Q_{soil}	L/min	5	50th Percentile For Climate Region 4
Model Inputs Used for Variable Calculations or Assumptions				
Soil Type At Water Table	SCS	n/a	S	Sand - Subgrade Surface
Soil Type In Vadose Zone	SCS	n/a	S	Sand - Soil Boring Log FMW-1
Soil Constantes Per SCS Code	Automatic Paramerter Lookup Function			Tabulated in VLOOKUP Sheet of Model
Vadose Zone Vapor Permeability	K_V	cm^2		Model Calculation Used
Target Risk (Carcinogens)	TR	n/a	1.0E-05	HSRA based allowable
Target Hazard Quotient (Non-Cancer)	THQ	n/a	1.0	Allowable Hazard Quotient for RfC
Averaging Time - Carcinogens	AT_C	yrs	70	EPA Recommended Per Model Guidance
Averaging Time - Noncarcinogens	AT_{NC}	yrs	30	EPA Recommended Per Model Guidance
Exposure Duration	ED	yr	30	EPA Recommended Per Model Guidance
Exposure Frequency	EF	days/yr	350	EPA Recommended Per Model Guidance

Model Results - Dentist Office Parcel #18-343-13-005 Southern Automatic Company Property		**Comments**
Cummulative Risk - Hazard Quotient	6.3E-02	CummulativeToxicity All Detected VOCs
Cummulative Risk - Cancer	1.8E-06	Cummulative Cancer All Detected VOCs

Table D-2
Results - Vapor Intrusion Modeling
Parcel #18-343-13-005 Southern Automatic Company Property
Johnson-Ettinger Soil Gas Scenario

Vapor Constituent	SAMPLE NO.		CAS No.	RISK FACTOR	
	VS-1	VS-2	(VLOOKUP)	Cancer	Hazard
Acetone	**240**	210	67641	N/A	4.2E-05
Carbon Disulfide	**43**	<6.3	75150	N/A	3.3E-04
Chloroform	**12**	<5.0	67663	**6.3E-07**	2.6E-04
Benzene	**57**	9.1	71432	**1.0E-06**	1.0E-02
Trichloroethene	**9.2**	<5.5	79016	**4.8E-08**	2.4E-02
Tetrachloroethene	**15**	10	127184	**8.7E-09**	2.0E-03
Toluene	**130**	48	108883	N/A	1.4E-04
Ethylebenzene	**21**	13	100414	**1.2E-07**	1.1E-04
o-Xylene	**16**	15	95476	N/A	8.5E-04
M,P-Xylene (as P-)	21	**38**	106423	N/A	2.0E-03
Styrene	**7.4**	6.5	100425	N/A	3.9E-05
4-Ethyltoluene	5.2	<5.0	N/A	N/A	1.9E-04
1,3,5-Trimethylbenzene	**6.2**	5.7	108678	N/A	6.4E-03
1,2,4-Trimethylbenzene	21	**23**	95636	N/A	1.7E-02
Cummulative Risk				**1.8E-06**	**6.3E-02**

Notes:

1) Inhalation Unit Risk Factor (IUR) and Reference Concentration (RfC) from Regional Screening Table (November 2011).
2) 4-Ethyltoluene is not in J&E compound data and calculated as tert-butylbenzene.
3) Risk Factor calculated on the highest detection in either sample VS-1 or VS-2.
4) N/A for Cancer Risk Factor indicates compound has no inhalation cancer factor in RSLT.

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
98066	5.20E+00			tert-Butylbenzene

4-Ethyltoluene modeled as tert-Butylbenzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
5.65E-02	8.02E-06	1.19E-02	25	8.980	442.10	1220.00	0.0E+00	1.4E-01	134.22

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	5.20E+00	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	9.466	8.75E-03	3.64E-01	1.78E-04	9.13E-03	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	5.20E+00	0.10	9.95E+01	9.13E-03	4.00E+02	2.07E+118	5.35E-03	2.78E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	1.4E-01

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	1.9E-04

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
95636	2.30E+01			1,2,4-Trimethylbenzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
6.06E-02	7.92E-06	6.14E-03	25	9.369	442.30	649.17	0.0E+00	7.0E-03	120.20

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	2.30E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	11,574	4.23E-03	1.76E-01	1.78E-04	9.80E-03	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	2.30E+01	0.10	9.95E+01	9.80E-03	4.00E+02	2.04E+110	5.38E-03	1.24E-01

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	7.0E-03

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	1.7E-02

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
108678	6.20E+00			1,3,5-Trimethylbenzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
6.02E-02	8.67E-06	5.87E-03	25	9.321	437.89	637.25	0.0E+00	5.0E-03	120.20

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	6.20E+00	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	11,556	4.04E-03	1.68E-01	1.78E-04	9.73E-03	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	6.20E+00	0.10	9.95E+01	9.73E-03	4.00E+02	1.11E+111	5.38E-03	3.34E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	5.0E-03

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	6.4E-03

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
67641	2.40E+02			Acetone

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
1.24E-01	1.14E-05	3.87E-05	25	6.955	329.20	508.10	0.0E+00	3.1E+01	58.08

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	2.40E+02	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	7.442	3.04E-05	1.27E-03	1.78E-04	2.00E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	2.40E+02	0.10	9.95E+01	2.00E-02	4.00E+02	7.94E+53	5.62E-03	1.35E+00

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	3.1E+01

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	4.2E-05

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
71432	5.70E+01			Benzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
8.80E-02	9.80E-06	5.54E-03	25	7.342	353.24	562.16	7.8E-06	3.0E-02	78.11

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	5.70E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	8.025	4.27E-03	1.78E-01	1.78E-04	1.42E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	5.70E+01	0.10	9.95E+01	1.42E-02	4.00E+02	9.20E+75	5.53E-03	3.15E-01

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.8E-06	3.0E-02

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
1.0E-06	1.0E-02

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
75150	4.30E+01			Carbon disulfide

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
1.04E-01	1.00E-05	3.02E-02	25	6.391	319.00	552.00	0.0E+00	7.0E-01	76.13

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	4.30E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	6.609	2.44E-02	1.02E+00	1.78E-04	1.68E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	4.30E+01	0.10	9.95E+01	1.68E-02	4.00E+02	1.89E+64	5.58E-03	2.40E-01

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	7.0E-01

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	3.3E-04

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
67663	1.20E+01			Chloroform

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
1.04E-01	1.00E-05	3.66E-03	25	6.988	334.32	536.40	2.3E-05	2.4E-01	119.38

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	1.20E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	7,456	2.88E-03	1.20E-01	1.78E-04	1.68E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	1.20E+01	0.10	9.95E+01	1.68E-02	4.00E+02	1.89E+64	5.58E-03	6.69E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
2.3E-05	2.4E-01

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
6.3E-07	2.6E-04

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
100414	2.10E+01			Ethylbenzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.50E-02	7.80E-06	7.86E-03	25	8.501	409.34	617.20	2.5E-06	1.0E+00	106.17

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	2.10E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	10,047	5.68E-03	2.37E-01	1.78E-04	1.21E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	2.10E+01	0.10	9.95E+01	1.21E-02	4.00E+02	1.35E+89	5.47E-03	1.15E-01

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
2.5E-06	1.0E+00

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
1.2E-07	1.1E-04

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
106423	3.80E+01			p-Xylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.69E-02	8.44E-06	7.64E-03	25	8.525	411.52	616.20	0.0E+00	1.0E-01	106.17

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	3.80E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	10,138	5.51E-03	2.29E-01	1.78E-04	1.24E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	3.80E+01	0.10	9.95E+01	1.24E-02	4.00E+02	8.49E+86	5.48E-03	2.08E-01

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	1.0E-01

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	2.0E-03

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
95476	1.60E+01			o-Xylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
8.70E-02	1.00E-05	5.18E-03	25	8.661	417.60	630.30	0.0E+00	1.0E-01	106.17

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	1.60E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	10,298	3.71E-03	1.55E-01	1.78E-04	1.41E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	1.60E+01	0.10	9.95E+01	1.41E-02	4.00E+02	6.87E+76	5.52E-03	8.84E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	1.0E-01

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	8.5E-04

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
127184	1.50E+01			Tetrachloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.20E-02	8.20E-06	1.84E-02	25	8.288	394.40	620.20	2.6E-07	4.0E-02	165.83

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	1.50E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	9.458	1.35E-02	5.63E-01	1.78E-04	1.16E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	1.50E+01	0.10	9.95E+01	1.16E-02	4.00E+02	7.00E+92	5.45E-03	8.18E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
2.6E-07	4.0E-02

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
8.7E-09	2.0E-03

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
100425	7.40E+00			Styrene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.10E-02	8.00E-06	2.74E-03	25	8.737	418.31	636.00	0.0E+00	1.0E+00	104.15

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	7.40E+00	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	10,346	1.96E-03	8.18E-02	1.78E-04	1.15E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	7.40E+00	0.10	9.95E+01	1.15E-02	4.00E+02	1.42E+94	5.45E-03	4.03E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	1.0E+00

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	3.9E-05

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
79016	9.20E+00			Trichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.90E-02	9.10E-06	1.03E-02	25	7.505	360.36	544.20	2.3E-06	2.0E-03	131.39

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	9.20E+00	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	8,440	7.82E-03	3.26E-01	1.78E-04	1.28E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	9.20E+00	0.10	9.95E+01	1.28E-02	4.00E+02	4.15E+84	5.49E-03	5.05E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
2.3E-06	2.0E-03

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
4.8E-08	2.4E-02

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
108883	1.30E+02			Toluene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
8.70E-02	8.60E-06	6.62E-03	25	7.930	383.78	591.79	0.0E+00	5.0E+00	92.14

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	1.30E+02	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	9.052	4.94E-03	2.06E-01	1.78E-04	1.41E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	1.30E+02	0.10	9.95E+01	1.41E-02	4.00E+02	6.87E+76	5.52E-03	7.18E-01

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	5.0E+00

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	1.4E-04

MESSAGE SUMMARY BELOW:

END

Revised Type 5 Risk Reduction Standard Derivations

WINTER ENVIRONMENTAL

Table 1

Type 5 RRS for Groundwater and Soil: Construction and Utility Workers

Parameter	CAS No.	RRS Type 5 Soil		RRS Type 5 Groundwater	
		Construction Worker (mg/kg)	Utility Worker (mg/kg)	Construction Worker (mg/L)	Utility Worker (mg/L)
VOCs					
Acetone	67-64-1	145,576	1,039,832	84.3	602
2-butanone	78-93-3	43,685	312,037	14.3	102
1,1-Dichloroethane	75-34-3	13,037	3,725	12.7	3.62
1,1-dichloroethene	75-35-4	252	1,803	0.589	4.21
cis-1,2-dichloroethene	156-59-2	619	4,424	2.6	18.3
trans-1,2-dichloroethene	156-60-5	231	1,648	0.174	1.24
Tetrachloroethylene	127-18-4	142	1,016	0.11	0.82
Trichloroethelene	79-01-06	6.8	49	0.006	0.041
Vinyl Chloride	75-01-4	77.5	27	0.27	0.097

Table 2
Type 5 Risk Reduction Standards for Soil

Parameter		RfD_o (mg/kg-d)	RfD_i (mg/kg-d)	CSF_o $(mg/kg\text{-}d)^{-1}$	CSF_i $(mg/kg\text{-}d)^{-1}$	WOE	Construction Worker Calculated Goal (Nonc)	Construction Worker Calculated Goal (Carc)	Construction Worker Type 5 RRSs	Utility Worker Calculated Goal (Nonc)	Utility Worker Calculated Goal (Carc)	Utility Worker Type 5 RRSs
VOCs												
Acetone	v	9.00E-01	8.90E+00	NA	NA	ND	145,576	NA	145,576	1,039,832	NA	1,039,832
2-butanone	v	6.00E-01	1.43E+00	NA	NA	NA	43,685	NA	43,685.2	312,037	NA	312,037
1,1-Dichloroethane	v	2.00E-01	NA	5.70E-03	5.60E-03	C	61,939	13037.27	13,037.3	442,424	3724.94	3,725
1,1-dichloroethene	v	5.00E-02	5.81E-02	NA	NA	C	252	NA	252.4	1,803	NA	1,803
cis-1,2-dichloroethene	v	2.00E-03	NA	NA	NA	NA	619	NA	619.4	4,424	NA	4,424
trans-1,2-dichloroethene	v	2.00E-02	1.71E-02	NA	NA	NA	231	NA	230.8	1,648	NA	1,648
Tetrachloroethylene	v	6.00E-03	1.14E-02	2.10E-03	9.10E-04	ND	142	9440.22	142.2	1,016	2697.21	1,016
Trichloroethylene	v	5.00E-04	5.70E-04	4.60E-02	1.40E-02	ND	7	550.68	6.8	49	157.34	49
Vinyl Chloride	v	3.00E-03	2.85E-02	7.20E-01	1.54E-02	A	78	93.15	77.5	554	26.62	27

WOE = Weight of Evidence

Sourrce: Regional Secreening Level (RSL) Chemical-Specific Parameters Supporting Table November 2010. USEPA.

NA = Not available

Noncarcinogens:

$$C = \frac{HI*BW*AT*365\ days/year}{EF*ED*[(1/RfD_o*CF*IR)+(1/RfD_i*IR_a*(1/VF+1/PEF)]}$$

Carcinogens:

$$C = \frac{TR*BW*AT*365\ days/year}{EF*ED*[(CSF_o*IR*CF)+(CSF_i*IR_a*(1/VF+1/PEF)]}$$

where:	Construction Worker		Utility Worker
HI (Hazard Index)	1		1
BW = Body Weight (kg), adult	70		70
AT = Averaging Time (years), (adult/carc)	70		70
AT = Averaging Time (years), (adult/nonc)	1		25
EF = Exposure Frequency (days/year)	250		35
ED = Exposure Duration (years), adult	1		25
RfD_o = Oral Reference Dose	chemical-specific		chemical-specific
IR = Ingestion Rate (mg/day), adult	330		330
TR = Target Risk	1.00E-05	1.00E-04	1.00E-05
CSF_o = Oral Cancer Slope Factor	chemical-specific		chemical-specific
IR_a = Air Inhalation Rate (m^3/day)(adult)	20		20
1/PEF = Inv of Particulate Emission Factor (kg/m^3)	2.15983E-10		2.15983E-10
CF = Conversion Factor (kg/mg)	1.00E-06		1.00E-06
1/VF = Volatilization Factor (kg/m^3)	chemical-specific		chemical-specific
RfD_i = Inhalation Reference Dose	chemical -specific		chemical -specific
CSF_i = Inhalation Slope Factor	chemical -specific		chemical -specific

Table 3
Type 5 Groundwater Risk Reduction Standards

Parameter	RfDo (mg/kg-d)	RfDi (mg/kg-d)	CSFo (mg/kg-d)-1	CSFi (mg/kg-d)-1	WOE		Calculated Goal (Nonc) Construction Worker (mg/L)	Calculated Goal (Carc) Construction Worker (mg/L)	Type 5 GW RRS Construction Worker (mg/L)	Calculated Goal (Nonc) Utility Worker (mg/L)	Calculated Goal (Carc) Utility Worker (mg/L)	Type 5 GW RRS Utility Worker (mg/L)
VOCs												
Acetone	9.00E-01	8.90E+00	NA	NA	ND	v	84.3	NA	84.3	602	NA	602
2-butanone	6.00E-01	1.43E+00	NA	NA	NA	v	14.3	NA	14.3	102	NA	102
1,1-Dichloroethane	2.00E-01	NA	5.70E-03	5.60E-03	C	v	256	12.7	12.7	1,825	3.62	3.62
1,1-Dichloroethene	5.00E-02	5.81E-02	NA	NA	C	v	0.589	NA	0.589	4.21	NA	4.21
Cis-1,2-Dichloroethene	2.00E-03	NA	NA	NA	NA	v	2.6	NA	2.6	18.3	NA	18.3
Trans--1,2-Dichloroethene	2.00E-02	1.71E-02	NA	NA	NA	v	0.174	NA	0.174	1.24	NA	1.24
Tetrachloroethylene	6.00E-03	1.14E-02	2.10E-03	9.10E-04	ND	v	0.115	7.719	0.11	0.82	2.205	0.820
Trichloroethylene	5.00E-04	5.70E-04	4.60E-02	1.40E-02	ND	v	0.006	0.50	0.006	0.04	0.142	0.041
Vinyl Chloride	3.00E-03	2.85E-02	7.20E-01	1.54E-02	A	v	0.271	0.338	0.271	1.93	0.097	0.097

v= volatile compound
units = mg/L
Sourrce: Regional Secreening Level (RSL) Chemical-Specific Parameters Supporting Table November 2010. USEPA.
NA = Not available
WOE = Weight of evidence

Noncarcinogens:

$$C = \frac{HI*BW*AT*365\ days/year}{EF*ED*[(1/RfD_o*IR_w) + (1/RfD_i*K*IR_a)]}$$

Carcinogens:

$$C = \frac{TR*BW*AT*365\ days/year}{EF*ED*[(CSF_o*IR_w)+(CSFi*K*IRa)]}$$

where:	Construction Worker	Utility Worker
HI (Hazard Index)	1	1
BW = Body Weight (kg), adult	70	70
AT = Averaging Time (years), (adult/carc)	70	70
AT = Averaging Time (years), (adult/nonc)	1	25
EF = Exposure Frequency (days/year)	250	35
ED = Exposure Duration (years), adult	1	25
RfD_o = Oral Reference Dose	Chemical-specific	Chemical-specific
IRw = Ingestion Rate of Water (L/day), adult	0.08	0.08
K = Volatilization Factor (unitless)	0.5	0.5
IRa = Air Inhalation Rate (m3/day)(adult)	20	20
TR = Target Risk (unitles)	1.00E-05	1.00E-04 1.00E-05

Table 4
Soil-to-Air Volatilization Factor

Parameter		Di (cm^2/sec)	H' unitless	HLC (atm-m^3/mol)	Koc (cm^3/g)	VF (m^3/kg)
VOCs						
Acetone	v	1.059E-01	1.431E-03	3.500E-05	2.364E+00	6.70E+03
2-butanone	v	9.144E-02	2.326E-03	5.690E-05	4.510E+00	7.82E+03
1,1-Dichloroethane	v	8.364E-02	2.298E-01	5.620E-03	3.182E+01	2.11E+03
1,1-Dichloroethene	v	8.631E-02	1.067E+00	2.610E-02	3.182E+01	8.64E+02
cis-1,2-dichloroethene	v	7.360E-02	1.670E-01	4.073E-03	3.550E+01	2.83E+03
trans-1,2-dichloroethene	v	8.761E-02	1.668E-01	4.080E-03	3.960E+01	2.74E+03
Tetrachloroethylene	v	5.047E-02	7.236E-01	1.770E-02	9.494E+01	2.64E+03
Trichloroethylene	v	6.866E-02	4.027E-01	9.850E-03	6.070E+01	2.44E+03
Vinyl Chloride	v	1.071E-01	1.137E+00	2.780E-02	2.173E+01	5.81E+02

Sourrce: Regional Secreening Level (RSL) Chemical-Specific Parameters Supporting Table November 2010. USEPA.

Derivation Of VF Values (Soil-to-Air Volatilization Factor):

$$VF(m^3/kg) = \frac{(LS \times V \times DH)}{A} \times \frac{(p \times a \times T)^{1/2}}{(2 \times D_{ei} \times E \times K_{as} \times 10^{-3}\ kg/g)}$$

where:

LS = length of side of contaminated area (m):	45
V = wind speed in mixing zone (m/s):	2.25
DH = diffusion height (m):	2
A = area of contamination (cm^2)	2.03E+07
p = pi:	3.14159265
a = (cm^2/s):	$(D_{ei} \times E)/(E + (rs \times ((1-E)/K_{as})))$
T = exposure interval (s), industrial:	7.88E+08
r_s = density of soil solids (g/cm^3):	2.65
OC = soil organic carbon content fraction (unitless):	0.02
D_{ei} = effective diffusivity (cm^2/s):	$D_i \times E^{0.33}$
D_i = molecular diffusivity (cm^2/s):	chemical-specific
E = total soil porosity (unitless):	0.35
K_{as} = soil/air partition coefficient (g soil/cm^3 air):	$(H/K_d) \times 41$
H = Henry's law constant (atm-m^3/mol):	chemical-specific
K_d = soil-water partition coefficient (cm^3/g):	$K_{oc} \times OC$
K_{oc} = organic carbon partition coefficient (cm^3/g):	chemical-specific

m = meter
s = second
cm = centimeter
g = gram =
atm-m3/mol = atmospheres-cubic meters per mole

VOLUNTARY REMEDIATION PROGRAM
VOLUNTARY INVESTIGATION AND REMEDIATION PLAN SEMIANNUAL STATUS REPORT

Date: June 2, 2011

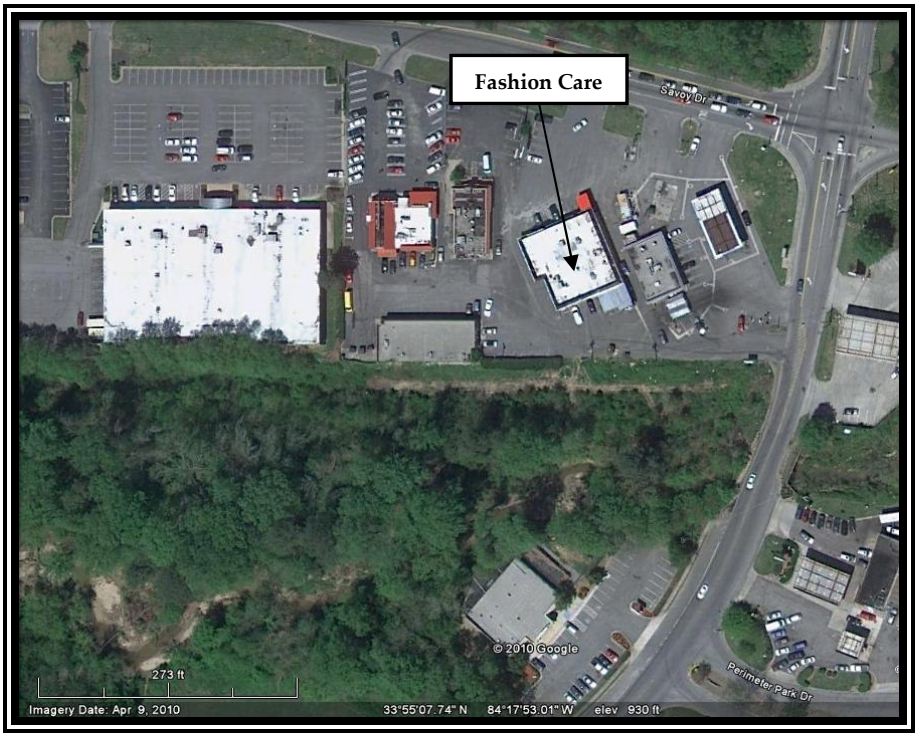
Site Name: Fashion Care/Executive Care Site, HSI No. 10786

Site Address: 2211 Savoy Drive, Chamblee, Georgia

County: DeKalb

This electronic copy of the Voluntary Investigation and Remediation Plan Semiannual Status Report dated June 2, 2011 for the above referenced Fashion Care/Executive Care Site, HSI No. 10786, 2211 Savoy Drive, Chamblee, Georgia, DeKalb County is complete, identical to the paper copy, and virus free.

Voluntary Investigation and Remediation Plan
Semiannual Status Report
Voluntary Remediation Program



Fashion Care/Executive Care Site
HSI No. 10786
2211 Savoy Drive, Chamblee, DeKalb County, Georgia

Prepared For

John F. Rowan, Sr. Item IV Trust
1300 Hestertown Road
Madison, GA 30650

Prepared by

WINTER ENVIRONMENTAL
Project No. 08096

June 2, 2011

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Section 1
PE/PG Certification

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

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

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

Leonard J. Diprima, Jr. / Georgia PG #949	June 2, 2011
Printed Name and GA PE/PG Number	Date

Signature and Stamp

LEONARD J. DIPRIMA, JR.
No. 949
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST

Section 2
Introduction

Winter Environmental has prepared this Voluntary Investigation and Remediation Plan Semiannual Status Report (Status Report) in accordance with the Voluntary Remediation Program (VRP) for the Fashion Care/Executive Care Site (Site), Hazardous Site Inventory (HSI) No. 10786, located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, on behalf of the John F. Rowan, Sr. Item IV Trust (Trust). On July 9, 2010, a Voluntary Investigation and Remediation Plan Application (VIRP) was submitted to the Georgia Environmental Protection Division (EPD) Hazardous Sites Response (HSRA) Program for the Site. On December 2, 2010, the EPD approved the VIRP with comments and entered the Site into the VRP. This Status Report has been prepared to present the first six months of activities, December 2, 2010 through June 2, 2011, conducted for the Site in accordance with the VRP.

Section 3
Work Performed – December 2, 2010 through June 2, 2011

The activities currently identified to be performed at the Site under the VRP are outlined in the VIRP dated July 9, 2010, the EPD VIRP approval letter dated December 2, 2010, the EPD VIRP comment letter dated December 2, 2010 and the VRP Action Plan Technical Memorandum dated February 3, 2011 included as an attachment to the Financial Assurance submittal to the EPD dated March 2, 2011. The activities that have been performed from December 2, 2010 through June 2, 2011 are as follows:

- Preparation of a scope of work and cost estimate to implement the VIRP;
- Submittal of a Financial Assurance instrument for completion of the VIRP;
- Re-examination of the construction log and analytical data for MW-23D (the deepest monitoring well on Site) and surrounding monitoring wells analytical data;
- Development of a budget estimate for installation of vapor mitigation system for the Fashion Care building (Parcel 18-343-13-002);
- Evaluation of the EPD 7Q10 stream flow value presented in the EPD VIRP comment letter dated December 2, 2010;
- Vapor modeling using the Johnson and Ettinger (J&E) Vapor Model for parcels 18-343-13-001 and
  18-333-02-023;
- Collection of vapor samples beneath the slab of the building currently on parcel 18-343-13-005, 4306 North Peachtree Road, Chamblee, Georgia, Southern Automatic Company;
- Calculation of site-specific utility and construction worker clean-up standards in accordance with Section 391-3-19-.07(10) for comparison to known soil and groundwater concentrations on each qualifying property;
- Winter Environmental and the Trust's counsel, Mr. Scott Hitch, Esquire, of Hitch and Webb LLP, have prepared revised draft Environmental Covenants for the following qualifying properties (see Figure 2, Tax Parcel Map):
  - Parcel 18-343-13-002, 2211 Savoy Drive, Chamblee, Georgia, John F. Rowan, Sr. Item IV Trust;
  - Parcel 18-343-13-001, 4308 North Peachtree Road, Chamblee, Georgia, Georgia-Alabama Commercial Investments, LLC (UST Facility I.D. No. 900341*1; EZ-Serve Site);
  - Parcel 18-333-02-023, no street address, Asl Limited Partnership;

- Evaluation of the optimum time of the year to conduct the eight surface water sampling events requested in the EPD VIRP comment letter dated December 2, 2010, based on publically available stream flow data for Nancy Creek; and

- Initial evaluation of modeling techniques for the Site.

These activities are described in more detail below.

3.1 Financial Assurance Instrument

On March 2, 2011, Mr. Scott Hitch, Esquire, of Hitch and Webb LLP, acting on behalf of the Trust, submitted to the EPD the Financial Assurance instrument in accordance with Condition #1 of the EPD VIRP approval letter dated December 2, 2010. The Financial Assurance instrument presented was in the form of a Surety Bond in the amount of $163,600. The scope of work and cost estimate to implement the VIRP was prepared by Winter Environmental and presented in a Technical Memorandum dated February 3, 2011 and included as an attachment. The flow chart of the currently anticipated scope of work is provided as Figure 1 in this Status Report.

3.2 Vapor Modeling and Vapor Sampling

Vapor modeling using the J&E Vapor Model (1991) was conducted for parcels 18-343-13-001 and 18-333-02-023. The model calculations and a summary of the input parameters and results for the parcels are included in Appendix A. The modeling was performed using the most recent round of groundwater data collected in May and June of 2010 and presented in the VIRP. The results from the J&E model were used to develop the vapor mitigation requirements, as required, and the revised draft Environmental Covenants.

The J&E model run for parcel 18-343-13-001 (Georgia-Alabama Commercial Investments, LLC) was run using only those constituents impacting groundwater as a result of the release of tetrachloroethene (PCE) from the Fashion Care Site, and not from the release of petroleum from the underground storage tanks (USTs) on this parcel. None of the constituents of interest (COI) from the Site are present in soil on this parcel; therefore, only groundwater impacts were used as input data into J&E. The results of the J&E indicate that the drycleaner constituents present do not pose a vapor intrusion risk above the HSRA standard (Rules for Hazardous Waste Management, Chapter 391-3-19-.07 (10)(d)) of 10^{-5} incremental cancer risk per constituent or cumulative risk for all constituents; nor does it exceed a Hazard Quotient of 1. Accordingly, based upon the J&E results, no vapor mitigation requirements were included in the draft Environmental Covenant for this property.

The J&E model run for parcel 18-333-02-023 (Asl Limited Partnership) was also run using only those constituents impacting groundwater as a result of the release of PCE from the Fashion Care Site, and not from the release of petroleum from the USTs on parcel 18-343-13-001. None of the COI from the Site are present in soil on this parcel; therefore, only groundwater impacts were used as input data into J&E

model. The results of the J&E model indicate that the drycleaner constituents present in groundwater do not pose a vapor intrusion risk above the HSRA standard (Rules for Hazardous Waste Management, Chapter 391-3-19-.07 (10)(d)) of 10^{-5} incremental cancer risk per constituent; however, the cumulative risk for multiple constituents does present a vapor intrusion potential above the HSRA standard of 10^{-5} incremental cancer risk. The Hazard Quotient of 1 is not exceeded. Accordingly, based upon the J&E model results, vapor mitigation requirements were included in the draft Environmental Covenant for this property.

Vapor sampling was conducted on May 20, 2011 beneath the building located on Parcel 18-343-13-005, 4306 North Peachtree Road, Chamblee, Georgia, Southern Automatic Company. The results of the vapor sampling had not been received at the time of this Status Report. The results and conclusions of the vapor sampling event will be included in, or submitted before, the next Semiannual Status report due December 2, 2011.

3.3 Site-specific Utility and Construction Worker Clean-up Standards

In accordance with Item #11 of the EPD VIRP comment letter dated December 2, 2010, site-specific utility and construction worker clean-up standards were calculated for the Site in accordance with HSRA Rules, Section 391-3-19-.07(10) for soil and groundwater. The calculations are presented in Appendix B, and the results are presented in Table 1. These standards were then compared to known soil and groundwater concentrations on each qualifying property for the Site to determine if, and what, worker protection measures should be included in the revised draft Environmental Covenants.

The standards were compared to the groundwater data points from each qualifying property in the most recent round of groundwater data collected in May and June of 2010 and the soil data presented in Table 2 of the VIRP from each property. The soil and groundwater data comparisons are presented in Tables 2 and 3. The results indicate that utility and construction worker protection measures should be taken as follows, and the Environmental Covenants for each property were revised accordingly:

- Parcel 18-343-13-002, 2211 Savoy Drive, Chamblee, Georgia, John F. Rowan, Sr. Item IV Trust. The construction and utility worker RRS for PCE in soil was exceeded. The construction and utility worker RRS for PCE, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene and vinyl chloride in groundwater were exceeded.
- Parcel 18-343-13-001, 4308 North Peachtree Road, Chamblee, Georgia, Georgia-Alabama Commercial Investments, LLC. There were no construction or utility worker RRS for groundwater exceeded on the property. No soil releases occurred on this property.
- Parcel 18-333-02-023, Asl Limited Partnership. The construction and utility worker RRS for PCE in groundwater was exceeded. No soil releases occurred on this property.
- Parcel 18-343-13-005, 4306 North Peachtree Road, Chamblee, Georgia, Southern Automatic Company. The utility and construction worker RRS will be compared to the soil and groundwater data from this property prior to the revision of its Environmental Covenant. The revised draft

Environmental Covenant for this property will be included in, or submitted before, the next Semiannual Status report due December 2, 2011.

3.4 Revised Draft Environmental Covenants

Winter Environmental and the Trust's counsel, Mr. Scott Hitch, Esquire, of Hitch and Webb LLP, have prepared revised draft Environmental Covenants for parcel 18-343-13-002 (2211 Savoy Drive, Chamblee, Georgia, John F. Rowan, Sr. Item IV Trust), parcel 18-343-13-001 (4308 North Peachtree Road, Chamblee, Georgia, Georgia-Alabama Commercial Investments, LLC), and parcel 18-333-02-023 (Asl Limited Partnership). The revised draft Environmental Covenants for these parcels are included in Appendix C, for EPD's review.

The revised draft Environmental Covenant for parcel 18-343-13-005 (4306 North Peachtree Road, Chamblee, Georgia, Southern Automatic Company) cannot be completed until the results from the vapor sampling conducted on the property have been received and evaluated. The revised draft Environmental Covenant for this property will be included in, or submitted before, the next Semiannual Status report due December 2, 2011.

3.5 Miscellaneous Activities

In response to EPD Item #7 of the EPD VIRP comment letter dated December 2, 2010, the construction log for MW-23D, currently the deepest monitoring well on Site and installed for the adjacent UST investigation at parcel 18-343-13-001, was reexamined along with the analytical data from MW-23D and surrounding monitoring wells. This was done to design additional assessment at the Site to further develop the Conceptual Site Model. No confirmatory change could be made in the Conceptual Site Model presented in the VIRP; therefore, additional data collection will be conducted in the vicinity of MW-23D and elsewhere on the Site, to further develop the current Conceptual Site Model (see Figure 3). The additional assessment activities are presented as Item 10 in the Figure 1 flow chart.

Winter Environmental prepared a budget estimate for installation of vapor mitigation system under the Fashion Care building on the parcel 18-343-13-002, to prevent the migration of volatile drycleaner constituents into the building from the impacted soil and groundwater beneath the structure. An active sub-slab depressurization system is proposed, and an example is presented in Appendix D. The system will have to be maintained for the life of the structure, or until natural degradation of the impacted soil and groundwater reaches contaminant concentrations set forth in the VIRP for a non-residential setting. Vapor mitigation requirements have been placed into the draft Environmental Covenant for the property for existing and future structures placed over the impacted area. A final estimate for the installation of the system will be provided to the Trust during the next six months and an installation schedule will be established and presented to the EPD.

Winter Environmental has evaluated EPD 7Q10 stream flow value of 3.0 cubic feet per second presented in the EPD VIRP comment letter dated December 2, 2010, and concurs with the use of this stream flow

value for future fieldwork and data evaluation. The EPD, in Item # 2 of the VIRP comment letter dated December 2, 2010, requested that eight surface water sampling events be conducted before June 2, 2011 when flow is close to 7Q10 and the results included in this Status Report. An evaluation of the historical, publically available, stream flow data for Nancy Creek was reviewed and it was determined that 7Q10 conditions are most likely to occur during the historical dry period of late summer to early fall for the Greater Atlanta Area. Therefore, based upon conversation with EPD, verbal approval of this rationale was given to Winter Environmental to conduct the surface water sampling events during this historical dry period. The results will be submitted in the second VRP Progress Report in December 2011. This change in schedule was documented in correspondence to the EPD dated May 13, 2011.

In response to EPD Item #17 of the EPD VIRP comment letter dated December 2, 2010, locks were installed on the protective casings on the monitoring wells that were most recently installed on Parcel 18-333-02-023, the Asl Limited Partnership property. The wells will be label during the next fieldwork event.

Section 4
Work to be Performed

The additional activities currently identified to be performed at the Site through completion of the VIRP are outlined in the VIRP dated July 9, 2010, the EPD VIRP approval letter dated December 2, 2010, the EPD VIRP comment letter dated December 2, 2010 and the VRP Action Plan Technical Memorandum dated February 3, 2011 included as an attachment to the Financial Assurance submittal to the EPD dated March 2, 2011. More specifically, these tasks are presented on Figure 1, Items #4, 6 through 11 and 13 through 20. The tasks projected to be completed during the next six months and included in the next Status Report to be submitted December 2, 2011 are as follows:

- Evaluation of the vapor sampling results from parcel 18-343-13-005 (4306 North Peachtree Road, Chamblee, Georgia, Southern Automatic Company), and completion of the draft Environmental Covenant for this property;
- Completion of a final design and cost estimate for the installation of a vapor mitigation system for the building on parcel 18-343-13-002;
- Preparation of a "Corrective Action Plan" to be implemented if a surface water detection occurs during future surface water sampling events;
- Conduct eight surface water sampling events during late summer/early fall when stream flow in Nancy Creek is close to 7Q10, and evaluation of the results;
- Complete horizontal groundwater delineation beyond FMW-15 through the installation of two shallow monitoring wells, and the collection of a full round of groundwater and surface water samples from the Site for use in modeling and to reestablish a groundwater concentration baseline for the VIRP;
- And possibly, to refine the Conceptual Site Model:
  - Installation of borings across the impacted area to confirm presence/absence of a dry silt, shallow confining unit,
  - Installation of a deeper soil zone well next to FMW-4 to establish a vertical gradient if the dry silt, shallow confining unit is uniformly present,
  - Installation of piezometers across Nancy Creek to confirm creek is a gaining stream, and
  - Conduct a well pump test to recalculate horizontal hydraulic gradient for the Site and for input into future modeling.

The tasks required to complete the VIRP are presented on Figure 4, a revised estimated schedule. This schedule will be revised with the submittal of each Semiannual Status Report, as required.

Section 5
Professional Services Hours This Period

A total of approximately 180.25 professional service hours have been completed by Winter Environmental and 30.5 service hours complete by Hitch and Webb, LLP from December 2, 2010 through June 2, 2011. A table of the approximate breakdown of Winter Environmental's hours by month is presented in Table 4.

Tables

Table 1

Site-specific Utility and Construction Worker Clean-up Standards (Type 5 RRS)

Parameter	CAS No.	RRS Type 5 Soil		RRS Type 5 Groundwater	
		Construction Worker (mg/kg)	Utility Worker (mg/kg)	Construction Worker (mg/L)	Utility Worker (mg/L)
VOCs					
Acetone	67-64-1	145,576	1,039,832	84.3	602
2-butanone	78-93-3	43,685	312,037	14.3	102
1,1-Dichloroethane	75-34-3	13,037	3,725	12.7	3.62
1,1-dichloroethene	75-35-4	592	4,229	0.577	4.12
cis-1,2-dichloroethene	156-59-2	3,097	NA	12.8	91.3
trans-1,2-dichloroethene	156-60-5	231	1,648	0.174	1.24
Tetrachloroethylene	127-18-4	214	61.0	0.286	0.082
Trichloroethelene	79-01-06	1,206	345	1.02	0.290
Vinyl Chloride	75-01-4	77.5	27	0.27	0.097

Table 2

Groundwater Data (May and June 2010) Compared to Site-specific Utility and Construction Worker Clean-up Standards

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 5 RRS		UST Program ISWQS (mg/L)	FMW-1[3]	FMW-2[3]	FMW-3[3]	FMW-4[3]	FWM-5	FMW-6	FMW-7	FMW-8[3]	FMW-9	FMW-10	FMW-11	FMW-12[3]	FMW-13[3]	FMW-14	FMW-15	FMW-16	SB-24[3]
	Date Sampled			Construction Worker	Utility Worker		3/8/10	3/8/10	3/9/10	3/8/10	3/11/10	3/11/10	3/9/10	3/8/10	3/11/10	3/11/10	3/11/10	3/17/10	3/17/10	5/27/10	6/15/10	6/15/10	3/16/10
Volatile Organic Compounds																							
Fashion Care HSRA Site Constituents of Interest																							
1,1-Dichloroethene		75-35-4	0.007	0.57727525	4.123394641	7.100	<0.005	<0.5	<0.005	**0.038**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
2-Butanone (MEK)		78-93-3	2	14.34116185	102.4368703		<0.05	<5.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.81J
Acetone		67-64-1	4	84.28974465	602.0696046		<0.05	<0.5	<0.05	0.094	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.6
cis-1, 2-Dichloroethene		156-59-2	0.53	12.775	91.25		0.024	0.16J	<0.005	**63.0**	0.039	0.18	<0.005	0.0022J	0.29	0.11	0.01	0.0014J	0.0011J	**0.0074**	<0.005	<0.005	**2.2**
Tetrachloroethene (PCE)		127-18-4	0.005**	0.285931255	0.081694644	0.0033	**0.006**	<0.5	<0.005	**17.0**	**1.2**	**1.4**	<0.005	<0.005	**1.6**	<0.005	**0.044**	0.0046J	**0.018**	**0.01**	<0.005	<0.005	<0.1
trans-1, 2-Dichloroethene		156-60-5	0.1	0.173574749	1.239819634	10	<0.005	<0.5	<0.005	**1.3**	<0.005	<0.005	<0.005	<0.005	0.0062	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.046J
Trichloroethene (TCE)		79-01-6	0.005**	1.015154955	0.290044273	0.03	0.0034J	<0.5	<0.005	**22.0**	**0.029**	**0.052**	<0.005	0.001J	**0.072**	**0.028**	**0.011**	<0.005	0.0026J	**0.02**	<0.005	<0.005	**0.02J**
Vinyl Chloride		75-01-4	0.002**	0.270697026	0.096597353	0.0024	<0.002	<0.2	<0.002	**1.8**	**0.0028**	<0.002	<0.002	<0.002	<0.002	**0.011**	<0.002	<0.002	<0.002	<0.002	**0.0061**	<0.002	**0.035J**
Properly Applied Chemicals and Non-HSRA Regulated Chemicals																							
1,2-Dichlorobenzene		95-50-1	NA(1)			1.300	<0.005	<0.5	<0.005	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
2-Hexanone		591-78-6	NR				<0.01	<1.0	<0.01	0.037	<0.01	<0.01	<0.01	0.015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.16J
Chlorobenzene		108-90-7	NA(1)				<0.005	<0.5	<0.005	0.002J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
Methylcyclohexane		108-87-2	NR				0.068	0.16J	0.051	0.039	<0.005	<0.005	<0.005	0.14	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.094J
Petroleum Constituents Related to the EZ-Serve UST SITE																							
1,2-Dibromoethane (EDB)		106-93-4	PRC			NA(2)	<0.005	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
1, 2-Dichloroethane		107-06-2	PRC			0.099	<0.005	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	0.0013J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.1
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC			NA(2)	<0.01	<1.0	<0.01	0.076	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.2
Benzene		71-43-2	PRC			0.071	1.2	14.0	0.19	3.7	<0.005	<0.005	<0.005	2.4	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	3.5
Cyclohexane		110-82-7	PRC			NA(2)	0.1	<0.5	0.053	0.069	<0.005	<0.005	<0.005	0.37	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.12
Ethylbenzene		100-41-4	PRC			29.0	0.6	3.0	0.0075	0.89	<0.005	<0.005	<0.005	2.2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	0.55
Isopropylbenzene		98-82-8	PRC			NA(2)	0.027	0.095J	0.034	0.038	<0.005	<0.005	<0.005	0.086	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.027J
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC			NA(2)	3.2	1.1	0.0012J	1.3	<0.005	0.064	<0.005	<0.005	0.19	0.017	0.14	0.047	<0.005	**0.0033**	**0.0021**	<0.001	8.1
Styrene		100-42-5	PRC			NA(2)	<0.005	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
Toluene		108-88-3	PRC			200	3.4	15.0	0.0065	7.1	<0.005	<0.005	<0.005	5.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	4.6
Xylenes, Total		1330-20-7	PRC			NA(2)	2.34	16.9	0.019	3.7	<0.01	<0.01	<0.01	12.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	3.15

NOTES:

BOLD Laboratory detection is above applicable regulatory standard.

ISWQS Georgia In-Stream Water Quality Standards (Rule 391-3-6-.03 Water Use Classifications and Water Quality Standards)

PRC Pertroleum related constituent

NA(1) Not Applicable - fumigant-insecticide properly applied

NA(2) Not Applicable - Petroleum related constituent which has no In-Stream Water Quality Standard

NR Not regulated

* Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Type 1 RRS has a higher value.

** RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS in Condition 8.

FPP Free-phase petroleum present in the monitoring well

Exceeds HSRA Type 5 RRS for both construction and utility workers

Exceeds one HSRA Type 5 RRS standard for either construction or utility workers

Table 2
Groundwater Data (May and June 2010) Compared to Site-specific Utility and Construction Worker Clean-up Standards

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 5 RRS		UST Program ISWQS (mg/L)	SB-25[3]	SB-26[3]	MW-8	MW-9R	MW-11[3]	MW-13	MW-19	MW-21	MW-23D[3]
	Date Sampled			Construction Worker	Utility Worker		3/16/10	3/16/10	3/9/10	3/9/10	3/9/10	3/11/10	5/27/10	5/27/10	3/9/10
Volatile Organic Compounds															
Fashion Care HSRA Site Constituents of Interest															
1,1-Dichloroethene		75-35-4	0.007	0.57727525	4.123394641	7.100	<0.1	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone (MEK)		78-93-3	2	14.34116185	102.4368703		<1.0	<2.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone		67-64-1	4	84.28974465	602.0696046		<1.0	<2.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
cis-1, 2-Dichloroethene		156-59-2	0.53	12.775	91.25		**0.78**	**9.7**	<0.005	**1.7**	0.021	<0.005	<0.005	<0.005	0.095
Tetrachloroethene (PCE)		127-18-4	0.005**	0.285931255	0.081694644	0.0033	<0.1	**9.0**	<0.005	**1.7**	**0.026**	<0.005	<0.005	<0.005	**18.0**
trans-1, 2-Dichloroethene		156-60-5	0.1	0.173574749	1.239819634	10	<0.1	0.057J	<0.005	0.021	0.0011J	<0.005	<0.005	<0.005	0.0015J
Trichloroethene (TCE)		79-01-6	0.005**	1.015154955	0.290044273	0.03	<0.1	**6.7**	<0.005	**0.62**	**0.016**	<0.005	<0.005	<0.005	**0.061**
Vinyl Chloride		75-01-4	0.002**	0.270697026	0.096597353	0.0024	<0.04	**0.81**	<0.002	**0.087**	0.001J	<0.002	<0.002	<0.002	<0.002
Properly Applied Chemicals and Non-HSRA Regulated Chemicals															
1,2-Dichlorobenzene		95-50-1	NA(1)			1.300	<0.1	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0021J
2-Hexanone		591-78-6	NR				<0.2	<0.5	0.021	<0.01	<0.01	<0.01	<0.01	**0.031**	<0.01
Chlorobenzene		108-90-7	NA(1)				<0.1	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methylcyclohexane		108-87-2	NR				<0.061J	0.17J	0.092	0.14	0.0012J	<0.005	<0.005	**0.039**	0.0058
Petroleum Constituents Related to the EZ-Serve UST SITE															
1,2-Dibromoethane (EDB)		106-93-4	PRC			NA(2)	<0.1	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005
1, 2-Dichloroethane		107-06-2	PRC			0.099	<0.1	<0.25	<0.005	<0.005	<0.005	<0.005	<0.001	<0.01	0.00093J
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC			NA(2)	<0.2	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	**0.017**	<0.01
Benzene		71-43-2	PRC			0.071	1.5	0.33	1.0	0.83	0.047	<0.005	<0.001	**1.2**	0.00028J
Cyclohexane		110-82-7	PRC			NA(2)	0.12	0.17J	0.075	0.12	<0.005	<0.005	<0.005	**0.03**	<0.005
Ethylbenzene		100-41-4	PRC			29.0	1.4	0.065J	1.1	1.5	0.017	<0.005	**0.0027**	**0.5**	0.0009J
Isopropylbenzene		98-82-8	PRC			NA(2)	0.044J	<0.25	0.081	0.14	0.001J	<0.01	<0.005	**0.028**	0.00036J
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC			NA(2)	0.62	<0.25	0.013	0.15	0.0041J	0.012	**0.0017**	**0.27**	0.015
Styrene		100-42-5	PRC			NA(2)	<0.1	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene		108-88-3	PRC			200	4.7	0.086J	2.3	0.15	0.0058	<0.005	<0.001	**0.26**	<0.005
Xylenes, Total		1330-20-7	PRC			NA(2)	6.3	0.081J	5.6	3.06	0.0084J	<0.01	<0.001	**1.2**	0.0041J

NOTES:

BOLD Laboratory detection is above applicable regulatory standard.
ISWQS Georgia In-Stream Water Quality Standards (Rule 391-3-6-.03 Water Use Classifications and Water Qua
PRC Pertroleum related constituent
NA(1) Not Applicable - fumigant-insecticide properly applied
NA(2) Not Applicable - Petroleum related constituent which has no In-Stream Water Quality Standard
NR Not regulated
* Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Type 1 RRS has a higher value.
** RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS in Conditio
FPP Free-phase petroleum present in the monitoring well
Exceeds HSRA Type 5 RRS for both construction and utility workers
Exceeds one HSRA Type 5 RRS standard for either construction or utility workers

Table 3

Soil Analytical Data Compared to Site-specific Utility and Construction Worker Clean-up Standards

Sample Event									Fashion Care Data									
	Location	CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		HSRA Type 5 RRS		UST Soil	B-5	B-6	B-7	B-7	B-8	B-9	B-10	B-10	B-10	B-11
	Depth (feet bgs)									2	2	2	10	5	5	2	10	15	2
Constituent	Date Sampled		0-2'	>2'	0-2'	>2'	Construction Worker	Utility Worker	TL*	04/17/07	04/17/07	04/17/07	08/18/06	08/18/06	08/18/06	04/18/07	08/18/06	08/18/06	04/18/07
Volatile Organic Compounds (VOCs) - mg/kg																			
1, 1-Dichloroethane		75-34-3	400	400	NC	NC	13,037	3,725	-	<0.0029	<0.0032	<0.0032	<0.003	<0.0034	<0.0038	<0.0033	<0.0031	<0.003	<0.0025
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	592	4,229	-	<0.0029	<0.0032	<0.0032	<0.003	<0.0034	<0.0038	<0.0033	<0.0031	<0.003	<0.0025
Acetone		67-64-1	400	400	94.6	94.6	145,576	1,039,832	-	0.170	0.25	0.25	<0.06	<0.068	<0.075	<0.066	<0.062	<0.061	<0.049
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	3,097	NA	-	<0.0029	<0.0032	<0.0032	<0.003	0.0087	0.08	<0.0033	<0.0031	0.015	0.020
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	214	61.0	-	<0.0029	<0.0032	<0.0032	<0.003	<0.0034	<0.0038	<0.0033	<0.0031	<0.003	<0.0025
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	231	1,648	-	<0.0029	<0.0032	<0.0032	<0.003	<0.0034	<0.0038	<0.0033	<0.0031	<0.003	0.006
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	1,206	345	-	<0.0029	<0.0032	<0.0032	<0.003	<0.0034	<0.0038	<0.0033	<0.0031	<0.003	<0.0025
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	77.5	27	-	<0.0058	<0.0065	<0.0063	<0.006	0.017	<0.0075	<0.0066	<0.0062	<0.0061	<0.0049
Benzene		71-43-2	PRC	PRC	PRC	PRC			0.02	<0.0029	<0.0032	<0.0032	**0.072**	0.014	**0.120**	<0.0033	<0.0031	<0.003	**0.029**
Toluene		108-88-3	PRC	PRC	PRC	PRC			135	<0.0029	<0.0032	<0.0032	0.004	<0.0034	0.0073	<0.0033	<0.0031	<0.003	<0.0025
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC			28	<0.0029	<0.0032	<0.0032	0.160	<0.0034	0.0081	<0.0033	<0.0031	<0.003	<0.0025
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC			700	<0.0058	<0.0065	<0.0063	0.012	<0.0068	0.0211	<0.0066	<0.0062	<0.0061	<0.0049
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC			-	<0.0029	<0.0032	<0.0032	0.034	0.0068	0.047	<0.0033	<0.0031	<0.003	0.032
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC			-	<0.0029	<0.0032	<0.0032	0.027	<0.0034	0.017	<0.0033	<0.0031	<0.003	<0.0025
MTBE		1634-04-4	PRC	PRC	PRC	PRC			-	<0.0029	<0.0032	<0.0032	<0.003	0.033	<0.0038	<0.0033	<0.0031	<0.003	<0.0025

Sample Event									Fashion Care Data											
	Location	CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		HSRA Type 5 RRS		UST Soil	B-12	B-12	B-12	B-15	B-15	B-15	B-16	B-16	B-16	B-17	B-17	B-17
	Depth (feet bgs)									2	10	15	2	5	7	2	5	7	2	4	6
Constituent	Date Sampled		0-2'	>2'	0-2'	>2'	Construction Worker	Utility Worker	TL*	04/18/07	08/18/06	08/18/06	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07
Volatile Organic Compounds (VOCs) - mg/kg																					
1, 1-Dichloroethane		75-34-3	400	400	NC	NC	13,037	3,725	-	<0.0032	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	592	4,229	-	<0.0032	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
Acetone		67-64-1	400	400	94.6	94.6	145,576	1,039,832	-	<0.064	<0.083	<0.068	<0.078	<0.073	<0.064	<0.059	<0.061	<0.078	<0.066	<0.061	<0.072
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	3,097	NA	-	0.0045	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	214	61.0	-	<0.0032	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	231	1,648	-	<0.0032	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	1,206	345	-	<0.0032	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	77.5	27	-	<0.0064	<0.0083	<0.0068	<0.0078	<0.0073	<0.0064	<0.0059	<0.0061	<0.0078	<0.0066	<0.0061	<0.0072
Benzene		71-43-2	PRC	PRC	PRC	PRC			0.02	**0.028**	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	**0.053**	**0.031**	**0.095**	<0.0033	<0.003	<0.0036
Toluene		108-88-3	PRC	PRC	PRC	PRC			135	0.0048	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC			28	<0.0032	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	0.0035	0.013	<0.0033	<0.003	<0.0036
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC			700	0.0118	<0.0083	<0.0068	<0.0078	<0.0073	<0.0064	<0.0059	<0.0061	0.022	<0.0066	<0.0061	<0.0072
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC			-	0.036	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	0.034	0.016	0.040	<0.0033	<0.003	<0.0036
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC			-	<0.0032	<0.0042	<0.0034	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	0.0077	<0.0033	<0.003	<0.0036
MTBE		1634-04-4	PRC	PRC	PRC	PRC			-	<0.0032	<0.0042	0.066	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036

Sample Event									Fashion Care Data													
	Location	CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		HSRA Type 5 RRS		UST Soil	B-18	B-18	B-18	B-20	B-20	B-20	B-21	B-21	B-21	B-22	B-22	B-22	B-23	B-23
	Depth (feet bgs)									2	5	10	2	5	7	2	5	7	2	5	10	2	5
Constituent	Date Sampled		0-2'	>2'	0-2'	>2'	Construction Worker	Utility Worker	TL*	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	4/17/07	4/17/07	4/17/07	04/18/07	04/18/07
Volatile Organic Compounds (VOCs) - mg/kg																							
1, 1-Dichloroethane		75-34-3	400	400	NC	NC	13,037	3,725	-	<0.0024	<0.0034	<0.0036	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	<0.0033	<0.0034	<0.0027	<0.0034	<0.0034	<0.0042
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	592	4,229	-	<0.0024	<0.0034	<0.0036	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	<0.0033	<0.0034	<0.0027	<0.0034	<0.0034	<0.0042
Acetone		67-64-1	400	400	94.6	94.6	145,576	1,039,832	-	<0.0024	<0.068	<0.073	<0.062	<0.065	<0.066	<0.063	<0.077	<0.066	<0.067	<0.054	<0.068	<0.071	<0.085
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	3,097	NA	-	<0.0024	<0.0034	<0.0036	0.063	1.4	1.0	0.027	0.0092	0.043	0.120	<0.0027	<0.0034	0.340	0.310
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	214	61.0	-	<0.0024	<0.0034	<0.0036	0.0091	<0.0033	<0.0033	0.0049	<0.0038	0.190	0.033	<0.0027	<0.0034	0.021	<0.0042
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	231	1,648	-	<0.0024	<0.0034	<0.0036	<0.0031	0.016	0.021	<0.0032	<0.0038	<0.0033	<0.0034	<0.0027	<0.0034	<0.0034	<0.0042
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	1,206	345	-	<0.0024	<0.0034	<0.0036	0.0052	<0.0033	<0.0033	<0.0032	<0.0038	0.0047	0.055	<0.0027	<0.0034	0.011	0.0052
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	77.5	27	-	<0.0048	<0.0068	<0.0073	<0.0062	0.053	0.029	<0.0063	<0.0077	<0.0066	<0.0067	<0.0054	<0.0068	0.011	0.050
Benzene		71-43-2	PRC	PRC	PRC	PRC			0.02	**0.055**	**0.370**	**0.490**	<0.0031	**0.022**	0.020	0.0034	<0.0038	0.013	<0.0034	0.010	**0.230**	<0.0034	<0.0042
Toluene		108-88-3	PRC	PRC	PRC	PRC			135	0.011	0.290	0.700	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	0.0044	<0.0034	<0.0027	0.0076	<0.0034	<0.0042
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC			28	<0.0024	0.065	2.6	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	<0.0033	<0.0034	<0.0027	0.610	<0.0034	<0.0042
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC			700	<0.0048	0.264	13.9	<0.0062	<0.0065	<0.0066	<0.0063	<0.0077	0.0206	<0.0067	<0.0054	0.942	<0.0071	<0.0085
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC			-	<0.0024	<0.0034	0.790	<0.0031	0.680	0.077	<0.0032	<0.0038	0.015	<0.0034	0.0088	1.3	0.005	0.0058
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC			-	<0.0024	0.004	0.320	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	<0.0033	<0.0034	<0.0027	0.084	<0.0034	<0.0042
MTBE		1634-04-4	PRC	PRC	PRC	PRC			-	<0.0024	<0.0034	<0.0036	<0.0031	<0.0033	<0.0033	0.030	0.017	0.013	<0.0034	<0.0027	<0.0034	<0.0034	<0.0042

Table 3

Soil Analytical Data Compared to Site-specific Utility and Construction Worker Clean-up Standards

Sample Event									Fashion Care Data									
Location		CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		HSRA Type 5 RRS		UST Soil TL*	B-25	B-25	B-25	B-26	B-26	B-26	FMW-4	FMW-4	FMW-4	SB-27
Depth (feet bgs)										2	5	10	2	5	10	0-2	4-8	11-13	0-2
Constituent	Date Sampled		0-2'	>2'	0-2'	>2'	Construction Worker	Utility Worker		4/17/07	4/17/07	4/17/07	4/17/07	4/17/07	4/17/07	9/4/08	9/4/08	9/4/08	9/4/08
Volatile Organic Compounds (VOCs) - mg/kg																			
1, 1-Dichloroethane		75-34-3	400	400	NC	NC	13,037	3,725	-	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	<0.0027	<0.0035	<0.15	<0.0026
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	592	4,229	-	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	<0.0027	<0.0035	<0.15	<0.0026
Acetone		67-64-1	400	400	94.6	94.6	145,576	1,039,832	-	<0.078	<0.063	<0.072	0.140	<0.054	<0.061	0.039	<0.035	<1.5	0.17
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	3,097	NA	-	0.040	0.022	0.087	<0.0031	0.110	0.035	0.041	0.12	1.7	0.068J
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	214	61.0	-	<0.0039	<0.0031	<0.0036	0.021	<0.0027	<0.0031	0.0087	<0.0035	0.05J	**18.0**
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	231	1,648	-	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	<0.0027	<0.0035	<0.15	<0.0026
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	1,206	345	-	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	0.0075	<0.0035	<0.15	0.12J
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	77.5	27	-	<0.0078	<0.0063	<0.0072	<0.0062	<0.0054	<0.0061	0.008	0.016	0.096J	<0.0026
Benzene		71-43-2	PRC	PRC	PRC	PRC			0.02	0.009	0.018	**0.080**	<0.0031	0.012	0.0032	0.0016	0.0083	**0.75**	<0.00052
Toluene		108-88-3	PRC	PRC	PRC	PRC			135	<0.0039	<0.0031	0.0042	<0.0031	<0.0027	<0.0031	<0.00053	0.0056	1.5	0.0026
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC			28	<0.0039	0.0056	0.016	<0.0031	0.007	<0.0031	<0.00053	0.001	0.33	<0.00052
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC			700	<0.0078	<0.0063	<0.0072	<0.0062	<0.0054	<0.0061	<0.00053	0.0039	1.15	<0.00052
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC			-	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	0.036	<0.0027	<0.0035	<0.15	<0.0026
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC			-	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	<0.0027	<0.0035	<0.15	<0.0026
MTBE		1634-04-4	PRC	PRC	PRC	PRC			-	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	NA	NA	NA	NA

Sample Event									Fashion Care Data - Soil Confirmation Samples																
Location		CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		HSRA Type 5 RRS		UST Soil TL*	SB-28	SB-28	SB-28	SB-29	SB-29	SB-29	SB-30	SB-30	SB-30	SB-31	SB-31	SB-31	SB-32	SB-32	SB-32	SB-33	SB-33
Depth (feet bgs)										0-2	4-6	8-10	0-2	4-6	8-10	0-2	4.5-6.5	8.5-10.5	0-2	4-6	7.5-9.5	0-2	3.5-5.5	6-8	0-2	4-6
Constituent	Date Sampled		0-2'	>2'	0-2'	>2'	Construction Worker	Utility Worker		05/08/09	05/08/09	05/08/09	5/8/09	5/8/09	05/08/09	05/08/09	5/8/09	5/8/09	05/08/09	05/08/09	5/8/09	5/8/09	5/8/09	5/8/09	5/8/09	5/8/09
Volatile Organic Compounds (VOCs) - mg/kg																										
1, 1-Dichloroethane		75-34-3	400	400	NC	NC	13,037	3,725	-	<0.19	<0.19	<0.17	<0.005	<0.005	<0.005	<0.2	<0.18	<0.18	<0.22	<0.18	<0.14	<0.15	<0.16	<0.19	<0.16	<0.14
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	592	4,229	-	<0.19	<0.19	<0.17	<0.005	<0.005	<0.005	<0.2	<0.18	<0.18	<0.22	<0.18	<0.14	<0.15	<0.16	<0.19	<0.16	<0.14
Acetone		67-64-1	400	400	94.6	94.6	145,576	1,039,832	-	<1.9	<1.9	<1.7	0.520	0.0690	0.0450	<2	<1.8	<1.8	<2.2	<1.8	<1.4	<1.5	<1.6	<1.9	<1.6	<1.4
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	3,097	NA	-	0.50	**73.0**	**10.0**	0.0140	0.0910	0.290	0.130	2.80	6.20	0.20	1.60	0.190	<0.15	0.270	2.50	0.130	0.590
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	214	61.0	-	**0.980**	**52.0**	**37.0**	0.0031	0.0220	0.0023	**2.30**	**6.70**	**1.50**	**3.40**	**4.50**	0.30	**15.0**	**1400.0**	**3800.0**	**2300.0**	**100.0**
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	231	1,648	-	<0.19	0.830	0.0640	<0.005	0.0016	0.0067	<0.2	<0.18	0.0410	<0.22	<0.18	<0.14	<0.15	<0.16	0.110	<0.16	<0.14
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	1,206	345	-	0.20	**15.0**	**4.0**	<0.005	0.0021	<0.005	0.160	**3.40**	**2.30**	0.270	**1.70**	0.350	<0.15	**3.40**	**30.0**	**4.40**	**1.70**
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	77.5	27	-	<0.19	<0.19	<0.17	<0.005	<0.005	0.0670	<0.2	<0.18	<0.2	<0.22	<0.18	<0.14	<0.15	<0.16	<0.19	<0.16	<0.14
Benzene		71-43-2	PRC	PRC	PRC	PRC			0.02	<0.19	<0.19	<0.17	0.0180	0.0046	**0.0570**	<0.2	<0.18	**0.07**	<0.22	<0.18	<0.14	<0.15	<0.16	**0.034**	<0.16	<0.14
Toluene		108-88-3	PRC	PRC	PRC	PRC			135	<0.19	<0.19	<0.17	0.0049	0.0081	0.0370	<0.2	<0.18	0.21	<0.22	<0.18	<0.14	<0.15	0.026	0.210	<0.16	<0.14
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC			28	<0.19	<0.19	<0.17	0.0011	0.0019	0.0190	<0.2	<0.18	0.051	<0.22	<0.18	<0.14	<0.15	<0.16	0.30	<0.16	<0.14
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC			700	<0.390	<0.390	0.0460	<0.01	0.00073	0.070	<0.4	<0.36	0.147	<0.43	<0.36	<0.27	<0.31	<0.31	0.710	<0.32	<0.28
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC			-	<0.19	<0.19	<0.17	<0.005	0.0077	0.0210	<0.2	<0.18	<0.18	<0.22	<0.18	<0.14	<0.15	<0.16	<0.19	<0.16	<0.14
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC			-	<0.19	<0.19	<0.17	<0.005	<0.005	0.0011	<0.2	<0.18	<0.18	<0.22	<0.18	<0.14	<0.15	<0.16	<0.19	<0.16	<0.14
MTBE		1634-04-4	PRC	PRC	PRC	PRC			-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Sample Event									Fashion Care Data - Soil Confirmation Samples									
Location		CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		HSRA Type 5 RRS		UST Soil TL*	SB-34	SB-34	SB-34	SB-35	SB-35	SB-35	SB-36	SB-36	SB-36
Depth (feet bgs)										0-2	2.5-4.5	5-7	0-2	2.5-4.5	5-7	0-2	3-5	6-8
Constituent	Date Sampled		0-2'	>2'	0-2'	>2'	Construction Worker	Utility Worker		05/18/09	05/18/09	05/18/09	5/18/09	5/18/09	5/18/09	5/18/09	5/18/09	5/18/09
Volatile Organic Compounds (VOCs) - mg/kg																		
1, 1-Dichloroethane		75-34-3	400	400	NC	NC	13,037	3,725	-	<0.058	<0.048	<0.046	<0.051	<0.046	<0.051	<0.048	<0.049	<0.047
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	592	4,229	-	<0.058	<0.048	<0.046	<0.051	<0.046	<0.051	<0.048	<0.049	<0.047
Acetone		67-64-1	400	400	94.6	94.6	145,576	1,039,832	-	<0.58	<0.48	<0.46	<0.51	<0.46	<0.51	<0.48	<0.49	<0.47
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	3,097	NA	-	<0.058	<0.048	0.31	<0.051	1.5	0.14	0.26	1.7	0.32
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	214	61.0	-	0.24	**2.6**	0.39	0.27	**1.0**	0.12	**0.59**	<0.049	0.11
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	231	1,648	-	<0.058	<0.048	<0.046	<0.051	<0.046	<0.051	<0.048	<0.049	<0.047
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	1,206	345	-	<0.058	0.053	0.26	<0.051	0.15	<0.051	0.11	<0.049	<0.047
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	77.5	27	-	<0.058	<0.048	<0.046	<0.051	<0.46	<0.051	<0.048	<0.049	<0.047
Benzene		71-43-2	PRC	PRC	PRC	PRC			0.02	<0.058	<0.048	<0.046	<0.051	**0.053**	<0.051	<0.048	**0.061**	<0.047
Toluene		108-88-3	PRC	PRC	PRC	PRC			135	<0.058	<0.048	<0.046	<0.051	<0.046	<0.051	<0.048	0.035	0.036
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC			28	<0.058	<0.048	<0.046	<0.051	<0.046	<0.051	<0.048	<0.049	0.027
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC			700	<0.12	<0.097	<0.092	<0.051	<0.046	<0.1	<0.095	<0.098	<0.093
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC			-	<0.058	<0.048	<0.046	<0.1	<0.092	<0.051	<0.048	<0.049	<0.047
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC			-	<0.058	<0.048	<0.046	<0.051	<0.046	<0.051	<0.048	<0.049	<0.047
MTBE		1634-04-4	PRC	PRC	PRC	PRC			-	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

	Exceeds one HSRA Type 5 RRS standard for either construction or utility workers
	Exceeds HSRA Type 5 RRS for both construction and utility workers
BOLD	Exceeds HSRA Type 3 RRS
BOLD	Exceeds HSRA Type 3 and 4 RRS
BOLD	Exceeds UST Program Soil Threshold Values

* The applicable UST Threshold Level is Table B, Lower Groundwater Pollution Susceptibility Area, ≤ 500 feet to a Surface Water Body.

NC Type 4 RRS not calculated

PRC Petroleum relalated constituents

** RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS in Condition 8.

Table 4

Approximate Professional Service Hours December 2, 2010 through June 2, 2011

Company	Month/Year	Hours Worked
Winter Environmental	December 2010	0
Winter Environmental	January 2011	17.25
Winter Environmental	February 2011	25.5
Winter Environmental	March 2011	11.5
Winter Environmental	April 2011	41.5
Winter Environmental	May 2011	54
Hitch & Webb LLP	December 2010 to June 2011	30.5
	Total Estimated Hours	**180.25**

Note: The above hours do not include subcontractor hours worked for Winter Environmental or Hitch & Webb LLP.

Figures

Figure 1

Flow Chart – Voluntary Investigation & Remediation Plan Tasks

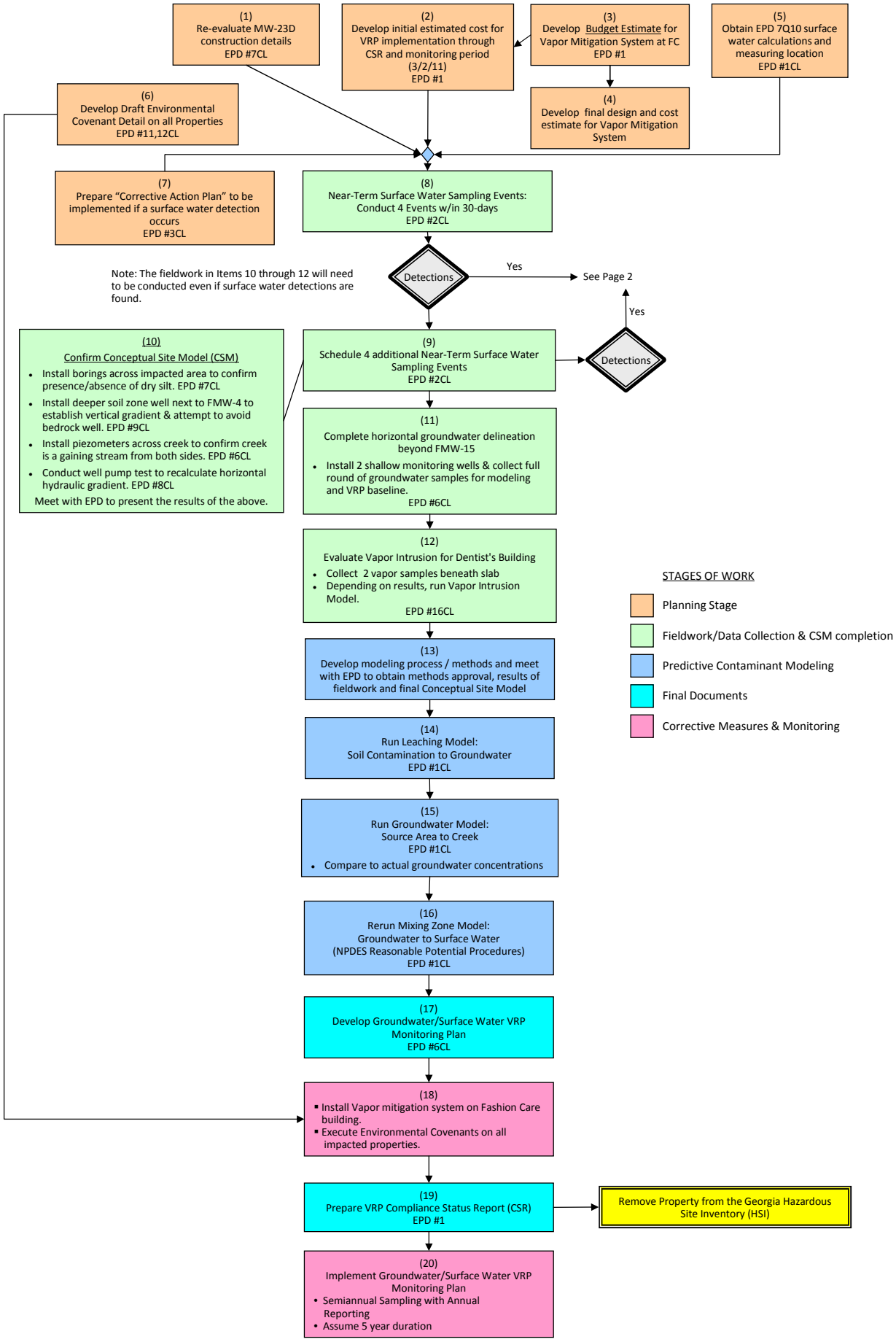
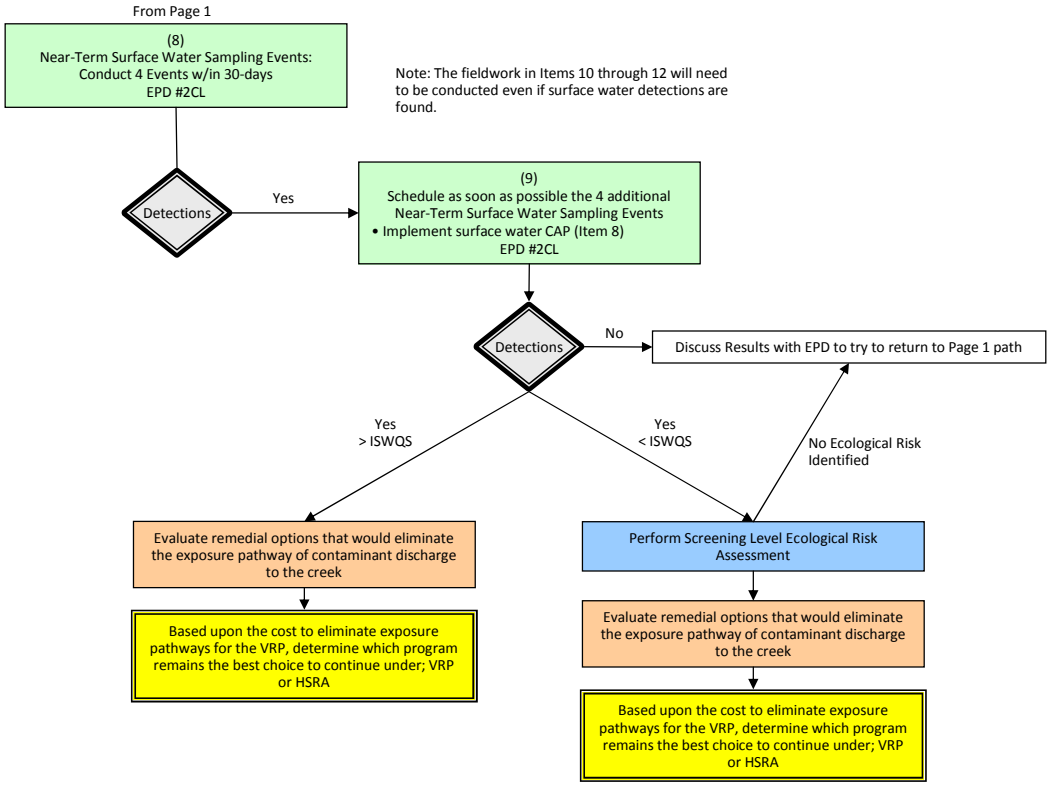


Figure 1 Contd.

Flow Chart – Voluntary Investigation & Remediation Plan Tasks



ISWQS = Georgia In-Stream Water Quality Standards

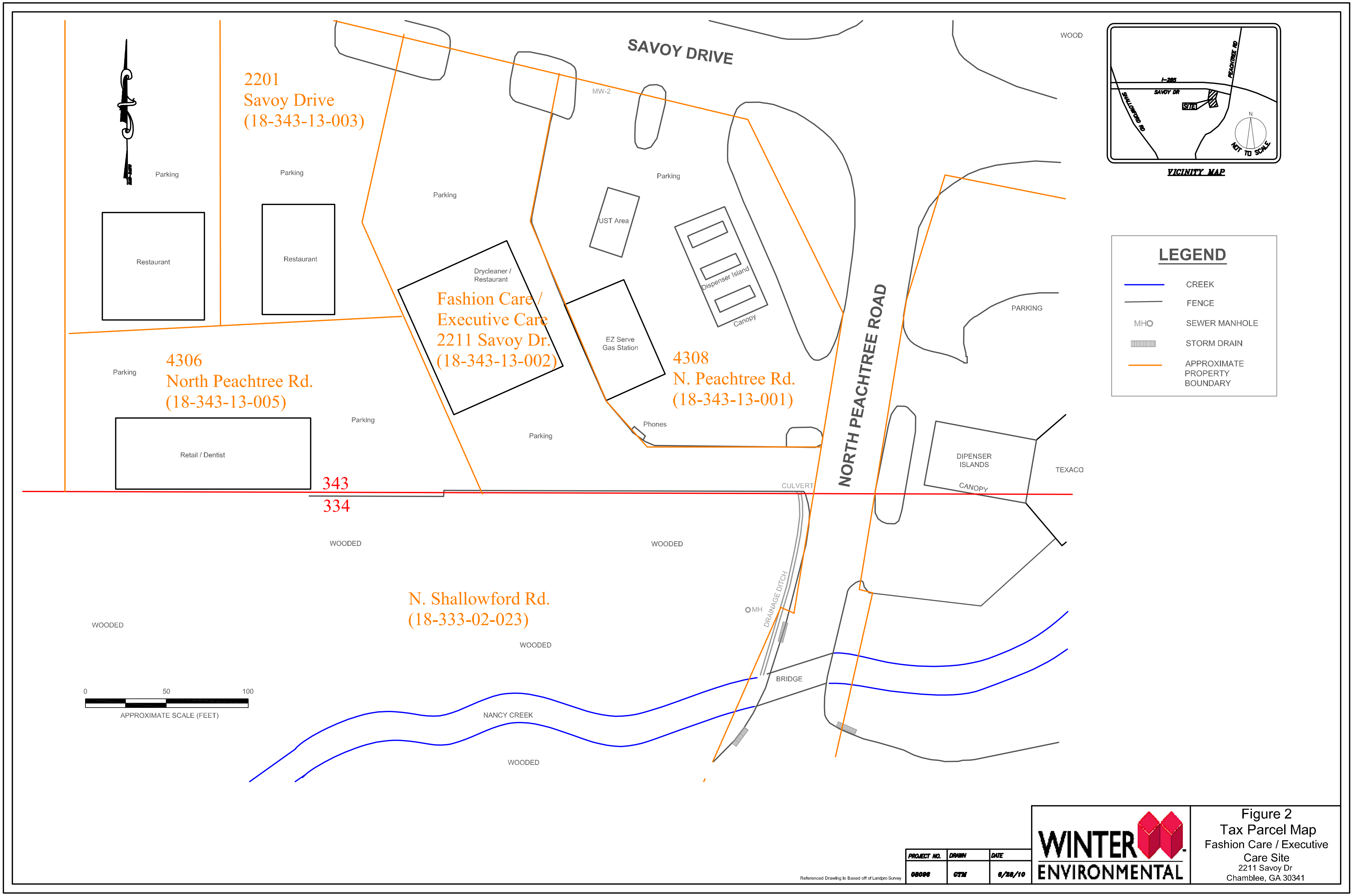
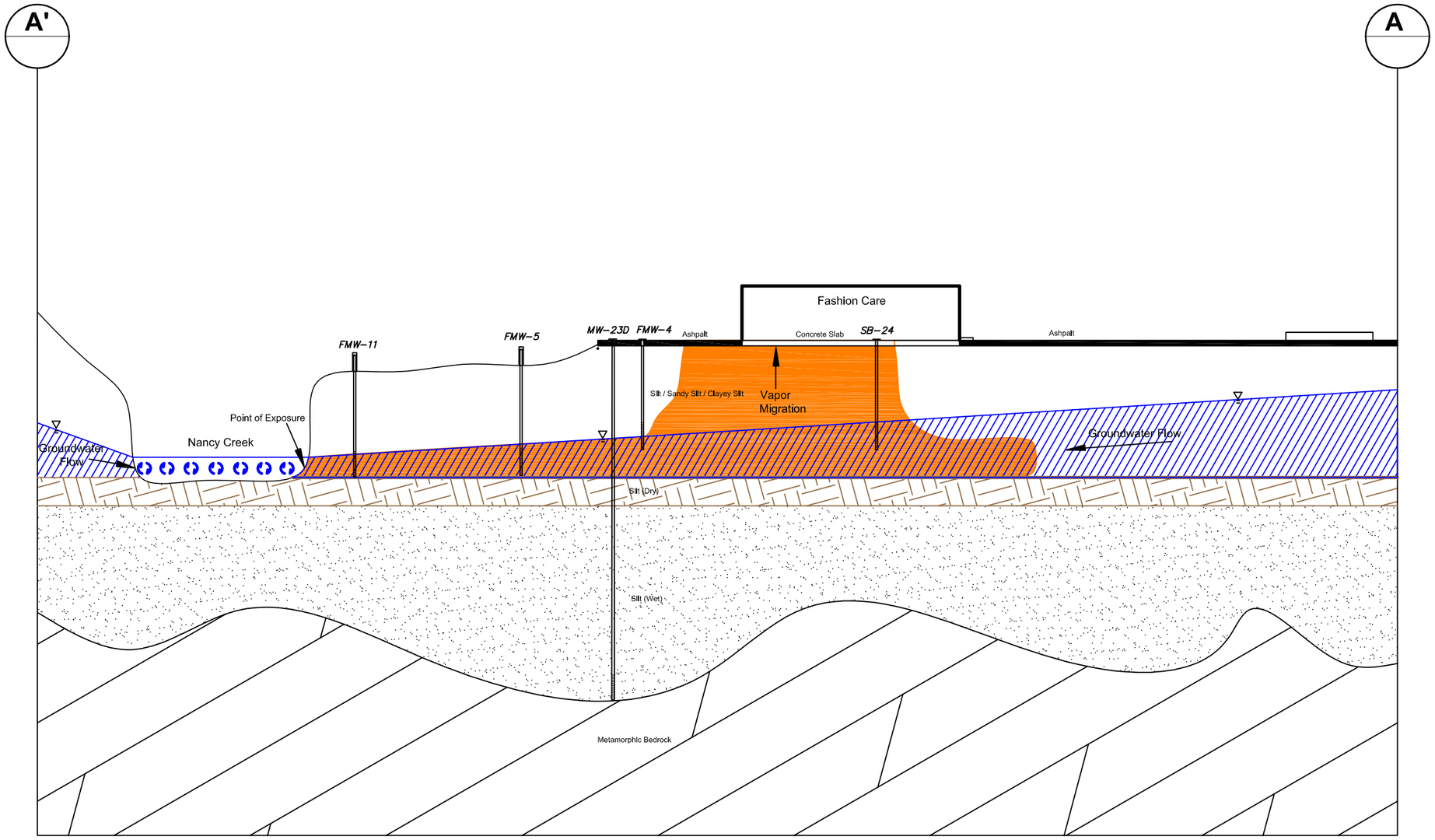
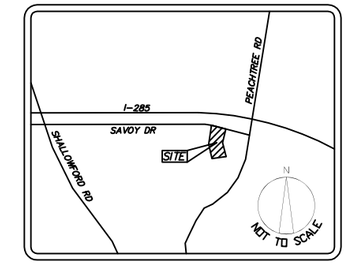


Figure 2
Tax Parcel Map
Fashion Care / Executive Care Site
2211 Savoy Dr
Chamblee, GA 30341



0' 30' 60' 90'

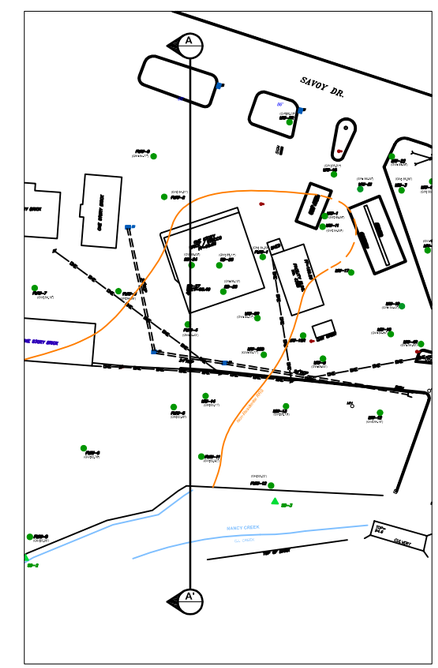
Approximate HORIZONTAL SCALE



VICINITY MAP

LEGEND

- Impacted Soil
- Impacted Groundwater
- Groundwater



Referenced Drawing is Based off of Landpro Survey

PROJECT NO.	DRAWN	DATE
08096	GTM	6/28/10

WINTER ENVIRONMENTAL

Figure 3

Conceptual Site Model

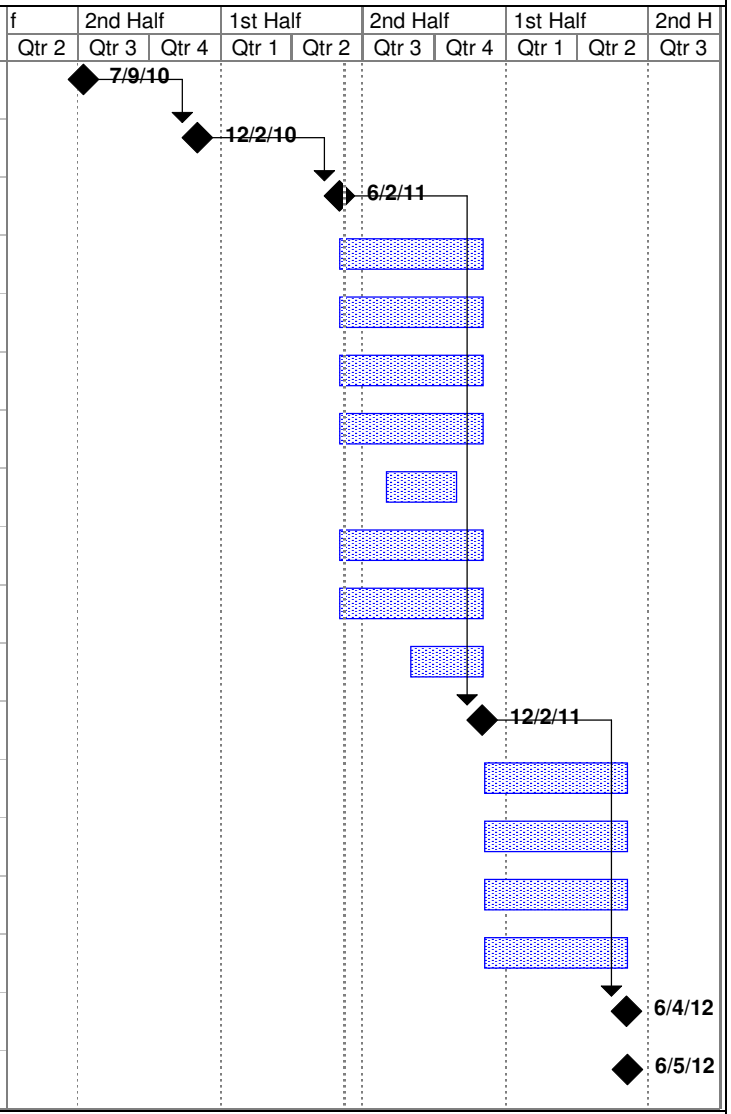
Fashion Care / Executive Care Site

2211 Savoy Dr

Chamblee, GA 30341

Figure 4
Estimated Voluntary Remediation Plan Schedule
Fashion Care/Executive Care Site, 2211 Savoy Drive, Chamblee, Georgia

ID	Task Name	Duration	Start	Finish
1	**VIRP Application Submittal**	0 days	Fri 7/9/10	Fri 7/9/10
2	**EPD Approval of VIRP**	0 days	Thu 12/2/10	Thu 12/2/10
3	**1st VIRP Status Report**	0 days	Thu 6/2/11	Thu 6/2/11
4	Vapor Sampling Evaluation	132 days	Thu 6/2/11	Fri 12/2/11
5	Revise Parcel 18-343-13-005 EC	132 days	Thu 6/2/11	Fri 12/2/11
6	Prepare Surface Water CAP	132 days	Thu 6/2/11	Fri 12/2/11
7	Final Design for Vapor Mitigation System	132 days	Thu 6/2/11	Fri 12/2/11
8	Conduct 8 Surface Water Sampling Events	65 days	Mon 8/1/11	Sat 10/29/11
9	Complete Horizontal Groundwater Delineation	132 days	Thu 6/2/11	Fri 12/2/11
10	Fieldwork to Confirm CSM	132 days	Thu 6/2/11	Fri 12/2/11
11	Execute Environmental Covenants	67 days	Thu 9/1/11	Fri 12/2/11
12	**2nd VIRP Status Report**	0 days	Fri 12/2/11	Fri 12/2/11
13	Site Fate & Transport modeling	131 days	Mon 12/5/11	Mon 6/4/12
14	Prepare VRP Groundwater & Surface Water Monitoring Plan	131 days	Mon 12/5/11	Mon 6/4/12
15	Install Vapor Mitigation System - Fashion Care Building	131 days	Mon 12/5/11	Mon 6/4/12
16	Prepare VRP CSR	131 days	Mon 12/5/11	Mon 6/4/12
17	**Submit VRP CSR**	0 days	Mon 6/4/12	Mon 6/4/12
18	**Implement Groundwater & Surface Water Monitoring Plan**	0 days	Tue 6/5/12	Tue 6/5/12



Task		Milestone		External Tasks	
Split		Summary		External Milestone	
Progress		Project Summary		Deadline	

Appendix A
Johnson and Ettinger Vapor Models

INTRODUCTION

This technical summary describes a vapor intrusion analysis of the tetrachloroethylene (PCE) and trichloroethylene (TCE) plumes at the Fashion Care Dry Cleaner located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia (HIS 10786). The Johnson & Ettinger transport model (J&E), release 3.1, obtained directly from the EPA download page was used to estimate the incremental cancer risk and Hazard Quotient from PCE in groundwater at the Georgia-Alabama Commercial Investments, LLC property (UST Facility I.D. No. 900341*1, EZ-Serve Gas Station Site, Tax Parcel 18-343-13-001). A companion analysis was performed for the Asl Limited Partnership property (Tax Parcel 18-333-02-023), an undeveloped wooded area located adjacent to the Fashion Care property. A hypothetical structure identical to the EZ-Serve Gas Station was the basis for calculations for the undeveloped Asl Limited Partnership property. Table VM-1 summarizes the model inputs and results for the both properties. For reference, the J&E Model can be obtained from the USEPA Web page[1]. The following discussion is obtained directly from the J&E User's Guide:

This revised version of the User's Guide corresponds with the release of Version 3.1 of the Johnson and Ettinger (1991) model (J&E) spreadsheets for estimating subsurface vapor intrusion into buildings. Several things have changed within the models since Version 2 was released in December 2000 and since the original version was released in September 1998. The following represent the major changes in Version 3.1 to be consistent with Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Quality from Groundwater and Soils dated November 25, 2002.

The J&E Model is a one-dimensional analytical solution to convective and diffusive vapor transport into indoor spaces and provides an estimated attenuation coefficient that relates the vapor concentration in the indoor space to the vapor concentration at the source of contamination. The model is constructed as both a steady-state solution to vapor transport (infinite or non-diminishing source) and as a quasi-steady-state solution (finite or diminishing source). Inputs to the model include chemical properties of the contaminant, saturated and unsaturated zone soil properties, and structural properties of the building.

This manual provides documentation and instructions for using the vapor intrusion model as provided in the accompanying spreadsheets.

Model results (both screening and advanced) are provided as either a risk-based soil or groundwater concentration, or as an estimate of the actual incremental risks associated with a user-defined initial concentration. That is to say that the model will reverse-calculate an "acceptable" soil or groundwater concentration given a user-defined risk level (i.e., target risk level or target hazard quotient), or the model may be used to forward-calculate an incremental cancer risk or hazard quotient based on an initial soil or groundwater concentration.

USER INPUTS

Limited input from the user is allowed in the screening version of the J&E model. User model inputs for the Fashion Care vapor intrusion analysis summarized in Table VM-1 are discussed in the following:

Groundwater Concentration (Georgia-Alabama Commercial Investments, LLC property): Shallow groundwater water concentration data obtained in March, 2010, were evaluated as a basis for estimating representative PCE and TCE concentrations in groundwater beneath the

[1] http://www.epa.gov/oswer/riskassessment/airmodel/johnson_ettinger.htm

Georgia-Alabama Commercial Investments, LLC property tax parcel. PCE and TCE concentrations from monitoring wells FMW-1 and MW-11 were averaged in order to provide a representative groundwater concentration scenario for this location. Several monitoring wells surrounding the EZ-Serve Gas Station have or had free product (petroleum) and did not provide PCE or TCE data.

Groundwater Concentration (Asl Limited Partnership property): Shallow groundwater water concentration data obtained from monitoring wells FMW-5, FMW-6, FMW-11 (March 2010) and MW-14 (September 2008) were used to calculate PCE and TCE groundwater concentrations where a hypothetical structure would encounter vapor intrusion at a future date. The area encompassed by these wells fairly represents a potential development area from a structure similar to the EZ-Serve Gas Station. This area also emphasizes the portion of the groundwater plume with significant PCE and TCE concentrations.

Soil Profile SCS Classifications: As shown in Table VM-1, soil boring FMW-1 was used to obtain the depth to groundwater, the soil characterization at the groundwater interface (Silty Clay) and the vadose zone lithology (Sand). These data have some of the largest influence on model results for the GW-SCREEN module used for this analysis.

Model Defaults: Default values for air exchange, slab thickness, air entry rate, and other structure variables were used. Although site specific building structure data could be used, the results from the modeling would likely not change significantly due to the model assumptions for human exposure and associated pathways of exposure. This is due to the inherent "exposure per unit volume" composition of the model. More advanced modeling would require a significant amount of structure measurement, including estimates of floor crack area, actual air exchange rates for this specific dry cleaner, and pressure differentials between inside and outside the building.

RESULTS AND CONCLUSION

Modeling of PCE and TCA vapor intrusion was conducted for Fashion Care adjoining properties using the standardized Johnson & Ettinger convection/diffusion model as executed in Excel spread sheet format and distributed by USEPA, Vesion 3.1 (2004). Results for two groundwater concentrations (as discussed above) are summarized in Table VM-1 for the Georgia-Alabama Commercial Investments, LLC property. There appears to be less ambiguity regarding a representative groundwater concentration for a future hypothetical structure on the undeveloped Asl Limited Partnership property. Therefore, a single scenario for vapor intrusion into a hypothetical structure identical to the EZ-Serve Gas Station was conducted for the Asl Limited Partnership property, and results are also summarized in Table VM-1.

Results from the vapor intrusion analysis are easily interpreted, but the conclusion from the analysis is much less straight forward. A general conclusion regarding both properties is that, under the default structure parameters provided in the model, there is virtually no expectation of human health impacts resulting from toxicity. All scenarios are far below a Hazard Quotient of 1 for both TCE and PCE.

Conclusions regarding incremental cancer for workers over a lifetime of exposure must be drawn after calculating added risk of 0.14-per-million (PCE) and 0.91-per-million (TCE). When added together, the cumulative risk is 0.105-per- hundred thousand, substantially below the HSRA standard of one-per-hundred thousand. The overall conclusion for the Georgia-Alabama Commercial Investments, LLC property vapor intrusion incremental cancer risk is that there is likely to be virtually no additional cancer risk, as calculated using very conservative model input assumptions.

Conclusions regarding incremental cancer risk for the Asl Limited Partnership property hypothetical scenario are different compared to the Georgia-Alabama Commercial Investments, LLC property. Without modern vapor barriers or controls, i.e., assuming identical construction compared to the EZ-Serve Gas Station structure assumptions, the incremental cancer risk is 6-per-million (PCE) and 10-per-million (TCE), or a cumulative 1.6 per-hundred thousand. This value slightly exceeds the allowable HSRA standard of one-per-hundred thousand.

Model limitations are a significant factor in drawing conclusions from this analysis.

MODEL LIMITATION

The simplified Johnson & Ettinger one-dimensional convection and diffusion model used in the calculations is useful for screening under ideal conditions using site specific data. The Fashion Care site does not offer ideal conditions and exhibits the potential for significant variability in key simulation data inputs. Alternative site specific data inputs and assumptions could also be used to generate much different results. The conceptual model upon which this analysis was conducted may require revision in the future in order to improve the vapor intrusion predicative capability.

Table VM-1
Vapor Intrusion Analyis - Fashion Care Site
Parcels 18-343-13-001 (GA-AL Commercial Investments) and 18-333-02-023 (Asl Limited Partnership)
May 9, 2011

Parameter	Symbol	Units	Value	Comment
User Input (Groundwater Screening Model Version 3.1, 2004)				
Gas Station PCE	Cw	ug/L	17	FMW1 & MW-11
Gas Station TCE	Cw	ug/L	8	FMW1 & MW-11
Wooded Lot PCE	Cw	ug/L	726	FMW5, FMW6, FMW11, MW14
Wooded Lot TCE	Cw	ug/L	88	FMW5, FMW6, FMW11, MW14
Slab Thickness	L_F	cm	15	Only 15 or 200 Allowed In Model - 15 Used
Depth to Water	L_{WT}	cm	549	Soil Boring Log FMW-1
Average Media Temperature	T_S	^oC	13	Soil and Groundwater Annual Average Temp
Average Vapor Intrusion Rate	Q_{soil}	L/min	5	50th Percentile For Climate Region 4
Model Inputs Used for Variable Calculations or Assumptions				
Soil Type At Water Table	SCS	n/a	SIC	Silty Clay - Soil Boring Log FMW-1
Soil Type In Vadose Zone	SCS	n/a	S	Sand - Soil Boring Log FMW-1
Soil Constantes Per SCS Code	Automatic Paramerter Lookup Function			Tabulated in VLOOKUP Sheet of Model
Vadose Zone Vapor Permeability	K_V	cm^2		Model Calculation Used
Target Risk (Carcinogens)	TR	n/a	1.0E-05	HSRA based allowable
Target Hazard Quotient (Non-Cancer)	THQ	n/a	1.0	Allowable Hazard Quotient for RfC
Averaging Time - Carcinogens	AT_C	yrs	70	EPA Recommended Per Model Guidance
Averaging Time - Noncarcinogens	AT_{NC}	yrs	30	EPA Recommended Per Model Guidance
Exposure Duration	ED	yr	30	EPA Recommended Per Model Guidance
Exposure Frequency	EF	days/yr	30	EPA Recommended Per Model Guidance

Parcel 18-343-13-001, Georgia-Alabama Commercial Investments (UST Facility) Vapor Model Results		**PCE**	**TCE**	**Comments**
GW Concentration - Risk Based	ug/L	1210	88	1e-5 Risk GW Concentration
GW Concentration - HQ Based	ug/L	1.84E+05	1.66E+04	GW Concentration For HW =1.0
Incremental Risk - Carcinogen	Lower	1.40E-07	9.10E-07	Current Condition - Lower Average Conc.
Incremental Risk - Hazard Quotient	Lower	9.40E-05	4.80E-04	HQ at RfC - Lower Average Conc.
Parcel 18-333-02-023, Asl Limited Partnership Vapor Model Results				
GW Concentration - Risk Based	ug/L	1210	88	1e-5 Risk GW Concentration
GW Concentration - HQ Based	ug/L	1.84E+05	1.66E+04	GW Concentration For HW =1.0
Incremental Risk - Carcinogen		6.00E-06	1.00E-05	Current Condition - Higher Average Conc.
Incremental Risk - Hazard Quotient		3.90E-03	5.30E-03	HQ at RfC - Higher Average Conc.

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES: X

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES:

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
127184	4.34E+02	Tetrachloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-05	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

INTERMEDIATE CALCULATIONS SHEET
Parcel 18-343-13-001, Georgia-Alabama Commercial Investments (UST Facility) Vapor Model Results

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	9,523	9.35E-03	3.98E-01	1.76E-04	1.50E-02	2.80E-05	7.74E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	3.98E+02	0.10	8.33E+01	1.50E-02	4.00E+02	2.31E+60	8.54E-06	3.40E-03	5.9E-06	6.0E-01

RESULTS SHEET

Parcel 18-343-13-001, Georgia-Alabama Commercial Investments (UST Facility) Vapor Model Results

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (μg/L)	Indoor exposure groundwater conc., noncarcinogen (μg/L)	Risk-based indoor exposure groundwater conc., (μg/L)	Pure component water solubility, S (μg/L)	Final indoor exposure groundwater conc., (μg/L)
1.21E+03	1.84E+05	1.21E+03	2.00E+05	1.21E+03

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	NA

MESSAGE SUMMARY BELOW:

MESSAGE: The values of Csource and Cbuilding on the INTERCALCS worksheet are based on unity and do not represent actual values.

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
127184	4.34E+02	Tetrachloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-05	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

DATA ENTRY SHEET

Parcel 18-343-13-001, Georgia-Alabama Commercial Investments (UST Facility) Vapor Model Results

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	9,523	9.35E-03	3.98E-01	1.76E-04	1.50E-02	2.80E-05	7.74E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	1.73E+05	0.10	8.33E+01	1.50E-02	4.00E+02	2.31E+60	8.54E-06	1.48E+00	5.9E-06	6.0E-01

DATA ENTRY SHEET

Parcel 18-343-13-001, Georgia-Alabama Commercial Investments (UST Facility) Vapor Model Results

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (μg/L)	Indoor exposure groundwater conc., noncarcinogen (μg/L)	Risk-based indoor exposure groundwater conc., (μg/L)	Pure component water solubility, S (μg/L)	Final indoor exposure groundwater conc., (μg/L)
NA	NA	NA	2.00E+05	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
3.6E-06	2.4E-03

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
Parcel 18-343-13-001, Georgia-Alabama Commercial Investments (UST Facility) Vapor Model Results

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [X]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [ ]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
79016	1.59E+02	Trichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-05	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

INTERMEDIATE CALCULATIONS SHEET
Parcel 18-343-13-001, Georgia-Alabama Commercial Investments (UST Facility) Vapor Model Results

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	8,520	5.62E-03	2.39E-01	1.76E-04	1.64E-02	3.45E-05	9.54E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	2.39E+02	0.10	8.33E+01	1.64E-02	4.00E+02	1.03E+55	1.05E-05	2.52E-03	1.1E-04	4.0E-02

RESULTS SHEET

Parcel 18-343-13-001, Georgia-Alabama Commercial Investments (UST Facility) Vapor Model Results

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (μg/L)	Indoor exposure groundwater conc., noncarcinogen (μg/L)	Risk-based indoor exposure groundwater conc., (μg/L)	Pure component water solubility, S (μg/L)	Final indoor exposure groundwater conc., (μg/L)
8.78E+01	1.66E+04	8.78E+01	1.47E+06	8.78E+01

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	NA

MESSAGE SUMMARY BELOW:

MESSAGE: The values of Csource and Cbuilding on the INTERCALCS worksheet are based on unity and do not represent actual values.

MESSAGE: Risk/HQ or risk-based groundwater concentration is based on a route-to-route extrapolation.

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
79016	1.59E+02	Trichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-05	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

INTERMEDIATE CALCULATIONS SHEET
Parcel 18-343-13-001, Georgia-Alabama Commercial Investments (UST Facility) Vapor Model Results

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	8,520	5.62E-03	2.39E-01	1.76E-04	1.64E-02	3.45E-05	9.54E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	3.81E+04	0.10	8.33E+01	1.64E-02	4.00E+02	1.03E+55	1.05E-05	4.01E-01	1.1E-04	4.0E-02

RESULTS SHEET

Parcel 18-343-13-001, Georgia-Alabama Commercial Investments (UST Facility) Vapor Model Results

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.47E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
1.8E-05	9.6E-03

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based groundwater concentration is based on a route-to-route extrapolation.

END

DATA ENTRY SHEET
Parcel 18-333-02-023, Asl Limited Partnership Vapor Model Results

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES: X

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES:

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
127184	7.26E+02	Tetrachloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-05	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

INTERMEDIATE CALCULATIONS SHEET
Parcel 18-333-02-023, Asl Limited Partnership Vapor Model Results

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	9,523	9.35E-03	3.98E-01	1.76E-04	1.50E-02	2.80E-05	7.74E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	3.98E+02	0.10	8.33E+01	1.50E-02	4.00E+02	2.31E+60	8.54E-06	3.40E-03	5.9E-06	6.0E-01

RESULTS SHEET
Parcel 18-333-02-023, Asl Limited Partnership Vapor Model Results

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (μg/L)	Indoor exposure groundwater conc., noncarcinogen (μg/L)	Risk-based indoor exposure groundwater conc., (μg/L)	Pure component water solubility, S (μg/L)	Final indoor exposure groundwater conc., (μg/L)
1.21E+03	1.84E+05	1.21E+03	2.00E+05	1.21E+03

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	NA

MESSAGE SUMMARY BELOW:
MESSAGE: The values of Csource and Cbuilding on the INTERCALCS worksheet are based on unity and do not represent actual values.

END

DATA ENTRY SHEET
Parcel 18-333-02-023, Asl Limited Partnership Vapor Model Results

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
127184	7.26E+02	Tetrachloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-05	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

INTERMEDIATE CALCULATIONS SHEET
Parcel 18-333-02-023, Asl Limited Partnership Vapor Model Results

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	9,523	9.35E-03	3.98E-01	1.76E-04	1.50E-02	2.80E-05	7.74E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	2.89E+05	0.10	8.33E+01	1.50E-02	4.00E+02	2.31E+60	8.54E-06	2.47E+00	5.9E-06	6.0E-01

RESULTS SHEET
Parcel 18-333-02-023, Asl Limited Partnership Vapor Model Results

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	2.00E+05	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
6.0E-06	3.9E-03

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
Parcel 18-333-02-023, Asl Limited Partnership Vapor Model Results

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES: X

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES:

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
79016	8.80E+01	Trichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-05	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

INTERMEDIATE CALCULATIONS SHEET
Parcel 18-333-02-023, Asl Limited Partnership Vapor Model Results

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	8,520	5.62E-03	2.39E-01	1.76E-04	1.64E-02	3.45E-05	9.54E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	2.39E+02	0.10	8.33E+01	1.64E-02	4.00E+02	1.03E+55	1.05E-05	2.52E-03	1.1E-04	4.0E-02

RESULTS SHEET
Parcel 18-333-02-023, Asl Limited Partnership Vapor Model Results

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (μg/L)	Indoor exposure groundwater conc., noncarcinogen (μg/L)	Risk-based indoor exposure groundwater conc., (μg/L)	Pure component water solubility, S (μg/L)	Final indoor exposure groundwater conc., (μg/L)
8.78E+01	1.66E+04	8.78E+01	1.47E+06	8.78E+01

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	NA

MESSAGE SUMMARY BELOW:
MESSAGE: The values of Csource and Cbuilding on the INTERCALCS worksheet are based on unity and do not represent actual values.

MESSAGE: Risk/HQ or risk-based groundwater concentration is based on a route-to-route extrapolation.

END

DATA ENTRY SHEET
Parcel 18-333-02-023, Asl Limited Partnership Vapor Model Results

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (µg/L)	Chemical
79016	8.80E+01	Trichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (°C)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	13	5

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-05	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

INTERMEDIATE CALCULATIONS SHEET
Parcel 18-333-02-023, Asl Limited Partnership Vapor Model Results

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	9.98E-08	0.998	9.96E-08	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	8,520	5.62E-03	2.39E-01	1.76E-04	1.64E-02	3.45E-05	9.54E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	2.11E+04	0.10	8.33E+01	1.64E-02	4.00E+02	1.03E+55	1.05E-05	2.22E-01	1.1E-04	4.0E-02

RESULTS SHEET
Parcel 18-333-02-023, Asl Limited Partnership Vapor Model Results

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.47E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
1.0E-05	5.3E-03

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based groundwater concentration is based on a route-to-route extrapolation.

END

Appendix B
Site-specific Utility and Construction Worker Clean-up Standards Derivations

Table 1

Site-specific Utility and Construction Worker Clean-up Standards (Type 5 RRS)

Parameter	CAS No.	RRS Type 5 Soil		RRS Type 5 Groundwater	
		Construction Worker (mg/kg)	Utility Worker (mg/kg)	Construction Worker (mg/L)	Utility Worker (mg/L)
VOCs					
Acetone	67-64-1	145,576	1,039,832	84.3	602
2-butanone	78-93-3	43,685	312,037	14.3	102
1,1-Dichloroethane	75-34-3	13,037	3,725	12.7	3.62
1,1-dichloroethene	75-35-4	592	4,229	0.577	4.12
cis-1,2-dichloroethene	156-59-2	3,097	NA	12.8	91.3
trans-1,2-dichloroethene	156-60-5	231	1,648	0.174	1.24
Tetrachloroethylene	127-18-4	214	61.0	0.286	0.082
Trichloroethelene	79-01-06	1,206	345	1.02	0.290
Vinyl Chloride	75-01-4	77.5	27	0.27	0.097

Table
Type 5 Risk Reduction Standards for Soil

Parameter		RfD_o (mg/kg-d)	RfD_i (mg/kg-d)	CSF_o $(mg/kg\text{-}d)^{-1}$	CSF_i $(mg/kg\text{-}d)^{-1}$	WOE	Construction Worker Calculated Goal (Nonc)	Construction Worker Calculated Goal (Carc)	Construction Worker Type 5 RRSs	Utility Worker Calculated Goal (Nonc)	Utility Worker Calculated Goal (Carc)	Utility Worker Type 5 RRSs
VOCs												
Acetone	v	9.00E-01	8.90E+00	NA	NA	ND	145,576	NA	145,576	1,039,832	NA	1,039,832
2-butanone	v	6.00E-01	1.43E+00	NA	NA	NA	43,685	NA	43,685.2	312,037	NA	312,037
1,1-Dichloroethane	v	2.00E-01	NA	5.70E-03	5.60E-03	C	61,939	13037.27	13,037.3	442,424	3724.94	3,725
1,1-dichloroethene	v	5.00E-02	5.70E-02	NA	NA	C	592	NA	592.1	4,229	NA	4,229
cis-1,2-dichloroethene	v	1.00E-02	NA	NA	NA	NA	3,097	NA	3,097.0	22,121	NA	NA
trans-1,2-dichloroethene	v	2.00E-02	1.71E-02	NA	NA	NA	231	NA	230.8	1,648	NA	1,648
Tetrachloroethylene	v	1.00E-02	7.70E-02	5.40E-01	2.07E-02	ND	779	213.67	213.7	5,561	61.05	61
Trichloroethylene	v	NA	NA	5.90E-03	7.00E-03	ND	NA	1206.14	1,206.1	NA	344.61	345
Vinyl Chloride	v	3.00E-03	2.85E-02	7.20E-01	1.54E-02	A	78	93.15	77.5	554	26.62	27

WOE = Weight of Evidence

Sourrce: Regional Secreening Level (RSL) Chemical-Specific Parameters Supporting Table November 2010. USEPA.

NA = Not available

Noncarcinogens:

$$C = \frac{HI*BW*AT*365\ days/year}{EF*ED*[(1/RfD_o*CF*IR)+(1/RfD_i*IR_a*(1/VF+1/PEF)]}$$

Carcinogens:

$$C = \frac{TR*BW*AT*365\ days/year}{EF*ED*[(CSF_o*IR*CF)+(CSF_i*IR_a*(1/VF+1/PEF)]}$$

where:	Construction Worker		Utility Worker
HI (Hazard Index)	1		1
BW = Body Weight (kg), adult	70		70
AT = Averaging Time (years), (adult/carc)	70		70
AT = Averaging Time (years), (adult/nonc)	1		25
EF = Exposure Frequency (days/year)	250		35
ED = Exposure Duration (years), adult	1		25
RfD_o = Oral Reference Dose	chemical-specific		chemical-specific
IR = Ingestion Rate (mg/day), adult	330		330
TR = Target Risk	1.00E-05	1.00E-04	1.00E-05
CSF_o = Oral Cancer Slope Factor	chemical-specific		chemical-specific
IR_a = Air Inhalation Rate (m^3/day)(adult)	20		20
1/PEF = Inv of Particulate Emission Factor (kg/m^3)	2.15983E-10		2.15983E-10
CF = Conversion Factor (kg/mg)	1.00E-06		1.00E-06
1/VF = Volatilization Factor (kg/m^3)	chemical-specific		chemical-specific
RfD_i = Inhalation Reference Dose	chemical -specific		chemical -specific
CSF_i = Inhalation Slope Factor	chemical -specific		chemical -specific

Type 5 Groundwater Risk Reduction Standards

Parameter	RfDo (mg/kg-d)	RfDi (mg/kg-d)	CSFo (mg/kg-d)-1	CSFi (mg/kg-d)-1	WOE		Calculated Goal (Nonc) Construction Worker (mg/L)	Calculated Goal (Carc) Construction Worker (mg/L)	Type 5 GW RRS Construction Worker (mg/L)	Calculated Goal (Nonc) Utility Worker (mg/L)	Calculated Goal (Carc) Utility Worker (mg/L)	Type 5 GW RRS Utility Worker (mg/L)
VOCs												
Acetone	9.00E-01	8.90E+00	NA	NA	ND	v	84.3	NA	84.3	602	NA	602
2-butanone	6.00E-01	1.43E+00	NA	NA	NA	v	14.3	NA	14.3	102	NA	102
1,1-Dichloroethane	2.00E-01	NA	5.70E-03	5.60E-03	C	v	256	12.7	12.7	1,825	3.62	3.62
1,1-Dichloroethene	5.00E-02	5.70E-02	NA	NA	C	v	0.577	NA	0.577	4.12	NA	4.12
Cis-1,2-Dichloroethene	1.00E-02	NA	NA	NA	NA	v	12.8	NA	12.8	91.3	NA	91.3
Trans--1,2-Dichloroethene	2.00E-02	1.71E-02	NA	NA	NA	v	0.174	NA	0.174	1.24	NA	1.24
Tetrachloroethylene	1.00E-02	7.70E-02	5.40E-01	2.07E-02	ND	v	0.741	0.286	0.286	5.29	0.082	0.082
Trichloroethylene	NA	NA	5.90E-03	7.00E-03	ND	v	NA	1.02	1.02	NA	0.290	0.290
Vinyl Chloride	3.00E-03	2.85E-02	7.20E-01	1.54E-02	A	v	0.271	0.338	0.271	1.93	0.097	0.097

v= volatile compound

units = mg/L

Sourrce: Regional Secreening Level (RSL) Chemical-Specific Parameters Supporting Table November 2010. USEPA.

NA = Not available

WOE = Weight of evidence

Noncarcinogens:

$$C = \frac{HI*BW*AT*365\ days/year}{EF*ED*[(1/RfD_o*IR_w) + (1/RfD_i*K*IR_a)]}$$

Carcinogens:

$$C = \frac{TR*BW*AT*365\ days/year}{EF*ED*[(CSF_o*IR_w)+(CSFi*K*IRa)]}$$

where:	Construction Worker	Utility Worker	
HI (Hazard Index)	1		1
BW = Body Weight (kg), adult	70		70
AT = Averaging Time (years), (adult/carc)	70		70
AT = Averaging Time (years), (adult/nonc)	1		25
EF = Exposure Frequency (days/year)	250		35
ED = Exposure Duration (years), adult	1		25
RfD_o = Oral Reference Dose	Chemical-specific		Chemical-specific
IRw = Ingestion Rate of Water (L/day), adult	0.08		0.08
K = Volatilization Factor (unitless)	0.5		0.5
IRa = Air Inhalation Rate (m3/day)(adult)	20		20
TR = Target Risk (unitles)	1.00E-05	1.00E-04	1.00E-05

Table
Soil-to-Air Volatilization Factor

Parameter		Di (cm^2/sec)	H' unitless	HLC (atm-m^3/mol)	Koc (cm^3/g)	VF (m^3/kg)
VOCs						
Acetone	v	1.059E-01	1.431E-03	3.500E-05	2.364E+00	6.70E+03
2-butanone	v	9.144E-02	2.326E-03	5.690E-05	4.510E+00	7.82E+03
1,1-Dichloroethane	v	8.364E-02	2.298E-01	5.620E-03	3.182E+01	2.11E+03
1,1-Dichloroethene	v	8.364E-02	2.298E-01	5.620E-03	3.182E+01	2.11E+03
cis-1,2-dichloroethene	v	7.360E-02	1.670E-01	4.073E-03	3.550E+01	2.83E+03
trans-1,2-dichloroethene	v	8.761E-02	1.668E-01	4.080E-03	3.960E+01	2.74E+03
Tetrachloroethylene	v	5.047E-02	7.236E-01	1.770E-02	9.494E+01	2.64E+03
Trichloroethylene	v	6.866E-02	4.027E-01	9.850E-03	6.070E+01	2.44E+03
Vinyl Chloride	v	1.071E-01	1.137E+00	2.780E-02	2.173E+01	5.81E+02

Sourrce: Regional Secreening Level (RSL) Chemical-Specific Parameters Supporting Table November 2010. USEPA.

Derivation Of VF Values (Soil-to-Air Volatilization Factor):

$$VF(m^3/kg) = \frac{(LS \times V \times DH)}{A} \times \frac{(p \times a \times T)^{1/2}}{(2 \times D_{ei} \times E \times K_{as} \times 10^{-3}\ kg/g)}$$

where:

LS = length of side of contaminated area (m):	45
V = wind speed in mixing zone (m/s):	2.25
DH = diffusion height (m):	2
A = area of contamination (cm^2)	2.03E+07
p = pi:	3.14159265
a = (cm^2/s):	$(D_{ei} \times E)/(E + (rs \times ((1-E)/K_{as})))$
T = exposure interval (s), industrial:	7.88E+08
r_s = density of soil solids (g/cm^3):	2.65
OC = soil organic carbon content fraction (unitless):	0.02
D_{ei} = effective diffusivity (cm^2/s):	$D_i \times E^{0.33}$
D_i = molecular diffusivity (cm^2/s):	chemical-specific
E = total soil porosity (unitless):	0.35
K_{as} = soil/air partition coefficient (g soil/cm^3 air):	$(H/K_d) \times 41$
H = Henry's law constant (atm-m^3/mol):	chemical-specific
K_d = soil-water partition coefficient (cm^3/g):	$K_{oc} \times OC$
K_{oc} = organic carbon partition coefficient (cm^3/g):	chemical-specific

m = meter
s = second
cm = centimeter
g = gram =
atm-m3/mol = atmospheres-cubic meters per mole

Appendix C
Revised Draft Environmental Covenants

Included are revised draft Environmental Covenants for:

- Parcel 18-343-13-002; 2211 Savoy Drive, Chamblee, Georgia; John F. Rowan, Sr. Item IV Trust.
- Parcel 18-343-13-001; 4308 North Peachtree Road, Chamblee, Georgia; Georgia-Alabama Commercial Investments, LLC.
- Parcel 18-333-02-023; no street address; Asl Limited Partnership.

There is a redline copy, and a copy with the redlines incorporated, for each draft Environmental Covenant so the changes made can be easily identified.

Parcel 18-343-13-002; 2211 Savoy Drive, Chamblee, Georgia; John F. Rowan, Sr. Item IV Trust

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE
Suite 1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor: The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
P.O. Box 82
Rancho Santa Fe, CA 92067

Grantee/Holder: <Company Name or individual(s)>
<Mailing address>

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1152 East Tower
Atlanta, GA 30334

Parties with interest in the Property: <Company Name or individual(s)>
<Mailing address>

Property:

The property subject to this Environmental Covenant is the Fashion Care/Executive Care Tract (hereinafter "Property"), located at 2211 Savoy Drive in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on November 7, 2003 from Business Associates, Inc., a Georgia Corporation to John F. Rowan recorded in Deed Book 15562, Page 660, DeKalb County Records. The area is located in Land Lot 343 of the 18th District of DeKalb County, Georgia. The property consists of approximately 0.61 acres of property developed with a single, one-story building that contains a drycleaner on the west side and a restaurant on the east side. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-343-13-002 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document[s]:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.

These documents are available at the following locations:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by the Trust of John F. Rowan, Sr., its successors and assigns, <name of Grantee/Holder>, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the Property. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene, vinyl chloride and 1,1-Dichloroethene have been detected in groundwater beneath the Property. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene and vinyl chloride have been detected in soil beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The institutional controls consist of no use of groundwater on the Property, and utility and construction worker protection requirements regarding impacted soil and groundwater in designated areas of the property. Engineering controls required for the Property are the implementation and maintenance of vapor mitigation measures beneath any existing enclosed structures on the Property and any enclosed structures constructed on the Property within the area indicated on attached Figure 1 and Figure 2. These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Grantor, the Trust of John F. Rowan, Sr. (hereinafter "Trust"), hereby binds Grantor, its successors and assigns to the activity and use restriction(s) for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the <name of Holder> and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq*., and the rules promulgated thereunder. Failure to timely enforce

compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from excising any authority under applicable law.

The Trust makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of <name of Holder>, EPD, Trust and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, <name of Holder> or its successors and assigns, the Trust or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, apply for building permit(s), or propose any subsurface site work in the environmentally impacted areas shown on Figures 1 and 2 that would affect the Property

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant.

4. Periodic Reporting. Annually, by no later than <date> following the effective date of this Environmental Covenant, the Owner shall submit to EPD an Annual Report as specified in the EPD approved Point of Compliance Monitoring Plan including: groundwater detection-monitoring report results, maintenance and inspection activities, certification of non-residential use of the Property, and documentation stating whether or not the activity and use limitations in this Environmental Covenant are being abided by.

5. Activity and Use Limitation(s). The Property shall be used only for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any residential use of the Property shall be prohibited unless soil and groundwater are remediated to residential RRS. A vapor mitigation system or barrier shall be installed and maintained with the construction of any enclosed structures until the HSRA regulated substances in soil and groundwater at the Property reach HSRA RRS.

6. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless HSRA regulated substances are treated to below HSRA residential RRS for groundwater.

   Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

7. Soil Limitation. Should intrusive activities within the area designated in Figure 1 as having regulated substances at concentrations greater than HSRA non-residential RRS be required, the extracted, impacted soil should be managed in accordance with all applicable local, state and federal rules and regulations governing the management of such material. Removed soil in this area should not be placed back into the excavation, but be properly characterized for disposal in accordance with 40 CFR Part 261(specifically 40 CFR Parts 261.20-24, regarding characteristic waste) and transported and disposed of at an appropriate disposal facility. The excavation should be backfilled with clean fill material and recapped with an impervious surface. Recapping of the area of excavation would not be necessary if all the impacted soil in the excavation area is removed to below applicable HSRA residential RRS to the water table for the regulated chemicals of concern noted in the "Description of Contamination and Corrective Action" above.

8. Utility Worker & Construction Worker Protection. HSRA regulated chemicals have been identified in soil and groundwater above calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and/or utility workers. The following regulated chemicals have been identified in soil above calculated risk-based threshold levels for the protection of construction workers and/or utility workers as indicated.

Soil - HSRA Type 5 RRS for the Protection of Construction Workers and/or Utility Workers			
HSRA regulated chemical	Construction Worker Threshold Concentration (mg/kg)	Utility Worker Threshold Concentration (mg/kg)	Comments
PCE	214	61	

The following regulated chemicals have been identified in groundwater above calculated risk-based threshold levels for the protection of construction workers and/or utility workers as indicated. The area(s) with groundwater concentrations above these levels is identified on attached Figure #. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade.

Groundwater - HSRA Type 5 RRS for the Protection of Construction Workers and/or Utility Workers			
HSRA regulated chemical	Construction Worker Threshold Concentration (mg/L)	Utility Worker Threshold Concentration (mg/L)	Comments
PCE	0.286	0.082	
Trichloroethene	1.02	0.290	
Cis-1,2-dichloroethene	12.8	91.3	This chemical was identified above the construction worker threshold only.
Trans-1,1-dichloroethene	0.174	1.24	
Vinyl chloride	0.27	0.097	

Prior to conducting construction or subsurface utility work that may result in exposure to soil or groundwater in the designated areas, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted soil or groundwater performed in the execution of work should be done in accordance with Items 7 and 6 above, respectively.

9. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

10. Right of Access. In addition to any rights already possessed by EPD and/or the <name of Holder>, the Owner shall allow authorized representatives of EPD and/or <name of Holder> the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

11. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) <name of Holder>, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

12. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

13. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

14. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;

c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 10 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1154 East Tower
Atlanta, GA 30334

<name and mailing address of Holder>

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

The Trust of John F. Rowan, Sr.

_____
[Name of Signatory]
[Title]

Dated: _____

<NAME OF HOLDER>

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA

ENVIRONMENTAL PROTECTION DIVISION

_____

[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

Exhibit A
Legal Description

All that tract or parcel of land lying and being in Land Lot 343 of the 18th District of DeKalb County, Georgia and being more particularly described as follows: Beginning at an iron pin on the westerly line of the right of way of North Peachtree Road (which line is 35 feet westerly from the center line of said road) and on the line dividing Land Lots 343 and 334; and running thence along said Land Lot line South, 89 degrees 53 minutes West, 213 feet to an iron pin; thence North 22 degrees 15 minutes West, 158.85 feet to an iron pin; thence North 15 degrees 11 minutes East, 120 feet to an iron pin on the southerly line of the right of way of I-285; thence South 74 degrees 49 minutes East along the southerly right of way of I-285, 100 feet to an iron pin; thence South 15 degrees 11 minutes West, 990 feet to an iron pin; thence South 23 degrees 25 minutes 30 seconds East, 111.6 feet to an iron pin; thence South 60 degrees 44 minutes East, 60 feet to an iron pin; thence North 89 degrees 53 minutes East, 75 feet to an iron pin on the westerly right of way of North Peachtree Road; thence along said right of way South 9 degrees 17 minutes 30 seconds West, 18 feet to the POINT OF BEGINNING. According to a Plat by Earnest L. Boggus dated June 14, 1968, revised April 10, 1969, revised May 8, 1970. Subject to covenants, easements and restrictions of record and to utility easements.

This is the same property conveyed by Business Associates, Inc. to CJH Capital Corporation by Warranty Deed dated September 21, 1987, recorded in Deed Book 5954, page 189, Clerk's Office, DeKalb County Superior Court.

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE
Suite 1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor: The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
P.O. Box 82
Rancho Santa Fe, CA 92067

Grantee/Holder: <Company Name or individual(s)>
<Mailing address>

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1152 East Tower
Atlanta, GA 30334

Parties with interest in the Property: <Company Name or individual(s)>
<Mailing address>

Property:

The property subject to this Environmental Covenant is the Fashion Care/Executive Care Tract (hereinafter "Property"), located at 2211 Savoy Drive in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on November 7, 2003 from Business Associates, Inc., a Georgia Corporation to John F. Rowan recorded in Deed Book 15562, Page 660, DeKalb County Records. The area is located in Land Lot 343 of the 18th District of DeKalb County, Georgia. The property consists of approximately 0.61 acres of property developed with a single, one-story building that contains a drycleaner on the west side and a restaurant on the east side. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-343-13-002 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document[s]:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.

These documents are available at the following locations:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by the Trust of John F. Rowan, Sr., its successors and assigns, <name of Grantee/Holder>, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the Property. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene, vinyl chloride and 1,1-Dichloroethene have been detected in groundwater beneath the Property. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene and vinyl chloride have been detected in soil beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The institutional controls consist of no use of groundwater on the Property, and utility and construction worker protection requirements regarding impacted soil and groundwater in designated areas of the property. Engineering controls required for the Property are the implementation and maintenance of vapor mitigation measures beneath any existing enclosed structures on the Property and any enclosed structures constructed on the Property within the area indicated on attached Figure 1 and Figure 2. These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Deleted: Vinyl chloride, Dichloroethylene, N.O.S., Tetrachloroethene, and Trichloroethene in soil and groundwater, and trans- 1, 2-Dichloroethene in soil occurred on the Property. Vinyl chloride, Dichloroethylene, N.O.S., Tetrachloroethene, Trichloroethene and trans- 1, 2-Dichloroethene (collectively, "Constituents of Concern, or "COI")

Deleted: The Corrective Action consists of the installation and maintenance of engineering controls (a vapor collection system will be installed beneath the existing building) and institutional controls (limit use to non-residential activities) to protect human health and the environment.

Grantor, the Trust of John F. Rowan, Sr. (hereinafter "Trust"), hereby binds Grantor, its successors and assigns to the activity and use restriction(s) for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the <name of Holder> and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq*., and the rules promulgated thereunder. Failure to timely enforce

compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from excising any authority under applicable law.

The Trust makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of <name of Holder>, EPD, Trust and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, <name of Holder> or its successors and assigns, the Trust or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, apply for building permit(s), or propose any subsurface site work in the environmentally impacted areas shown on Figures 1 and 2 that would affect the Property.

Deleted: . [WHAT ARE THE LIMITATIONS ON "SITE WORK" REGARDING NOTIFICATION?]

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant.

4. Periodic Reporting. Annually, by no later than <date> following the effective date of this Environmental Covenant, the Owner shall submit to EPD an Annual Report as specified in the EPD approved Point of Compliance Monitoring Plan including: groundwater detection-monitoring report results, maintenance and inspection activities, certification of non-residential use of the Property, and documentation stating whether or not the activity and use limitations in this Environmental Covenant are being abided by.

5. Activity and Use Limitation(s). The Property shall be used only for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any residential use of the Property shall be prohibited unless soil and groundwater are remediated to residential RRS. A vapor mitigation system or barrier shall be installed and maintained with the construction of any enclosed structures until the HSRA regulated substances in soil and groundwater at the Property reach HSRA RRS.

Deleted: prior to and during the

Deleted: COI

Deleted: residential risk reduction standards

6. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless HSRA regulated substances are treated to below HSRA residential RRS for groundwater.

Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

Deleted: The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless COI are treated to below HSRA residential risk reduction standards.

Deleted: The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless HSRA regulated substances are treated to below HSRA residential RRS for groundwater.

7. Soil Limitation. Should intrusive activities within the area designated in Figure 1 as having regulated substances at concentrations greater than HSRA non-residential RRS be required, the extracted, impacted soil should be managed in accordance with all applicable local, state and federal rules and regulations governing the management of such material. Removed soil in this area should not be placed back into the excavation, but be properly characterized for disposal in accordance with 40 CFR Part 261(specifically 40 CFR Parts 261.20-24, regarding characteristic waste) and transported and disposed of at an appropriate disposal facility. The excavation should be backfilled with clean fill material and recapped with an impervious surface. Recapping of the area of excavation would not be necessary if all the impacted soil in the excavation area is removed to below applicable HSRA residential RRS to the water table for the regulated chemicals of concern noted in the "Description of Contamination and Corrective Action" above.

8. Utility Worker & Construction Worker Protection. HSRA regulated chemicals have been identified in soil and groundwater above calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and/or utility workers. The following regulated chemicals have been identified in soil above calculated risk-based threshold levels for the protection of construction workers and/or utility workers as indicated.

Soil - HSRA Type 5 RRS for the Protection of Construction Workers and/or Utility Workers			
HSRA regulated chemical	Construction Worker Threshold Concentration (mg/kg)	Utility Worker Threshold Concentration (mg/kg)	Comments
PCE	214	61	

The following regulated chemicals have been identified in groundwater above calculated risk-based threshold levels for the protection of construction workers and/or utility workers as indicated. The area(s) with groundwater concentrations above these levels is identified on attached Figure #. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade.

Groundwater - HSRA Type 5 RRS for the Protection of Construction Workers and/or Utility Workers			
HSRA regulated chemical	Construction Worker Threshold Concentration (mg/L)	Utility Worker Threshold Concentration (mg/L)	Comments
PCE	0.286	0.082	
Trichloroethene	1.02	0.290	
Cis-1,2-dichloroethene	12.8	91.3	This chemical was identified above the construction worker threshold only.
Trans-1,1-dichloroethene	0.174	1.24	
Vinyl chloride	0.27	0.097	

Prior to conducting construction or subsurface utility work that may result in exposure to soil or groundwater in the designated areas, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted soil or groundwater performed in the execution of work should be done in accordance with Items 7 and 6 above, respectively.

9. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

Deleted: Permanent markers on each side of the Property shall be installed and maintained that delineate the restricted area as specified in Section 391-3-19-.07(10) of the Rules. Disturbance or removal of such markers is prohibited.

10. Right of Access. In addition to any rights already possessed by EPD and/or the <name of Holder>, the Owner shall allow authorized representatives of EPD and/or <name of Holder> the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

11. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) <name of Holder>, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

12. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

Deleted: Risk Reduction Standard

Deleted: s

13. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

14. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;

c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 10 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1154 East Tower
Atlanta, GA 30334

<name and mailing address of Holder>

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

The Trust of John F. Rowan, Sr.

_____
[Name of Signatory]
[Title]

Dated: _____

<NAME OF HOLDER>

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA

ENVIRONMENTAL PROTECTION DIVISION

_____

[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

Exhibit A
Legal Description

All that tract or parcel of land lying and being in Land Lot 343 of the 18th District of DeKalb County, Georgia and being more particularly described as follows: Beginning at an iron pin on the westerly line of the right of way of North Peachtree Road (which line is 35 feet westerly from the center line of said road) and on the line dividing Land Lots 343 and 334; and running thence along said Land Lot line South, 89 degrees 53 minutes West, 213 feet to an iron pin; thence North 22 degrees 15 minutes West, 158.85 feet to an iron pin; thence North 15 degrees 11 minutes East, 120 feet to an iron pin on the southerly line of the right of way of I-285; thence South 74 degrees 49 minutes East along the southerly right of way of I-285, 100 feet to an iron pin; thence South 15 degrees 11 minutes West, 990 feet to an iron pin; thence South 23 degrees 25 minutes 30 seconds East, 111.6 feet to an iron pin; thence South 60 degrees 44 minutes East, 60 feet to an iron pin; thence North 89 degrees 53 minutes East, 75 feet to an iron pin on the westerly right of way of North Peachtree Road; thence along said right of way South 9 degrees 17 minutes 30 seconds West, 18 feet to the POINT OF BEGINNING. According to a Plat by Earnest L. Boggus dated June 14, 1968, revised April 10, 1969, revised May 8, 1970. Subject to covenants, easements and restrictions of record and to utility easements.

This is the same property conveyed by Business Associates, Inc. to CJH Capital Corporation by Warranty Deed dated September 21, 1987, recorded in Deed Book 5954, page 189, Clerk's Office, DeKalb County Superior Court.

Parcel 18-343-13-001; 4308 North Peachtree Road, Chamblee, Georgia; Georgia-Alabama Commercial Investments, LLC

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE
Suite 1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor: Georgia-Alabama Commercial Investments, LLC
2875 University Parkway
Lawrenceville, Georgia 30043

Grantee/Holder: <Company Name or individual(s)>
<Mailing address>

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1152 East Tower
Atlanta, GA 30334

Parties with interest in the Property: <Company Name or individual(s)>
<Mailing address>

Property:

The property subject to this Environmental Covenant is the EZ Serv Tract (hereinafter "Property"), located at 4308 North Peachtree Road, in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on May 9, 2007 from Metro Atlanta Commercial Properties, LLC to Georgia-Alabama Commercial Investments, LLC, recorded in Deed Book 19938, Page 88, DeKalb County Records. The area is located in Land Lot 343 of the 18th District of DeKalb County, Georgia. The property consists of approximately 0.69 acres of property developed with a single, one-story building that contains a gas station (UST Facility ID No. 900341*1, EZ Serve Site). A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-343-13-001 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.

This document is available at the following location:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by Georgia-Alabama Commercial Investments, LLC, its successors and assigns, <name of Grantee/Holder>, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the adjacent property; 2211 Savoy Drive, Chamblee Georgia. PCE, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene and vinyl chloride have been detected in groundwater beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of institutional controls to protect human health and the environment. The institutional controls consist of no use of groundwater on the Property. These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Grantor, Georgia-Alabama Commercial Investments, LLC (hereinafter "GACI"), hereby binds Grantor, its successors and assigns to the activity and use restrictions for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the <name of Holder> and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from excising any authority under applicable law.

GACI makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of <name of Holder>, EPD, GACI and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, <name of Holder> or its successors and assigns, GACI or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, apply for building permit(s), or propose any subsurface site work expected to intersect the water table in the impacted area shown on Figure 1 that would affect the Property.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant.

4. Activity and Use Limitation(s). The Property shall be used only for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any residential use of the Property shall be prohibited unless groundwater is remediated to residential RRS.

5. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless COI are treated to below HSRA residential risk reduction standards.

   Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all

applicable local, state and federal rules and regulations governing the management of such material.

6. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

7. Right of Access. In addition to any rights already possessed by EPD and/or the <name of Holder>, the Owner shall allow authorized representatives of EPD and/or <name of Holder> the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

8. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) <name of Holder>, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

9. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

10. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

11. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;

c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 10 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1154 East Tower
Atlanta, GA 30334

<name and mailing address of Holder>

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

Georgia-Alabama Commercial Investments, LLC

_____
[Name of Signatory]
[Title]

Dated: _____

<NAME OF HOLDER>

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA

ENVIRONMENTAL PROTECTION DIVISION

_____

[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

Exhibit A
Legal Description

ALL THAT TRACT OR PARCEL OF LAND lying and being in Land Lot 343 of the 18th District, DeKalb County, Georgia, according to an ALTA/ACSM Land Title Survey for Metro Atlanta Commercial Properties, LLC, Fidelity National Bank and Lawyers Title Insurance Corporation prepared by Busbee Land Surveying Co., Inc. by Ricky C. Busbee (G.R.L.S., No. 2497), dated December 14, 1997, as last revised March 21, 2003, and being more particularly described according to said survey as follows:

BEGINNING at a point marked by an one-half inch rebar found located on the westerly right-of-way line of North Peachtree Road (70' R/W), said point being located 18.00 feet in a generally northeasterly direction along said right-of-way line of North Peachtree Road from its intersection with the Land Lot Line common to Land Lots 334 and 343, leaving the aforesaid right-of-way line of North Peachtree Road, run thence South 89 degrees 53 minutes 00 seconds West a distance of 75.00 feet to a one-half inch rebar found; run thence North 60 degrees 44 minutes 00 seconds West a distance of 60.00 feet to a one-half inch rebar found; run thence North 23 degrees 25 minutes 30 seconds West a distance 111.60 feet to an iron pin placed; run thence North 15 degrees 11 minutes 06 seconds East a distance of 90.00 feet to a point located on the southwesterly right-of-way line of I-285 Access Road Circumferential Highway (R/W Varies); run thence along the aforesaid right-of-way line South 74 degrees 49 minutes 00 seconds East a distance of 112.00 feet to an iron pin placed located at the northwesternmost point of a mitered intersection oft the aforesaid right-of-way line of I-285 Access Road Circumferential Highway and the aforesaid westerly right-of-way line of North Peachtree Road; run thence along said miter South 23 degrees 23 minutes 55 seconds East a distance of 129.70 feet to a point marked by an iron pin placed, said point being the southeasternmost point of the aforesaid mitered intersection and being located on the aforesaid right-of-way line of North Peachtree Road; run thence along the aforesaid right-of-way line South 09 degrees 17 minutes 30 seconds West a distance of 71.00 feet to a point marked by a one-half inch rebar found, said point being the true place or point of BEGINNING.

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE
Suite 1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor: Georgia-Alabama Commercial Investments, LLC
2875 University Parkway
Lawrenceville, Georgia 30043

Grantee/Holder: <Company Name or individual(s)>
<Mailing address>

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1152 East Tower
Atlanta, GA 30334

Parties with interest in the Property: <Company Name or individual(s)>
<Mailing address>

Property:

The property subject to this Environmental Covenant is the EZ Serv Tract (hereinafter "Property"), located at 4308 North Peachtree Road, in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on May 9, 2007 from Metro Atlanta Commercial Properties, LLC to Georgia-Alabama Commercial Investments, LLC, recorded in Deed Book 19938, Page 88, DeKalb County Records. The area is located in Land Lot 343 of the 18th District of DeKalb County, Georgia. The property consists of approximately 0.69 acres of property developed with a single, one-story building that contains a gas station (UST Facility ID No. 900341*1, EZ Serve Site). A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-343-13-001 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.

This document is available at the following location:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by Georgia-Alabama Commercial Investments, LLC, its successors and assigns, <name of Grantee/Holder>, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the adjacent property; 2211 Savoy Drive, Chamblee Georgia. PCE, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene and vinyl chloride have been detected in groundwater beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of institutional controls to protect human health and the environment. The institutional controls consist of no use of groundwater on the Property. These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Deleted: Vinyl chloride, Dichloroethylene, N.O.S., Tetrachloroethene, and Trichloroethene in soil and groundwater, and trans- 1, 2-Dichloroethene in soil occurred on the Property. Vinyl chloride, Dichloroethylene, N.O.S., Tetrachloroethene, Trichloroethene and trans- 1, 2-Dichloroethene (collectively, "Constituents of Concern," or "COI")

Grantor, Georgia-Alabama Commercial Investments, LLC (hereinafter "GACI"), hereby binds Grantor, its successors and assigns to the activity and use restrictions for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the <name of Holder> and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq*., and the rules promulgated thereunder. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from excising any authority under applicable law.

GACI makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of <name of Holder>, EPD, GACI and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, <name of Holder> or its successors and assigns, GACI or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, apply for building permit(s), or propose any subsurface site work expected to intersect the water table in the impacted area shown on Figure 1 that would affect the Property.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant.

4. Activity and Use Limitation(s). The Property shall be used only for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any residential use of the Property shall be prohibited unless groundwater is remediated to residential RRS.

5. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless COI are treated to below HSRA residential risk reduction standards.

   Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all

Deleted: n

Deleted: A vapor barrier shall be installed and maintained prior to and during the construction of any enclosed structures until COI in groundwater at the Property reach HSRA residential risk reduction standards.

applicable local, state and federal rules and regulations governing the management of such material.

6. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

Deleted: Permanent markers on each side of the Property shall be installed and maintained that delineate the restricted area as specified in Section 391-3-19-.07(10) of the Rules. Disturbance or removal of such markers is prohibited.

7. Right of Access. In addition to any rights already possessed by EPD and/or the <name of Holder>, the Owner shall allow authorized representatives of EPD and/or <name of Holder> the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

8. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) <name of Holder>, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

9. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq.*

Deleted: isk Reduction Standards

10. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

11. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;

c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 10 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1154 East Tower
Atlanta, GA 30334

<name and mailing address of Holder>

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

Georgia-Alabama Commercial Investments, LLC

_____
[Name of Signatory]
[Title]

Dated: _____

<NAME OF HOLDER>

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA

ENVIRONMENTAL PROTECTION DIVISION

_____

[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

Exhibit A
Legal Description

ALL THAT TRACT OR PARCEL OF LAND lying and being in Land Lot 343 of the 18th District, DeKalb County, Georgia, according to an ALTA/ACSM Land Title Survey for Metro Atlanta Commercial Properties, LLC, Fidelity National Bank and Lawyers Title Insurance Corporation prepared by Busbee Land Surveying Co., Inc. by Ricky C. Busbee (G.R.L.S., No. 2497), dated December 14, 1997, as last revised March 21, 2003, and being more particularly described according to said survey as follows:

BEGINNING at a point marked by an one-half inch rebar found located on the westerly right-of-way line of North Peachtree Road (70' R/W), said point being located 18.00 feet in a generally northeasterly direction along said right-of-way line of North Peachtree Road from its intersection with the Land Lot Line common to Land Lots 334 and 343, leaving the aforesaid right-of-way line of North Peachtree Road, run thence South 89 degrees 53 minutes 00 seconds West a distance of 75.00 feet to a one-half inch rebar found; run thence North 60 degrees 44 minutes 00 seconds West a distance of 60.00 feet to a one-half inch rebar found; run thence North 23 degrees 25 minutes 30 seconds West a distance 111.60 feet to an iron pin placed; run thence North 15 degrees 11 minutes 06 seconds East a distance of 90.00 feet to a point located on the southwesterly right-of-way line of I-285 Access Road Circumferential Highway (R/W Varies); run thence along the aforesaid right-of-way line South 74 degrees 49 minutes 00 seconds East a distance of 112.00 feet to an iron pin placed located at the northwesternmost point of a mitered intersection oft the aforesaid right-of-way line of I-285 Access Road Circumferential Highway and the aforesaid westerly right-of-way line of North Peachtree Road; run thence along said miter South 23 degrees 23 minutes 55 seconds East a distance of 129.70 feet to a point marked by an iron pin placed, said point being the southeasternmost point of the aforesaid mitered intersection and being located on the aforesaid right-of-way line of North Peachtree Road; run thence along the aforesaid right-of-way line South 09 degrees 17 minutes 30 seconds West a distance of 71.00 feet to a point marked by a one-half inch rebar found, said point being the true place or point of BEGINNING.

Parcel 18-333-02-023; no street address; Asl Limited Partnership

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE
Suite 1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor: ASL Limited Partnership
1515 S. Federal Hwy. 300
Boca Raton, FL 33432-7451

Grantee/Holder: <Company Name or individual(s)>
<Mailing address>

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1152 East Tower
Atlanta, GA 30334

Parties with interest in the Property: <Company Name or individual(s)>
<Mailing address>

Property:

The property subject to this Environmental Covenant is the ASL Limited Partnership Tract (hereinafter "Property"), located on the 4200 – 4300 Block of North Shallowford Road, in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on October 12, 1982 from ARA Associates – Shangri-La, Ltd., a New Jersey limited partnership to ASL Limited Partnership recorded in Deed Book 4673, Page 272, DeKalb County Records. The area is located in Land Lot 334 of the 18th District of DeKalb County, Georgia. The property consists of approximately 10.45 acres of undeveloped property. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-333-02-023 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.

This document is available at the following location:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by ASL Limited Partnership, its successors and assigns, <name of Grantee/Holder>, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the adjacent property; 2211 Savoy Drive, Chamblee Georgia. PCE, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene and vinyl chloride have been detected in groundwater beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The institutional controls consist of no use of groundwater on the Property, and utility and construction worker protection requirements regarding impacted groundwater in designated area of the property. Engineering controls required for the Property are the implementation and maintenance of vapor mitigation measures beneath any existing enclosed structures and any enclosed structures constructed within the area indicated on attached Figure 1. These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Grantor, ASL Limited Partnership (hereinafter "ASL"), hereby binds Grantor, its successors and assigns to the activity and use restrictions for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the <name of Holder> and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq*., and the rules promulgated thereunder. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person

shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from excising any authority under applicable law.

ASL makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of <name of Holder>, EPD, ASL and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, <name of Holder> or its successors and assigns, ASL or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, apply for building permit(s), or propose any subsurface site work in the environmentally impacted area shown on Figure 1 that would affect the Property.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant.

4. Activity and Use Limitation(s). The Property shall be used only for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any residential use of the Property shall be prohibited unless groundwater is remediated to residential RRS. A vapor mitigation system or barrier shall be installed and maintained with the construction of any enclosed structures within the area indicated on attached Figure 1 until the HSRA regulated substances in groundwater at the Property reach HSRA RRS.

5. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless COI are treated to below HSRA residential risk reduction standards.

Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

6. Utility Worker & Construction Worker Protection. Levels of PCE have been identified in groundwater above 0.286 mg/L and 0.082 mg/L, the calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and utility workers, respectively. The area(s) with concentrations above these levels is identified on attached Figure 1. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade. Prior to conducting construction or subsurface utility work that may result in exposure to groundwater in the designated area, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted groundwater performed in the execution of work should be done in accordance with Item 5 above.

7. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

8. Right of Access. In addition to any rights already possessed by EPD and/or the <name of Holder>, the Owner shall allow authorized representatives of EPD and/or <name of Holder> the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

9. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) <name of Holder>, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

10. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

11. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

12. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 10 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1154 East Tower
Atlanta, GA 30334

<name and mailing address of Holder>

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

ASL Limited Partnership

_____
[Name of Signatory]
[Title]

Dated: _____

<NAME OF HOLDER>

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

Exhibit A
Legal Description

All that tract or parcel of land lying and being in Land Lots 333 and 334 of the 18th District of DeKalb County, Georgia, and being more particularly described as follows:

Starting at an iron pin at the intersection of the North line of Land Lot 334 and the Nortwesterly side of North Peachtree Road (70 foot right-of-way), running thence South 15 degrees 26 minutes West along the Northwest side of North Peachtree Road, 117.62 feet; thence South 24 degrees 59 minutes West along siad right-of-way, 97.22 feet to a point; thence South 32 degrees 49 minutes West along said right-of-way, 97.52 feet to a point; thence running South 40 degrees 46 minutes West along said right-of-way, 97.55 feet to a point; running thence South 48 minutes 24 minutes West along said right-of-way 82.79 feet to a point; thence North 48 degrees 29 minutes West 157.2 feet to a point in Nancy Creek; thence North 88 degrees 44 minutes 30 seconds West 435.3 feet to a point; thence North 1 degree 15 minutes 30 seconds West 78 feet to a point in Nancy Creek; thence North 70 degrees 5 minutes 30 seconds West 80.10 feet to a point in Nancy Creek; thence South 62 degrees 24 minutes 30-seconds West 73.50 feet to a point in Nancy Creek; thence north 66 degrees 25 minutes 30 seconds West 158.30 feet to a point in Nancy Creek; thence North 78 degrees 16 minutes West 585.0 feet to a point in Nancy Creek; thence South 70 degrees 55 minutes West 138.50 feet to a point in Nancy Creek; thence South 34 degrees 5 minutes West 118.40 feet to a point in Nancy Creek; thence South 28 degrees 55 minutes East 35.0 feet to a point; thence South 61 degrees 5 minutes West 194.4 feet to a point on the Easterly right-of-way of North Shallowford Road, said road being an 80 foot right-of-way; thence North 29 degrees 30 minutes West 98.54 feet to a point; thence North 25 degrees 59 minutes 30 seconds West 255.67 feet to a point; thence South 89 degrees 49 minutes East 2175.67 feet to a point on the Northwesterly side of North Peachtree Road and the point of beginning.

Less and except all that tract or parcel of land lying and being in Land Lot 334 of the 18th District, DeKalb County, Georgia, conveyed from ASL Limited Partnership to Carlton G. Chapman on December 23, 1988, recorded in Deed Book 5689 page 052, DeKalb County Records, and being more particularly described as follows:

TO FIND THE TRUE POINT OF BEGINNING, commence at an iron pin set at the intersection of the north line of Land Lot 334 and the northwesterly right-of-way of North Peachtree Road; running thence south 15 degrees 12 minutes 04 seconds west along said right-of-way a distance of 116.74 feet to an iron pin set; running thence south 24 degrees 38 minutes 05 seconds west a distance of 60.00 feet to an iron pin set and the TRUE POINT OF BEGINNING; from the TRUE POINT OF BEGINNING run thence along the northwesterly right-of-way of North Peachtree Road, south 24 degrees 38 minutes 05 seconds west a distance of 37.22 feet to an iron pin set; thence continuing along said right-of-way south 32 degrees 28 minutes 05 seconds west a distance of 978.52 feet to a point; running thence south 40 degrees 03 minutes 05 seconds west a distance of 82.79 feet to an iron pin set; running thence north 48 degrees 49 minutes 55 seconds west a distance of 157.20 feet to an iron pin set; running thence north 00 degrees 07 minutes 01 seconds west a distance of 141.34 feet to an iron pin set; running thence north 89 degrees 50 minutes 05 seconds east a distance of 311.32 feet to an iron pin set and the TRUE POINT OF BEGINNING. Said tract containing 1.151 acres as shown by plat of survey for Carl Chapman, prepared by Quadra-Tech, Inc., dated Decmember 12, 1986, being certified by Wallace Long Hambrick, Georgia Registered Land Surveyor No. 1375.

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE
Suite 1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor: ASL Limited Partnership
1515 S. Federal Hwy. 300
Boca Raton, FL 33432-7451

Grantee/Holder: <Company Name or individual(s)>
<Mailing address>

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1152 East Tower
Atlanta, GA 30334

Parties with interest in the Property: <Company Name or individual(s)>
<Mailing address>

Property:

The property subject to this Environmental Covenant is the ASL Limited Partnership Tract (hereinafter "Property"), located on the 4200 – 4300 Block of North Shallowford Road, in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on October 12, 1982 from ARA Associates – Shangri-La, Ltd., a New Jersey limited partnership to ASL Limited Partnership recorded in Deed Book 4673, Page 272, DeKalb County Records. The area is located in Land Lot 334 of the 18th District of DeKalb County, Georgia. The property consists of approximately 10.45 acres of undeveloped property. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-333-02-023 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.

This document is available at the following location:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by ASL Limited Partnership, its successors and assigns, <name of Grantee/Holder>, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the adjacent property; 2211 Savoy Drive, Chamblee Georgia. PCE, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene and vinyl chloride have been detected in groundwater beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The institutional controls consist of no use of groundwater on the Property, and utility and construction worker protection requirements regarding impacted groundwater in designated area of the property. Engineering controls required for the Property are the implementation and maintenance of vapor mitigation measures beneath any existing enclosed structures and any enclosed structures constructed within the area indicated on attached Figure 1. These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Deleted: Vinyl chloride, Dichloroethylene, N.O.S., Tetrachloroethene, and Trichloroethene in soil and groundwater, and trans- 1, 2-Dichloroethene in soil occurred on the Property. Vinyl chloride, Dichloroethylene, N.O.S., Tetrachloroethene, Trichloroethene and trans- 1, 2-Dichloroethene (collectively, "Constituents of Concern," or "COI")

Deleted: (limit use to non-residential activities)

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Grantor, ASL Limited Partnership (hereinafter "ASL"), hereby binds Grantor, its successors and assigns to the activity and use restrictions for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the <name of Holder> and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq*., and the rules promulgated thereunder. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person

shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from excising any authority under applicable law.

ASL makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of <name of Holder>, EPD, ASL and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, <name of Holder> or its successors and assigns, ASL or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, apply for building permit(s), or propose any subsurface site work in the environmentally impacted area shown on Figure 1 that would affect the Property.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant.

4. Activity and Use Limitation(s). The Property shall be used only for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any residential use of the Property shall be prohibited unless groundwater is remediated to residential RRS. A vapor mitigation system or barrier shall be installed and maintained with the construction of any enclosed structures within the area indicated on attached Figure 1 until the HSRA regulated substances in groundwater at the Property reach HSRA RRS.

5. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless COI are treated to below HSRA residential risk reduction standards.

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Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

6. Utility Worker & Construction Worker Protection. Levels of PCE have been identified in groundwater above 0.286 mg/L and 0.082 mg/L, the calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and utility workers, respectively. The area(s) with concentrations above these levels is identified on attached Figure 1. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade. Prior to conducting construction or subsurface utility work that may result in exposure to groundwater in the designated area, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted groundwater performed in the execution of work should be done in accordance with Item 5 above.

7. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

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8. Right of Access. In addition to any rights already possessed by EPD and/or the <name of Holder>, the Owner shall allow authorized representatives of EPD and/or <name of Holder> the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

9. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) <name of Holder>, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

10. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

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11. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

12. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 10 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1154 East Tower
Atlanta, GA 30334

<name and mailing address of Holder>

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

ASL Limited Partnership

_____
[Name of Signatory]
[Title]

Dated: _____

<NAME OF HOLDER>

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

Exhibit A
Legal Description

All that tract or parcel of land lying and being in Land Lots 333 and 334 of the 18th District of DeKalb County, Georgia, and being more particularly described as follows:

Starting at an iron pin at the intersection of the North line of Land Lot 334 and the Nortwesterly side of North Peachtree Road (70 foot right-of-way), running thence South 15 degrees 26 minutes West along the Northwest side of North Peachtree Road, 117.62 feet; thence South 24 degrees 59 minutes West along siad right-of-way, 97.22 feet to a point; thence South 32 degrees 49 minutes West along said right-of-way, 97.52 feet to a point; thence running South 40 degrees 46 minutes West along said right-of-way, 97.55 feet to a point; running thence South 48 minutes 24 minutes West along said right-of-way 82.79 feet to a point; thence North 48 degrees 29 minutes West 157.2 feet to a point in Nancy Creek; thence North 88 degrees 44 minutes 30 seconds West 435.3 feet to a point; thence North 1 degree 15 minutes 30 seconds West 78 feet to a point in Nancy Creek; thence North 70 degrees 5 minutes 30 seconds West 80.10 feet to a point in Nancy Creek; thence South 62 degrees 24 minutes 30-seconds West 73.50 feet to a point in Nancy Creek; thence north 66 degrees 25 minutes 30 seconds West 158.30 feet to a point in Nancy Creek; thence North 78 degrees 16 minutes West 585.0 feet to a point in Nancy Creek; thence South 70 degrees 55 minutes West 138.50 feet to a point in Nancy Creek; thence South 34 degrees 5 minutes West 118.40 feet to a point in Nancy Creek; thence South 28 degrees 55 minutes East 35.0 feet to a point; thence South 61 degrees 5 minutes West 194.4 feet to a point on the Easterly right-of-way of North Shallowford Road, said road being an 80 foot right-of-way; thence North 29 degrees 30 minutes West 98.54 feet to a point; thence North 25 degrees 59 minutes 30 seconds West 255.67 feet to a point; thence South 89 degrees 49 minutes East 2175.67 feet to a point on the Northwesterly side of North Peachtree Road and the point of beginning.

Less and except all that tract or parcel of land lying and being in Land Lot 334 of the 18th District, DeKalb County, Georgia, conveyed from ASL Limited Partnership to Carlton G. Chapman on December 23, 1988, recorded in Deed Book 5689 page 052, DeKalb County Records, and being more particularly described as follows:

TO FIND THE TRUE POINT OF BEGINNING, commence at an iron pin set at the intersection of the north line of Land Lot 334 and the northwesterly right-of-way of North Peachtree Road; running thence south 15 degrees 12 minutes 04 seconds west along said right-of-way a distance of 116.74 feet to an iron pin set; running thence south 24 degrees 38 minutes 05 seconds west a distance of 60.00 feet to an iron pin set and the TRUE POINT OF BEGINNING; from the TRUE POINT OF BEGINNING run thence along the northwesterly right-of-way of North Peachtree Road, south 24 degrees 38 minutes 05 seconds west a distance of 37.22 feet to an iron pin set; thence continuing along said right-of-way south 32 degrees 28 minutes 05 seconds west a distance of 978.52 feet to a point; running thence south 40 degrees 03 minutes 05 seconds west a distance of 82.79 feet to an iron pin set; running thence north 48 degrees 49 minutes 55 seconds west a distance of 157.20 feet to an iron pin set; running thence north 00 degrees 07 minutes 01 seconds west a distance of 141.34 feet to an iron pin set; running thence north 89 degrees 50 minutes 05 seconds east a distance of 311.32 feet to an iron pin set and the TRUE POINT OF BEGINNING. Said tract containing 1.151 acres as shown by plat of survey for Carl Chapman, prepared by Quadra-Tech, Inc., dated Decmember 12, 1986, being certified by Wallace Long Hambrick, Georgia Registered Land Surveyor No. 1375.

Appendix D
Vapor Mitigation System Example

Air Quality Control Agency

SOIL GAS MITIGATION DIVISION

www.MitigationSystem.com

1-800-420-3881

Serving Atlanta, Douglasville, Roswell & Surrounding Areas
Phone: (770) 394-5655
Fax: 1-800-207-5685

SOIL GAS REDUCTION SERVICES FOR: Winter Environmental

SERVICE ADDRESS: The Fashion Care Facility, Atlanta

QUALIFICATIONS: National Environmental Health Association Radon Mitigator NEHA# 103949RMT
E.P.A. Radon Proficiency Program Graduate (University of Minnesota)
Occupational Safety and Health Association (OSHA) Certified Company

LIABILITY: Fully insured: We carry liability insurance, workmans' comp, vehicle & tool coverage

METHOD: Sub-Slab/ Drain-Tile Ventilation (Depressurization) System

HOW IT WORKS: The lowest floor of most buildings, other than those built over a crawl space, consists of a concrete slab poured over the earth or on top of pea stone, gravel, or sand. Soil gas can be drawn from under the slab and vented away from the structure. Sometimes it is possible to connect directly into the foundation drain-tile system and draw air (including soil gas) from the sub-slab network beneath the floor. Both of these procedures are very effective (up to 99% reduction of soil gas levels.)

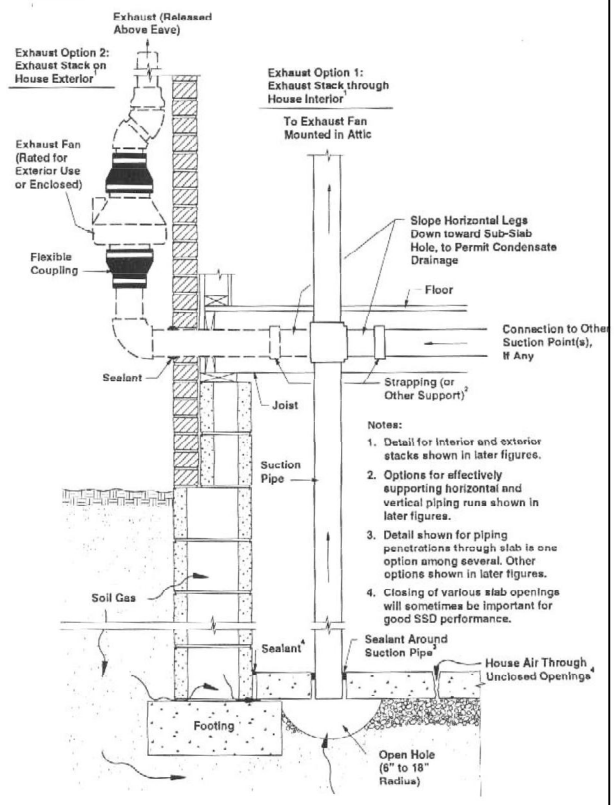
PROPOSAL: SUB-SLAB/DRAIN TILE VENTILATION SYSTEM

1. Create soil gas collection chambers beneath concrete floors in appropriate locations.
2. Install vent pipes in collection chambers and seal into place.
3. Run primary suction pipes from collection chambers to outside walls or into attics and install corrosion resistant industrial strength centrifugal fans.
4. Electrical work is not included in this proposal. Electrical junction boxes or plugs must be mounted within 6 feet of the system locations.
5. Continue vent stacks from fans to safe discharge locations.
6. Identify and seal any cracks or joints in floors or walls that impair system's performance or building's energy efficiency.
7. Supply and install differential pressure gauges on systems to monitor/ display fan vacuum pressures.
8. Conduct diagnostic tests and tune systems for optimal air pressure ratios. These steps are critical to maximize soil gas reduction, minimize operating cost, and eliminate system noise.
9. LIFETIME WARRANTIES ON SYSTEM DURABILITY AND WORKMANSHIP.
10. Fans are covered by 7-YEAR replacement warranties.
11. Warranties automatically transfer with the title to the property.
12. BEST PRICE GUARANTEE – WE BEAT ANY OTHER WRITTEN ESTIMATE

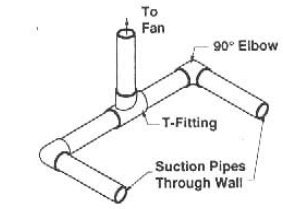
TOTAL PRICE PER SYSTEM:		PRICE IS GUARANTEED & INCLUDES ALL APPLICABLE TAXES, PERMITS, AND OTHER FEES. PAYMENT TERMS: CHECK, CASH, OR CREDIT CARD. PAYMENT IS DUE UPON COMPLETION OF THE WORK. A FINANCE CHARGE OF 1.5% PER MONTH APPLIES TO UNPAID BALANCES.
NUMBER OF SYSTEMS NEEDED:	x 4 SYSTEMS	
TOTAL PROJECT PRICE:		

OPTIONAL ITEMS:

1. Upgrade standard mitigation fans to industrial strength fans: INCLUDED
2. Color-Match exterior system components to building exterior: +$249.00 / System



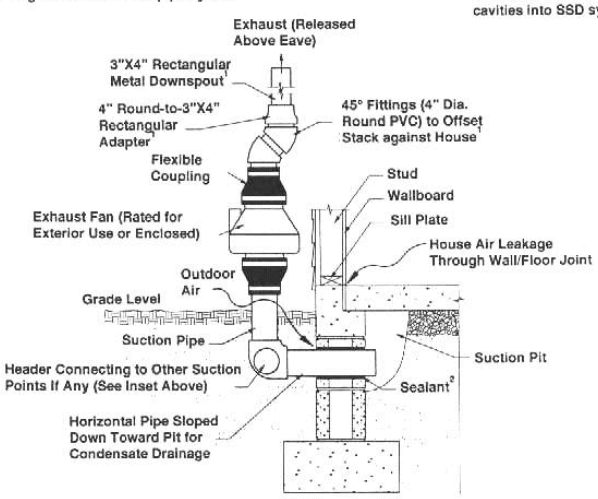
Sub-slab depressurization (SSD) using pipes inserted down through the slab from indoors.



One possible configuration for a multi-pipe system

Notes:

1. The exterior downspout exhaust stack illustrated here is one of several possible stack configurations, as discussed later.
2. Sealing pipe penetration through wall is important to reduce leakage of outdoor air and air from block cavities into SSD system.



Sub-slab depressurization (SSD) using pipes inserted horizontally through the foundation wall from outdoors.

May 13, 2011

Mr. Jason Metzger
Unit Coordinator – Environmental Engineer
Georgia Environmental Protection Division
Hazardous Sites Response Program/Voluntary Remediation Program
2 Martin Luther King, Jr. Drive, SE
Atlanta, GA 30334

Subject: Delay in Surface Water Sampling Activities – VRP Site, Fashion Care/Executive Care, HSI No. 10786, 2211 Savoy Drive, Chamblee, DeKalb County, Georgia Winter Environmental Project No. 08096

Dear Mr. Metzger:

In the Environmental Protection Division's Comment Letter dated December 2, 2010, regarding the Fashion Care/Executive Care VRP Site, Comment #2 requested that a minimum of eight surface water sampling events be conducted when stream flow in Nancy Creek bordering the Site is close to the established 7Q10, and that the results of this sampling be included in the first VRP Progress Report to be submitted June 2, 2011. Per our discussion, 7Q10 conditions are most likely to occur during the historical dry period of late summer to early fall for the Greater Atlanta Area. Therefore, based upon your previous verbal approval of this rationale, the sampling will be conducted during this historical dry period, and the results will be submitted in the second VRP Progress Report in December 2011.

Please contact me with any questions or comments you may have.

Sincerely,

Leonard J. Diprima, Jr., P.G.
Senior Consultant

Cc: John F. Rowan, Sr. Item IV Trust, C/o Catherine Norris

3350 Green Pointe Parkway
Suite 200
Norcross, Georgia 30092
Main: 404.588.3300
Fax: 404.223.6251
www.winter-environmental.com
A division of
The Winter Construction Company

VOLUNTARY REMEDIATION PROGRAM
VOLUNTARY INVESTIGATION AND REMEDIATION PLAN SEMIANNUAL STATUS REPORT

Date: December 3, 2012

Site Name: Fashion Care/Executive Care Site, HSI No. 10786

Site Address: 2211 Savoy Drive, Chamblee, Georgia

County: DeKalb

This electronic copy of the Voluntary Investigation and Remediation Plan Semiannual Status Report dated December 3, 2012 for the above referenced Fashion Care/Executive Care Site, HSI No. 10786, 2211 Savoy Drive, Chamblee, Georgia, DeKalb County is complete, identical to the paper copy, and virus free.

Voluntary Investigation and Remediation Plan
Semiannual Status Report
Voluntary Remediation Program

Fashion Care/Executive Care Site
HSI No. 10786
2211 Savoy Drive, Chamblee, DeKalb County, Georgia

Prepared For

John F. Rowan, Sr. Item IV Trust
PO Box 197, Carmel Valley, CA 93924

Prepared by

WOODARD &CURRAN

2055 Sugarloaf Parkway, Suite 175
Duluth, Georgia 30097

Project No. 226203

December 3, 2012

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Appendix C July 2012 Monitoring Well Sampling Forms

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Section 1
PE/PG Certification

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

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

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

Leonard J. Diprima, Jr. / Georgia PG #949	December 3, 2012
Printed Name and GA PE/PG Number	Date

Signature and Stamp

Section 2
Introduction

Woodard & Curran (W&C) has prepared this Voluntary Investigation and Remediation Plan Semiannual Status Report (Status Report) in accordance with the Voluntary Remediation Program (VRP) for the Fashion Care/Executive Care Site (Site), Hazardous Site Inventory (HSI) No. 10786, located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, on behalf of the John F. Rowan, Sr. Item IV Trust (Trust). On July 9, 2010, a Voluntary Investigation and Remediation Plan Application (VIRP) was submitted to the Georgia Environmental Protection Division (EPD) Hazardous Sites Response (HSRA) Program for the Site. On December 2, 2010, the EPD approved the VIRP with comments and entered the Site into the VRP. This Status Report has been prepared to present the activities conducted from June 3, 2012 through December 2, 2012 for the Site in accordance with the VRP.

Section 3
Work Performed – June 3, 2012 through December 2, 2012

The activities currently identified to be performed at the Site under the VRP are outlined in the following documents:

- VIRP dated July 9, 2010;
- EPD VIRP approval letter dated December 2, 2010;
- EPD VIRP comment letter dated December 2, 2010; and the
- VRP Action Plan Technical Memorandum dated February 3, 2011 included as an attachment to the Financial Assurance submittal to the EPD dated March 2, 2011.

The activities that have been performed from June 3, 2012 through December 2, 2012 are as follows:

- Execution of environmental covenants with property owners for parcels 18-343-13-002 (Fashion Care property) and 18-343-13-005 (Southern Automatic Company property). These parcels are shown in Figure 1.
- Negotiations with ASL Limited Partnership regarding the placement of an environmental covenant on parcel 18-333-02-023.
- The collection and evaluation of a full round of groundwater and surface water samples from the Site that was used to reestablish a groundwater concentration baseline, and that will be used for modeling of contaminants.

3.1 Environmental Covenants - Parcels 18-343-13-002, 18-343-13-005 and 18-333-02-023

The environmental covenants for parcels 18-343-13-002 (Fashion Care property) and 18-343-13-005 (Southern Automatic Company property) were executed with the respective property owners. Copies of the environmental covenants are in Appendix B. The activities to complete the environmental covenant VRP process are anticipated to be completed in the next six month period and are presented in Section 4.

Numerous attempts at negotiation with ASL Limited Partnership were conducted by the representative of the Trust, Catherine Norris, and the VRP project manager for the Trust, Leonard Diprima, P.G. Significant progress was made between the Trust and ASL Limited Partnership at the end of November and early December 2012 regarding the execution of the environmental covenant. It is anticipated that the environmental covenant for the ASL Limited Partnership property (parcel 18-333-02-023) will be executed by the property owner in December 2012 or January 2013.

The Trust has delayed the implementation of some of the VRP tasks projected to be completed during this period as described in the June 2, 2012 VRP Status Report due to the uncertainty of the outcome of

these negotiations. Failed negotiations would likely have required the site be placed back into the HSRA Program resulting in a different priority in compliance tasks that would need to be executed.

3.2 Groundwater and Surface Water Sampling – July 2012

Winter Environmental conducted a round of groundwater and surface water sampling from July 10 to 13, 2012 to reestablish baseline groundwater conditions and current surface water conditions for the Site. The previous full round of groundwater samples were collected in 2010. A total of 18 monitoring wells; FMW- 1 through FMW-16, SB-24 and SB-26; were sampled for Target Compound List (TCL) volatile organic compounds (VOCs). One blind duplicate groundwater sample was collected from monitoring well FMW-1. Monitoring well locations are shown on Figure 2. Analysis of the samples was conducted by Method 8260B by Analytical Environmental Services (AES) of Atlanta, Georgia. The groundwater sampling activities were conducted in accordance with the protocols specified in the EPA Region IV Environmental Investigations Standard Operating Procedures and Quality Assurance Manual (EISOPQAM), 2008.

Prior to beginning groundwater sampling, each monitoring well was opened and allowed to equilibrate prior to collecting groundwater elevation measurements. A water level indicator calibrated to 0.01 feet was used for water level measurements. At each well location, the depth to the water table was measured from the well top of casing and then sounded to determine the height of the water column and to determine if the well was obstructed. The water level indicator was cleaned with isopropyl alcohol and rinsed with deionized water between monitoring wells. Water level measurements are presented in Table 1, and a potentiometric surface map for the July sampling event is shown as Figure 3. Groundwater again appears to be mounding beneath the Fashion Care building as it was in 2008. It was discovered in 2008 that the mounding was due to a leaking washing machine waste water sump located in the rear of the building. The sump was cleaned and resealed at that time; however, it may have begun to leak again. The sump is no longer suspected to be a source of contamination because the tenant installed a new non-PCE based drycleaner machine to replace the previous PCE-based machine. The mounding water table is discussed further in Section 3.2.1.

Groundwater sampling was conducted using a peristaltic pump and the USEPA low flow/low stress method. Field measurements of pH, conductivity, dissolved oxygen, oxidation-reduction potential and temperature were collected every five minutes until all parameters stabilized within approximately 10 percent for three consecutive readings. When this stabilization point was reached samples were collected for TCL VOCs using the pipette method.

Three, 1-inch diameter monitoring wells, SB-24, SB-25 and SB-26, are located inside the Fashion Care building. Monitoring well SB-25 purged dry and did not recover; therefore, no sample was collected. Monitoring wells SB-24 and SB-26 purged dry and were sampled when sufficient well recovery occurred. Monitoring well sampling forms are in Appendix C.

Surface water samples were collected using a pre-cleaned stream sampler that extends on a pole up to a reach of 25 feet. This was used for safety reasons due to the height of the stream bank on the Fashion Care side of the stream. The sample was collected from mid-depth in the center of the stream. The water sample was then carefully transferred to appropriate sample vials for VOC analysis.

Groundwater and surface water samples collected during the July 2012 sampling event were secured in ice-filled coolers and hand delivered to AES for analysis. Laboratory work orders, and chain-of-custody documents, which included information on project name and number, sampler(s) signature, project manager's name, sample matrix, sample identification/station ID number, date and time of sample collection, total number of containers per sample station, requested analyses and number of containers per analyses per sample station, preservatives, and any other pertinent comments for the laboratory, were placed within each cooler for delivery.

3.2.1 Groundwater and Surface Water Analytical Results

The following drycleaner related constituents were detected above method (practical quantitation limits) PQLs within the groundwater plume originating from the Fashion Care release: tetrachloroethene (PCE), trichloroethene (TCE), cis-1, 2-dichloroethene, trans-1, 2-dichloroethene and vinyl chloride. Historically, 1,1-dichloroethene has also been detected in FMW-4 only; however, due to elevated levels of other constituents in the sample, a higher dilution factor was required for analysis for lab instrument protection, resulting in a PQL higher for this sample. The PQL was higher than the 1,1-dichloroethene concentration historically seen at this location. Of these detected drycleaner related constituents, all were detected at one or more locations above an applicable VRP standard for the site. Table 2 presents the July 2012 analytical results, and Table 3 presents the cumulative historical groundwater analytical results. Each table presents the detected concentrations relative to HSRA Type 1 and 3 RRS, HSRA Type 4 RRS and HSRA Type 5 RRS for utility worker and construction workers. A number of other VOCs were detected that are not related to the Fashion Care drycleaner release, but to an adjacent petroleum release and the standard application of chemical products. These VOCs are also presented in Tables 2 and 3.

The July analytical 2012 results are also presented on Figure 4, which shows the detected drycleaner constituent concentrations at each sample location and the current boundaries of the various regulatory standards. To further evaluate the evolution of the groundwater plume, the data from wells along the axis of the plume and edges of the plume were plotted and the graphs of concentration verses time are presented in Appendix D. Please note when reviewing these graphs that the concentration scales on each differ due to the distribution of concentrations over time in each well. An evaluation of this information indicates:

- There are currently two cores associated with the plume; one in the immediate vicinity of the Fashion Care building and one in the area of FMW-6, FMW-9 and FMW-13. It is not currently known if the cores are associated with two release events, if the core was divided due to the

chemical injection that was conducted to attempt to remediate soil in 2009, or if the reoccurrence of mounding of the water table beneath the Fashion Care building has flushed additional constituents from the soil.

- There is an increasing production/concentration of degradation constituents within the plume indicating that the plume is successfully undergoing natural attenuation.
- Natural degradation in FMW-10 on the northern edge of the plume on the ASL Limited Partners property appears to have brought this area into compliance with applicable RRS, narrowing the plume in this area.
- Concentrations of degradation constituents in the most downgradient monitoring well, FMW-16, are increasing but remain below Type 1 RRS.

Table 4 presents the July 2012 surface water sample results and the historical surface water data collected at each surface water sampling location. Drycleaner constituents from the Site have not appeared in the stream to date.

Laboratory data reports are not included in this status report, but will be provided in the VRP Compliance Status Report.

Section 4
Work to be Performed

The additional activities anticipated to be performed at the Site through completion of the VIRP are outlined in the VIRP dated July 9, 2010, the EPD VIRP approval letter dated December 2, 2010, the EPD VIRP comment letter dated December 2, 2010, and the VRP Action Plan Technical Memorandum dated February 3, 2011 included as an attachment to the Financial Assurance submittal to the EPD dated March 2, 2011. More specifically, these tasks are presented on Figure 5. The tasks anticipated to be completed during the next six months for the period ending June 3, 2013, are Nos. 4, 7, 10, 11 and 18, and are presented in more detail below.

Anticipated Tasks December 3, 2012 through June 2, 2013:

- Preparation of a "Corrective Action Plan" to be implemented if surface water detections occur during future surface water sampling events.

- Refining of the Conceptual Site Model (Figure 6):
  - Installation of borings across the impacted area to confirm presence/absence of a dry silt, shallow confining unit,
  - Installation of a deeper soil zone well next to FMW-4 to establish a vertical gradient if the dry silt, shallow confining unit is uniformly present,
  - Installation of piezometers across Nancy Creek to confirm creek is a gaining stream, and
  - Conduct a well pump test to recalculate horizontal hydraulic gradient for the Site and for input into future modeling.

- Completion of horizontal groundwater delineation beyond FMW-15, and possibly FMW-16, through the installation of shallow monitoring wells. No wells were installed last period as projected. Since a round of groundwater samples had not been collected since 2010, it was decided to see if the constituent concentrations in FMW-15 had naturally degraded to below Type 1 RRS. Though vinyl chloride concentrations (the only constituent detected) had degraded by almost 50% to a current concentration of 0.0032 mg/L, it was still above the Type 1 RRS of 0.002 mg/L.

- An evaluation of the groundwater and surface water data collected in the previous six month period will be used to determine what monitoring wells need to be replaced that were abandoned by the EPD UST Program to aid in groundwater monitoring and completion of the conceptual site model. The proposed replacement wells will be discussed with the EPD.

- Execution of the environmental covenant for parcel 18-333-02-023 (ASL Limited Partnership property).

- For those Environmental Covenants that have been executed with property owners the following will be completed by the Trust:
  - Identify "Parties with interest in the Property". This will include anyone with an easement across the property, mortgage holder, etc.
  - Identify the surrounding property owners.
  - At least 30 days prior to obtaining the EPD Director's signature, a copy of the covenant will be sent to the following:
    - Anyone identified as a "Grantee/Holder";
    - Each person holding a recorded interest in the property; "Parties with interest in the Property";
    - "Fee Owner of Property/Grantor";
    - Each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located; and
    - Each owner in fee simple whose property abuts the property subject to the Environmental Covenant.
  - Within thirty (30) days <u>after</u> the date of the EPD Director's signature, the Trust shall:
    - File the EC with the Recorders of Deeds for the County in which the Property is located;
    - Send a file stamped copy of the EC to EPD within thirty (30) days of recording;
    - Send a file-stamped copy to each of the following:
      - Anyone identified as a "Grantee/Holder";
      - Each person holding a recorded interest in the property; "Parties with interest in the Property";
      - "Fee Owner of Property/Grantor";
      - Each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located; and
      - Each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

- Vapor mitigation system installation for the Fashion Care building.

The tasks required to complete the VIRP are presented on Figure 7, a revised estimated schedule. This schedule will be revised with the submittal of each Semiannual Status Report, as required.

Section 5
Professional Services Hours This Period

A total of approximately 195 professional service hours have been completed by Winter Environmental and Woodard & Curran from June 3, 2012 through December 2, 2012. Of these total hours, 99 hours were utilized by the professional geologist overseeing the project. A table of the approximate distribution of hours is presented in Table 5.

Tables

Table 1
Water Table Elevation Data
Fashion Care/Executive Care VRP Site (HSI# 10786)

Well ID	Top of Casing Elevation (ft msl)	September 4, 2008				December 1-3, 2008				March 19, 2010				July 10, 2012			
		Depth to Free-Phase Petroleum (ft bgs)	Depth to Groundwater (ft bgs)	Free-Product Thickness (ft)	Groundwater Elevation (ft msl)	Depth to Free-Phase Petroleum (ft bgs)	Depth to Groundwater (ft bgs)	Free-Product Thickness (ft)	Groundwater Elevation (ft msl)	Depth to Free-Phase Petroleum (ft bgs)	Depth to Groundwater (ft bgs)	Free-Product Thickness (ft)	Groundwater Elevation (ft msl)	Depth to Free-Phase Petroleum (ft bgs)	Depth to Groundwater (ft bgs)	Free-Product Thickness (ft)	Groundwater Elevation (ft msl)
FMW-1	98.92	-	15.05	-	83.87	-	14.91	-	84.01	-	11.10	-	87.82	-	15.30	-	83.62
FMW-2	97.07	-	13.27	-	83.80	-	13.09	-	83.98	-	9.15	-	87.92	-	13.45	-	83.62
FMW-3	96.96	-	13.34	-	83.62	-	13.35	-	83.61	-	10.54	-	86.42	-	13.15	-	83.81
FMW-4	97.11	-	13.59	-	83.52	-	13.41	-	83.70	-	10.95	-	86.16	-	13.80	-	83.31
FMW-5	95.40	-	12.85	-	82.55	-	12.56	-	82.84	-	11.69	-	83.71	-	13.00	-	82.40
FMW-6	93.12	-	10.68	-	82.44	-	10.39	-	82.73	-	9.65	-	83.47	-	10.88	-	82.24
FMW-7	96.81	NI	NI	NI	NI	-	13.32	-	83.49	-	11.20	-	85.61	-	13.60	-	83.21
FMW-8	97.40	NI	NI	NI	NI	-	12.45	-	84.95	-	10.42	-	86.98	-	13.90	-	83.50
FMW-9	94.07	NI	NI	NI	NI	-	11.44	-	82.63	-	10.89	-	83.18	-	11.70	-	82.37
FMW-10	92.85	NI	NI	NI	NI	-	10.24	-	82.61	-	9.36	-	83.49	-	10.70	-	82.15
FMW-11	94.40	NI	NI	NI	NI	-	11.65	-	82.75	-	11.03	-	83.37	-	12.01	-	82.39
FMW-12	95.90	NI	NI	NI	NI	NI	NI	NI	NI	-	12.55	-	83.35	-	12.89	-	83.01
FMW-13	92.05	NI	NI	NI	NI	NI	NI	NI	NI	-	8.28	-	83.77	-	9.92	-	82.13
FMW-14	92.03	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	-	10.88	-	81.15
FMW-15	92.10	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	-	11.15	-	80.95
FMW-16	91.32	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	-	10.75	-	80.57
SB-24	98.56	-	14.50	-	84.06	-	NT	-	-	-	11.11	-	87.45	-	14.70	-	83.86
SB-25	98.50	-	dry	-	dry	-	14.38	-	84.12	-	11.40	-	87.10	-	14.80	-	83.70
SB-26	98.36	-	13.17	-	85.19	-	13.34	-	85.02	-	11.50	-	86.86	-	12.85	-	85.51
MW-1	98.51	13.95	15.80	1.85	82.71	13.65	16.09	2.44	82.42	-	9.91	-	88.60	-	Abandoned	-	-
MW-2R	98.38	-	13.83	-	84.55	-	13.50	-	84.88	-	9.06	-	89.32	-	Abandoned	-	-
MW-3	98.56	-	13.92	-	84.64	13.68	13.69	0.01	84.87	-	9.30	-	89.26	-	Abandoned	-	-
MW-4R	96.72	-	12.62	-	84.10	-	12.45	-	84.27	-	11.15	-	85.57	-	Abandoned	-	-
MW-8	96.62	-	13.54	-	83.08	13.30	13.31	0.01	83.31	-	11.98	-	84.64	-	Abandoned	-	-
MW-9R	97.11	13.85	13.88	0.03	83.23	-	13.65	-	83.46	-	11.75	-	85.36	-	Abandoned	-	-
MW-10R	Converted to Recovery Well																
MW-11	98.77	-	14.95	-	83.82	-	14.71	-	84.06	-	11.50	-	87.27	-	Abandoned	-	-
MW-12	97.52	-	13.64	-	83.88	-	13.43	-	84.09	-	12.75	-	84.77	-	Abandoned	-	-
MW-13	96.49	-	13.92	-	82.57	-	13.74	-	82.75	-	12.80	-	83.69	-	Abandoned	-	-
MW-14	96.59	-	14.08	-	82.51	-	13.81	-	82.78	-	12.75	-	83.84	-	Abandoned	-	-
MW-15	98.91	-	14.45	-	84.46	-	14.21	-	84.70	-	9.97	-	88.94	-	Abandoned	-	-
MW-16	98.54	-	13.75	-	84.79	-	13.54	-	85.00	-	9.15	-	89.39	-	Abandoned	-	-
MW-17	Converted to Recovery Well																
MW-18	96.68	-	12.61	-	84.07	-	12.41	-	84.27	-	11.10	-	85.58	-	Abandoned	-	-
MW-19	97.31	-	13.21	-	84.10	-	12.96	-	84.35	-	11.55	-	85.76	-	Abandoned	-	-
MW-20	97.86	-	13.62	-	84.24	-	13.44	-	84.42	-	11.02	-	86.84	-	Abandoned	-	-
MW-21	99.00	14.55	14.64	0.09	84.36	14.30	14.34	0.04	84.66	-	10.12	-	88.88	-	Abandoned	-	-
MW-22	99.48	-	14.89	-	84.59	-	14.64	-	84.84	-	10.24	-	89.24	-	Abandoned	-	-
MW-23D	96.13	-	13.00	-	83.13	-	12.79	-	83.34	-	11.12	-	85.01	-	Abandoned	-	-
SG-1	86.84	NI	NI	NI	NI	NI	NI	NI	NI	-	3.65	-	83.19	-	Lost	-	-
SG-2	86.38	NI	NI	NI	NI	NI	NI	NI	NI	-	3.87	-	82.51	-	Lost	-	-

NOTES:
ft msl, feet above mean sea level.
ft toc, feet below top of casing.
MW-5, MW-6 and MW-7 do not exist
-, denotes no free-phase petroleum was found in the well
NT, measurement not taken
NI, Monitoring well not installed
Abandoned, Wells were abandoned by the EPD UST Program
Lost, Surface water guages lost to storm flow in Nancy Creek.
FMW-14, FMW-15, FMW-16 installed 5/27/10, 6/15/10 and 6/15/10, respectively.

Table 2

Groundwater Analytical Data - Detected Constituents - July 2012

Fashion Care/Executive Care VRP Site (HSI#10786)

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 4 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		FMW-1	DUP 1 (FMW-1)	FMW-2	FMW-3	FMW-4	FMW-5	FMW-6	FMW-7	FMW-8	FMW-9	FMW-10	FMW-11	FMW-12	FMW-13	FMW-14	FMW-15
	Date Sampled				Construction Worker	Utility Worker	7/11/12	7/11/12	7/11/12	7/12/12	7/12/12	7/11/12	7/11/12	7/12/12	7/11/12	7/10/12	7/11/12	7/11/12	7/12/12	7/10/12	7/11/12	7/10/12
Volatile Organic Compounds																						
Fashion Care HSRA Site Constituents of Interest																						
1,1-Dichloroethene		75-35-4	0.007	0.5229	0.577	4.12	<0.005	<0.005	<0.5	<0.005	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1, 2-Dichloroethene		156-59-2	0.53	1.02**	12.8	91.3	0.18	0.16	<0.5	<0.005	**75**	0.059	**0.87**	<0.005	<0.005	**0.72**	<0.005	<0.005	<0.005	0.078	0.027	<0.005
Tetrachloroethene (PCE)		127-18-4	0.005**	0.005*	0.286	0.082	**0.0097**	**0.0087**	<0.5	<0.005	**1.5**	**0.0073**	**2.6**	<0.005	<0.005	**1.8**	<0.005	**0.03**	<0.005	**0.23**	**0.027**	<0.005
trans-1, 2-Dichloroethene		156-60-5	0.1	2**	0.174	1.24	<0.005	<0.005	<0.5	<0.005	**0.54**	<0.005	0.016	<0.005	<0.005	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene (TCE)		79-01-6	0.005**	0.0345	1.02	0.290	**0.012**	0.01	<0.5	<0.005	**1.1**	**0.0068**	**0.17**	<0.005	<0.005	**0.13**	<0.005	<0.005	<0.005	**0.054**	**0.023**	<0.005
Vinyl Chloride		75-01-4	0.002**	0.0033	0.27	0.097	**0.055**	**0.05**	<0.2	<0.002	**2.4**	**0.0071**	**0.0078**	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	**0.0032**
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laboratory Artifacts																						
1,2-Dichlorobenzene		95-50-1	NA(1)	NA(1)	NC	NC	<0.005	<0.005	<0.5	<0.005	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone		67-64-1	4	45.6	NC	NC	<0.05	<0.05	<5	<0.05	<5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorobenzene		108-90-7	NA(1)	NA(1)	NC	NC	<0.005	<0.005	<0.5	<0.005	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																						
1,2-Dibromoethane (EDB)		106-93-4	PRC	PRC	NC	NC	<0.005	<0.005	<0.5	<0.005	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1, 2-Dichloroethane		107-06-2	PRC	PRC	NC	NC	<0.005	<0.005	<0.5	<0.005	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone (MEK)		78-93-3	PRC	PRC	NC	NC	<0.05	<0.05	<5.0	<0.05	<5.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	PRC	NC	NC	<0.01	<0.01	<1.0	<0.01	<1.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	PRC	PRC	NC	NC	1.2	0.74	13	0.07	5	<0.005	0.013	<0.005	2.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cyclohexane		110-82-7	PRC	PRC	NC	NC	0.19	0.23	<0.5	0.042	<0.5	<0.005	<0.005	<0.005	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene		100-41-4	PRC	PRC	NC	NC	0.63	0.4	2.7	<0.005	1.3	<0.005	<0.005	<0.005	2.3	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene		98-82-8	PRC	PRC	NC	NC	0.044	0.043	0.5	0.019	0.5	<0.005	<0.005	<0.005	0.091	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	PRC	NC	NC	1.1	18	1.4	<0.005	1.6	<0.005	0.31	<0.005	<0.005	0.4	<0.005	0.24	0.046	0.027	0.012	<0.005
Styrene		100-42-5	PRC	PRC	NC	NC	<0.005	<0.005	<0.5	<0.005	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene		108-88-3	PRC	PRC	NC	NC	3.3	2.1	7.9	<0.005	1.8	<0.005	<0.005	<0.005	2.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylenes, Total		1330-20-7	PRC	PRC	NC	NC	2.67	16.6	16.4	0.0078	0.71	<0.005	<0.005	<0.005	13.3	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

NOTES:

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker
PRC,	Pertroleum related constituent
NA(1),	Not Applicable - fumigant-insecticide properly applied
NR,	Not regulated
*,	Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Type 1 RRS has a higher value.
**,	RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS in Condition 8.
NC,	Not calculated.

Table 2

Groundwater Analytical Data - Detected Constituents - July 2012

Fashion Care/Executive Care VRP Site (HSI#10786)

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 4 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		FMW-16	SB-24	SB-26
	Date Sampled				Construction Worker	Utility Worker	7/10/12	7/13/12	7/13/12
Volatile Organic Compounds									
Fashion Care HSRA Site Constituents of Interest									
1,1-Dichloroethene		75-35-4	0.007	0.5229	0.577	4.12	<0.005	<0.5	<0.5
cis-1, 2-Dichloroethene		156-59-2	0.53	1.02**	12.8	91.3	0.0094	**2.7**	**13**
Tetrachloroethene (PCE)		127-18-4	0.005**	0.005*	0.286	0.082	<0.005	<0.5	**12**
trans-1, 2-Dichloroethene		156-60-5	0.1	2**	0.174	1.24	<0.005	<0.5	<0.5
Trichloroethene (TCE)		79-01-6	0.005**	0.0345	1.02	0.290	<0.005	<0.5	**11**
Vinyl Chloride		75-01-4	0.002**	0.0033	0.27	0.097	<0.002	<0.2	**0.46**
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laboratory A									
1,2-Dichlorobenzene		95-50-1	NA(1)	NA(1)	NC	NC	<0.005	<0.5	<0.5
Acetone		67-64-1	4	45.6	NC	NC	<0.05	<5	<5
Chlorobenzene		108-90-7	NA(1)	NA(1)	NC	NC	<0.005	<0.5	<0.5
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE									
1,2-Dibromoethane (EDB)		106-93-4	PRC	PRC	NC	NC	<0.005	<0.5	<0.5
1, 2-Dichloroethane		107-06-2	PRC	PRC	NC	NC	<0.005	<0.5	<0.5
2-Butanone (MEK)		78-93-3	PRC	PRC	NC	NC	<0.05	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	PRC	NC	NC	<0.01	<1.0	<1.0
Benzene		71-43-2	PRC	PRC	NC	NC	<0.005	5.3	<0.5
Cyclohexane		110-82-7	PRC	PRC	NC	NC	<0.005	<0.5	<0.5
Ethylbenzene		100-41-4	PRC	PRC	NC	NC	<0.005	1.2	<0.5
Isopropylbenzene		98-82-8	PRC	PRC	NC	NC	<0.005	<0.5	<0.5
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	PRC	NC	NC	<0.005	10	<0.5
Styrene		100-42-5	PRC	PRC	NC	NC	<0.005	<0.5	<0.5
Toluene		108-88-3	PRC	PRC	NC	NC	<0.005	9.8	<0.5
Xylenes, Total		1330-20-7	PRC	PRC	NC	NC	<0.005	7.7	<0.5

NOTES:

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker
PRC,	Pertroleum related constituent
NA(1),	Not Applicable - fumigant-insecticide properly applied
NR,	Not regulated
*,	Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Type 1 RRS has a hig
**,	RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS i
NC,	Not calculated.

Table 3

Cummulative Groundwater and Surface Water Analytical Data - Dectected Constituents

Fashion Care/Executive Care VRP Site (HSI# 10786)

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 4 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		FMW-1	FMW-1(3)	FMW-1	DUP 1 (FMW-1)	FMW-2	FMW-2(3)	FMW-2	FMW-3	FMW-3(3)	FMW-3	FMW-4	FMW-4(3)	FMW-4	FWM-5	FWM-5	FMW-5
	Date Sampled				Construction Worker	Utility Worker	9/8/08	3/8/10	7/11/12	7/11/12	9/8/08	3/8/10	7/11/12	9/8/08	3/9/10	7/12/12	9/8/08	3/8/10	7/12/12	9/5/08	3/11/10	7/11/12
Volatile Organic Compounds																						
Fashion Care HSRA Site Constituents of Interest																						
1,1-Dichloroethene		75-35-4	0.007	0.5229	0.577	4.12	<0.001	<0.005	<0.005	<0.005	<0.001	<0.5	<0.5	<0.001	<0.005	<0.005	**0.061**	**0.038**	<0.5	<0.001	<0.005	<0.005
cis-1, 2-Dichloroethene		156-59-2	0.53	1.02**	12.8	91.3	0.0027	0.024	0.18	0.16	0.11	0.16J	<0.5	0.0048	<0.005	<0.005	**52.0**	**63.0**	**75**	0.1	0.039	0.059
Tetrachloroethene (PCE)		127-18-4	0.005**	0.005*	0.286	0.082	**0.0086**	**0.006**	**0.0097**	**0.0087**	**0.06**	<0.5	<0.5	**0.016**	<0.005	<0.005	**42.0**	**17.0**	**1.5**	**4.7**	**1.2**	**0.0073**
trans-1, 2-Dichloroethene		156-60-5	0.1	2**	0.174	1.24	<0.001	<0.005	<0.005	<0.005	0.0057	<0.5	<0.5	<0.001	<0.005	<0.005	**0.90**	**1.3**	**0.54**	<0.001	<0.005	<0.005
Trichloroethene (TCE)		79-01-6	0.005**	0.0345	1.02	0.290	0.0028	0.0034J	**0.012**	0.01	**0.027**	<0.5	<0.5	**0.0057**	<0.005	<0.005	**30.0**	**22.0**	**1.1**	**0.1**	**0.029**	**0.0068**
Vinyl Chloride		75-01-4	0.002**	0.0033	0.27	0.097	<0.001	<0.002	**0.055**	**0.05**	<0.001	<0.2	<0.2	<0.001	<0.002	<0.002	**3.7**	**1.8**	**2.4**	<0.001	**0.0028**	**0.0071**
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laboratory Artifacts																						
1,2-Dichlorobenzene		95-50-1	NA(1)	NA(1)	NC	NC	<0.001	<0.005	<0.005	<0.005	<0.001	<0.5	<0.5	<0.001	<0.005	<0.005	0.019	0.01	<0.5	<0.001	<0.005	<0.005
Acetone		67-64-1	4	45.6	NC	NC	<0.002	<0.05	<0.05	<0.05	<0.002	<0.5	<5	<0.002	<0.05	<0.05	<0.002	0.094	<5	<0.002	<0.05	<0.05
Chlorobenzene		108-90-7	NA(1)	NA(1)	NC	NC	<0.001	<0.005	<0.005	<0.005	<0.001	<0.5	<0.5	<0.001	<0.005	<0.005	0.0036	0.002J	<0.5	<0.001	<0.005	<0.005
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																						
1,2-Dibromoethane (EDB)		106-93-4	PRC	PRC	NC	NC	<0.001	<0.005	<0.005	<0.005	0.013	<0.5	<0.5	<0.001	<0.005	<0.005	<0.001	<0.005	<0.5	<0.001	<0.005	<0.005
1, 2-Dichloroethane		107-06-2	PRC	PRC	NC	NC	<0.001	<0.005	<0.005	<0.005	0.4	<0.5	<0.5	<0.001	<0.005	<0.005	<0.001	<0.005	<0.5	<0.001	<0.005	<0.005
2-Butanone (MEK)		78-93-3	PRC	PRC	NC	NC	<0.002	<0.05	<0.05	<0.05	0.19	<5.0	<5.0	<0.002	<0.05	<0.05	<0.002	<0.05	<5.0	<0.002	<0.05	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	PRC	NC	NC	<0.002	<0.01	<0.01	<0.01	<0.002	<1.0	<1.0	<0.002	<0.01	<0.01	<0.002	0.076	<1.0	<0.002	<0.01	<0.01
Benzene		71-43-2	PRC	PRC	NC	NC	0.83	1.2	1.2	0.74	13.0	14.0	13	0.16	0.19	0.07	2.0	3.7	5	0.0018	<0.005	<0.005
Cyclohexane		110-82-7	PRC	PRC	NC	NC	0.045	0.1	0.19	0.23	0.14	<0.5	<0.5	0.035	0.053	0.042	<0.001	0.069	<0.5	<0.001	<0.005	<0.005
Ethylbenzene		100-41-4	PRC	PRC	NC	NC	0.33	0.6	0.63	0.4	2.6	3.0	2.7	0.19	0.0075	<0.005	0.465	0.89	1.3	<0.001	<0.005	<0.005
Isopropylbenzene		98-82-8	PRC	PRC	NC	NC	0.013	0.027	0.044	0.043	0.082	0.095J	0.5	0.017	0.034	0.019	0.019	0.038	0.5	<0.001	<0.005	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	PRC	NC	NC	2.4	3.2	1.1	18	0.93	1.1	1.4	<0.002	0.0012J	<0.005	0.945	1.3	1.6	0.022	<0.005	<0.005
Styrene		100-42-5	PRC	PRC	NC	NC	<0.001	<0.005	<0.005	<0.005	<0.001	<0.5	<0.5	<0.001	<0.005	<0.005	<0.001	<0.005	<0.5	<0.001	<0.005	<0.005
Toluene		108-88-3	PRC	PRC	NC	NC	0.054	3.4	3.3	2.1	6.0	15.0	7.9	0.0075	0.0065	<0.005	4.1	7.1	1.8	<0.001	<0.005	<0.005
Xylenes, Total		1330-20-7	PRC	PRC	NC	NC	0.445	2.34	2.67	16.6	14.7	16.9	16.4	0.8884	0.019	0.0078	1.6	3.7	0.71	<0.002	<0.01	<0.005

NOTES:

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker
PRC,	Pertroleum related constituent
NA(1),	Not Applicable - fumigant-insecticide properly applied
NA(2),	Not Applicable - Petroleum related constituent which has no In-Stream Water Quality Standard
NR,	Not regulated
***,**	Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Type 1 RRS has a higher value.
****,**	RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS in Condition 8.
FPP,	Free-phase petroleum present in the monitoring well
NC,	Not calculated.

Table 3

Cummulative Groundwater and Surface Water Analytical Data - Dectected Constituents

Fashion Care/Executive Care VRP Site (HSI# 10786)

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 4 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		FMW-6	FMW-6	FMW-6	FMW-7	FMW-7	FMW-7	FMW-8	FMW-8[3]	FMW-8	FMW-9	FMW-9	FMW-9	FMW-10	FMW-10	FMW-10	FMW-11	FMW-11	FMW-11
	Date Sampled				Construction Worker	Utility Worker	9/5/08	3/11/10	7/11/12	12/3/08	3/9/10	7/12/12	12/2/08	3/8/10	7/11/12	12/3/08	3/11/10	7/10/12	12/2/08	3/11/10	7/11/12	12/2/08	3/11/10	7/11/12
Volatile Organic Compounds																								
Fashion Care HSRA Site Constituents of Interest																								
1,1-Dichloroethene		75-35-4	0.007	0.5229	0.577	4.12	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005
cis-1, 2-Dichloroethene		156-59-2	0.53	1.02**	12.8	91.3	0.18	0.18	**0.87**	<0.001	<0.005	<0.005	0.00236	0.0022J	<0.005	0.0534	0.29	**0.72**	0.0445	0.11	<0.005	0.00288	0.01	<0.005
Tetrachloroethene (PCE)		127-18-4	0.005**	0.005*	0.286	0.082	**1.1**	**1.4**	**2.6**	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	**0.922**	**1.6**	**1.8**	<0.001	<0.005	<0.005	**0.0394**	**0.044**	**0.03**
trans-1, 2-Dichloroethene		156-60-5	0.1	2**	0.174	1.24	0.0036	<0.005	0.016	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	0.00086	0.0062	0.01	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005
Trichloroethene (TCE)		79-01-6	0.005**	0.0345	1.02	0.290	**0.056**	**0.052**	**0.17**	<0.001	<0.005	<0.005	<0.001	0.001J	<0.005	**0.0262**	**0.072**	**0.13**	<0.001	**0.028**	<0.005	**0.00573**	**0.011**	<0.005
Vinyl Chloride		75-01-4	0.002**	0.0033	0.27	0.097	<0.001	<0.002	**0.0078**	<0.001	<0.002	<0.002	<0.001	<0.002	<0.002	<0.001	<0.002	<0.002	**0.0106**	**0.011**	<0.002	<0.001	<0.002	<0.002
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laboratory Artifacts																								
1,2-Dichlorobenzene		95-50-1	NA(1)	NA(1)	NC	NC	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005
Acetone		67-64-1	4	45.6	NC	NC	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05
Chlorobenzene		108-90-7	NA(1)	NA(1)	NC	NC	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																								
1,2-Dibromoethane (EDB)		106-93-4	PRC	PRC	NC	NC	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005
1, 2-Dichloroethane		107-06-2	PRC	PRC	NC	NC	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	0.0013J	<0.005	0.00215	<0.005	<0.005	<0.001	<0.005	<0.005	0.00152	<0.005	<0.005
2-Butanone (MEK)		78-93-3	PRC	PRC	NC	NC	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	PRC	NC	NC	<0.002	<0.01	<0.01	<0.002	<0.01	<0.01	0.0102	<0.01	<0.01	<0.002	<0.01	<0.01	<0.002	<0.01	<0.01	<0.002	<0.01	<0.01
Benzene		71-43-2	PRC	PRC	NC	NC	0.0018	<0.005	0.013	<0.001	<0.005	<0.005	3.07	2.4	2.5	0.00065	<0.005	<0.005	0.00097	<0.005	<0.005	0.00134	<0.005	<0.005
Cyclohexane		110-82-7	PRC	PRC	NC	NC	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	0.18	0.37	<0.25	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005
Ethylbenzene		100-41-4	PRC	PRC	NC	NC	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	2.72	2.2	2.3	0.00052	<0.005	<0.005	0.00073	<0.005	<0.005	0.00321	<0.005	<0.005
Isopropylbenzene		98-82-8	PRC	PRC	NC	NC	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	0.0823	0.086	0.091	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	PRC	NC	NC	0.26	0.064	0.31	<0.002	<0.005	<0.005	<0.002	<0.005	<0.005	0.615	0.19	0.4	0.0235	0.017	<0.005	0.575	0.14	0.24
Styrene		100-42-5	PRC	PRC	NC	NC	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	0.0213	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005
Toluene		108-88-3	PRC	PRC	NC	NC	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	7.71	5.5	2.5	0.00196	<0.005	<0.005	0.0014	<0.005	<0.005	0.00559	<0.005	<0.005
Xylenes, Total		1330-20-7	PRC	PRC	NC	NC	<0.002	<0.01	<0.005	<0.002	<0.01	<0.005	14.97	12.1	13.3	0.00285	<0.01	<0.005	0.00412	<0.01	<0.005	0.021	<0.01	<0.005

NOTES:

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker
PRC,	Pertroleum related constituent
NA(1),	Not Applicable - fumigant-insecticide properly applied
NA(2),	Not Applicable - Petroleum related constituent which has no In-Stream Water Quality Stanc
NR,	Not regulated
*,	Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Type 1 RRS has a hi
**,	RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS
FPP,	Free-phase petroleum present in the monitoring well
NC,	Not calculated.

Table 3

Cummulative Groundwater and Surface Water Analytical Data - Dectected Constituents

Fashion Care/Executive Care VRP Site (HSI# 10786)

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 4 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		FMW-12[3]	FMW-12	FMW-13(3)	FMW-13	FMW-14	FMW-14	FMW-15	FMW-15	FMW-16	FMW-16	SB-24[3]	SB-24	SB-25[3]	SB-26[3]	SB-26
	Date Sampled				Construction Worker	Utility Worker	3/17/10	7/12/12	3/17/10	7/10/12	5/27/10	7/11/12	6/15/10	7/10/12	6/15/10	7/10/12	3/16/10	7/13/12	3/16/10	3/16/10	7/13/12
Volatile Organic Compounds																					
Fashion Care HSRA Site Constituents of Interest																					
1,1-Dichloroethene		75-35-4	0.007	0.5229	0.577	4.12	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.5	<0.1	<0.25	<0.5
cis-1, 2-Dichloroethene		156-59-2	0.53	1.02**	12.8	91.3	0.0014J	<0.005	0.0011J	0.078	**0.0074**	0.027	<0.005	<0.005	<0.005	0.0094	**2.2**	**2.7**	**0.78**	**9.7**	**13**
Tetrachloroethene (PCE)		127-18-4	0.005**	0.005*	0.286	0.082	0.0046J	<0.005	**0.018**	**0.23**	**0.01**	**0.027**	<0.005	<0.005	<0.005	<0.005	<0.1	<0.5	<0.1	**9.0**	**12**
trans-1, 2-Dichloroethene		156-60-5	0.1	2**	0.174	1.24	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.046J	<0.5	<0.1	0.057J	<0.5
Trichloroethene (TCE)		79-01-6	0.005**	0.0345	1.02	0.290	<0.005	<0.005	0.0026J	**0.054**	**0.02**	**0.023**	<0.005	<0.005	<0.005	<0.005	**0.02J**	<0.5	<0.1	**6.7**	**11**
Vinyl Chloride		75-01-4	0.002**	0.0033	0.27	0.097	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	**0.0061**	**0.0032**	<0.002	<0.002	**0.035J**	<0.2	<0.04	**0.81**	**0.46**
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laboratory Artifacts																					
1,2-Dichlorobenzene		95-50-1	NA(1)	NA(1)	NC	NC	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.5	<0.1	<0.25	<0.5
Acetone		67-64-1	4	45.6	NC	NC	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.6	<5	<1.0	<2.5	<5
Chlorobenzene		108-90-7	NA(1)	NA(1)	NC	NC	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.5	<0.1	<0.25	<0.5
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																					
1,2-Dibromoethane (EDB)		106-93-4	PRC	PRC	NC	NC	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.5	<0.1	<0.25	<0.5
1, 2-Dichloroethane		107-06-2	PRC	PRC	NC	NC	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.001	<0.005	<0.001	<0.005	<0.1	<0.5	<0.1	<0.25	<0.5
2-Butanone (MEK)		78-93-3	PRC	PRC	NC	NC	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.81J	<5.0	<1.0	<2.5	<5.0
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	PRC	NC	NC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.2	<1.0	<0.2	<0.5	<1.0
Benzene		71-43-2	PRC	PRC	NC	NC	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.001	<0.005	<0.001	<0.005	3.5	5.3	1.5	0.33	<0.5
Cyclohexane		110-82-7	PRC	PRC	NC	NC	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.12	<0.5	0.12	0.17J	<0.5
Ethylbenzene		100-41-4	PRC	PRC	NC	NC	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.001	<0.005	<0.001	<0.005	0.55	1.2	1.4	0.065J	<0.5
Isopropylbenzene		98-82-8	PRC	PRC	NC	NC	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.027J	<0.5	0.044J	<0.25	<0.5
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	PRC	NC	NC	0.047	0.046	<0.005	0.027	**0.0033**	0.012	**0.0021**	<0.005	<0.001	<0.005	8.1	10	0.62	<0.25	<0.5
Styrene		100-42-5	PRC	PRC	NC	NC	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.5	<0.1	<0.25	<0.5
Toluene		108-88-3	PRC	PRC	NC	NC	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.001	<0.005	<0.001	<0.005	4.6	9.8	4.7	0.086J	<0.5
Xylenes, Total		1330-20-7	PRC	PRC	NC	NC	<0.01	<0.005	<0.01	<0.005	<0.001	<0.005	<0.001	<0.005	<0.001	<0.005	3.15	7.7	6.3	0.081J	<0.5

NOTES:

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker
PRC,	Pertroleum related constituent
NA(1),	Not Applicable - fumigant-insecticide properly applied
NA(2),	Not Applicable - Petroleum related constituent which has no In-Stream Water Quality Stanc
NR,	Not regulated
***,**	Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Type 1 RRS has a hi
****,**	RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RR!
FPP,	Free-phase petroleum present in the monitoring well
NC,	Not calculated.

Table 3

Cummulative Groundwater and Surface Water Analytical Data - Dectected Constituents

Fashion Care/Executive Care VRP Site (HSI# 10786)

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 4 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		Stantec UST Data MW-1	Stantec UST Data MW-2R	MW-2R	MW-2R	Stantec UST Data MW-3	Stantec UST Data MW-4R	Stantec UST Data MW-8	MW-8	Stantec UST Data MW-9R	MW-9R	MW-9R	Stantec UST Data RW-13 (MW-10R)	Stantec UST Data MW-11	MW-11	MW-11[3]	Stantec UST Data MW-12
	Date Sampled				Construction Worker	Utility Worker	6/7/08	6/7/08	9/9/08	3/8/10	6/7/08	6/7/08	6/7/08	3/9/10	6/7/08	9/9/08	3/9/10	6/7/08	6/7/08	9/9/08	3/9/10	6/7/08
Volatile Organic Compounds																						
Fashion Care HSRA Site Constituents of Interest																						
1,1-Dichloroethene		75-35-4	0.007	0.5229	0.577	4.12	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005
cis-1, 2-Dichloroethene		156-59-2	0.53	1.02**	12.8	91.3	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	0.110	0.220	**1.7**	<0.005	<0.005	<0.001	0.021	<0.005
Tetrachloroethene (PCE)		127-18-4	0.005**	0.005*	0.286	0.082	FPP	<0.005	<0.001	<0.005	<0.005	<0.013	<0.005	<0.005	**0.12**	**0.1**	**1.7**	<0.005	<0.005	0.0028	**0.026**	<0.005
trans-1, 2-Dichloroethene		156-60-5	0.1	2**	0.174	1.24	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	0.021	<0.005	<0.005	<0.001	0.0011J	<0.005
Trichloroethene (TCE)		79-01-6	0.005**	0.0345	1.02	0.290	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	**0.021**	**0.022**	**0.62**	<0.005	<0.005	<0.001	**0.016**	<0.005
Vinyl Chloride		75-01-4	0.002**	0.0033	0.27	0.097	FPP	<0.002	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.1**	**0.087**	<0.002	<0.002	<0.001	0.001J	<0.002
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laboratory Artifacts																						
1,2-Dichlorobenzene		95-50-1	NA(1)	NA(1)	NC	NC	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005
Acetone		67-64-1	4	45.6	NC	NC	FPP	<0.05	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.002	<0.05	<0.05
Chlorobenzene		108-90-7	NA(1)	NA(1)	NC	NC	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																						
1,2-Dibromoethane (EDB)		106-93-4	PRC	PRC	NC	NC	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005
1, 2-Dichloroethane		107-06-2	PRC	PRC	NC	NC	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005
2-Butanone (MEK)		78-93-3	PRC	PRC	NC	NC	FPP	<0.05	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.002	<0.05	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	PRC	NC	NC	FPP	<0.01	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.002	<0.01	<0.01
Benzene		71-43-2	PRC	PRC	NC	NC	FPP	<0.005	<0.001	<0.005	0.068	<0.005	1.8	1.0	1.8	1.6	0.83	14.0	<0.005	0.0052	0.047	<0.005
Cyclohexane		110-82-7	PRC	PRC	NC	NC	FPP	<0.005	<0.001	<0.005	0.13	<0.005	0.085	0.075	0.11	0.14	0.12	0.17	<0.005	<0.001	<0.005	<0.005
Ethylbenzene		100-41-4	PRC	PRC	NC	NC	FPP	<0.005	<0.001	<0.005	0.86	<0.005	0.90	1.1	1.8	2.0	1.5	3.9	<0.005	0.0014	0.017	<0.005
Isopropylbenzene		98-82-8	PRC	PRC	NC	NC	FPP	<0.005	<0.001	<0.01	0.095	<0.005	0.071	0.081	0.16	0.19	0.14	0.16	<0.005	<0.001	0.001J	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	PRC	NC	NC	FPP	<0.005	<0.002	<0.005	0.038	<0.005	0.022	0.013	0.089	<0.02	0.15	6.2	0.012	0.013	0.0041J	<0.005
Styrene		100-42-5	PRC	PRC	NC	NC	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005
Toluene		108-88-3	PRC	PRC	NC	NC	FPP	<0.005	<0.001	<0.005	0.220	<0.005	3.5	2.3	0.180	0.26	0.15	41.0	<0.005	<0.001	0.0058	<0.005
Xylenes, Total		1330-20-7	PRC	PRC	NC	NC	FPP	<0.005	<0.002	<0.01	4.10	<0.005	6.2	5.6	3.5	4.05	3.06	22.1	<0.005	<0.002	0.0084J	<0.005

NOTES:

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker
PRC,	Pertroleum related constituent
NA(1),	Not Applicable - fumigant-insecticide properly applied
NA(2),	Not Applicable - Petroleum related constituent which has no In-Stream Water Quality Stanc
NR,	Not regulated
***,**	Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Type 1 RRS has a hi
****,**	RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RR!
FPP,	Free-phase petroleum present in the monitoring well
NC,	Not calculated.

Table 3

Cummulative Groundwater and Surface Water Analytical Data - Dectected Constituents

Fashion Care/Executive Care VRP Site (HSI# 10786)

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 4 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		Stantec UST Data MW-13	MW-13	MW-13	Stantec UST Data MW-14	MW-14	Stantec UST Data MW-15	Stantec UST Data MW-16	Stantec UST Data RW-7 (MW-17)	Stantec UST Data MW-18	Stantec UST Data MW-19	Stantec UST Data MW-20	Stantec UST Data MW-21	Stantec UST Data MW-22	Stantec UST Data MW-23D	MW-23D	MW-23D[3]
	Date Sampled				Construction Worker	Utility Worker	6/7/08	9/8/08	3/11/10	6/7/08	9/8/08	6/7/08	6/7/08	6/7/08	6/7/08	6/7/08	6/7/08	6/7/08	6/7/08	6/7/08	9/9/08	3/9/10
Volatile Organic Compounds																						
Fashion Care HSRA Site Constituents of Interest																						
1,1-Dichloroethene		75-35-4	0.007	0.5229	0.577	4.12	<0.005	<0.001	<0.005	<0.005	0.0027	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005
cis-1, 2-Dichloroethene		156-59-2	0.53	1.02**	12.8	91.3	<0.005	<0.001	<0.005	**2.4**	**2.6**	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	0.068	0.0034	0.095
Tetrachloroethene (PCE)		127-18-4	0.005**	0.005*	0.286	0.082	<0.005	<0.001	<0.005	**0.22**	**0.26**	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.006	<0.005	**26.0**	**1.70**	**18.0**
trans-1, 2-Dichloroethene		156-60-5	0.1	2**	0.174	1.24	<0.005	<0.001	<0.005	<0.005	0.018	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	0.0015J
Trichloroethene (TCE)		79-01-6	0.005**	0.0345	1.02	0.290	<0.005	<0.001	<0.005	**0.23**	**0.26**	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	**0.7**	**0.028**	**0.061**
Vinyl Chloride		75-01-4	0.002**	0.0033	0.27	0.097	<0.002	<0.001	<0.002	**0.34**	**0.83**	<0.002	<0.002	FPP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.002
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laboratory Artifacts																						
1,2-Dichlorobenzene		95-50-1	NA(1)	NA(1)	NC	NC	<0.005	<0.001	<0.005	<0.005	0.0026	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	0.0058	<0.001	0.0021J
Acetone		67-64-1	4	45.6	NC	NC	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	FPP	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.033	<0.05
Chlorobenzene		108-90-7	NA(1)	NA(1)	NC	NC	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																						
1,2-Dibromoethane (EDB)		106-93-4	PRC	PRC	NC	NC	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005
1, 2-Dichloroethane		107-06-2	PRC	PRC	NC	NC	0.024	0.012	<0.005	<0.005	<0.001	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	0.00093J
2-Butanone (MEK)		78-93-3	PRC	PRC	NC	NC	<0.05	<0.002	<0.05	<0.05	<0.002	<0.05	<0.05	FPP	<0.05	<0.05	<0.05	0.051	<0.05	<0.05	<0.002	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	PRC	NC	NC	<0.01	<0.002	<0.01	<0.01	<0.002	<0.01	<0.01	FPP	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.01
Benzene		71-43-2	PRC	PRC	NC	NC	<0.005	<0.001	<0.005	0.14	0.13	1.3	<0.005	FPP	<0.005	<0.005	<0.005	10.0	<0.005	<0.005	<0.001	0.00028J
Cyclohexane		110-82-7	PRC	PRC	NC	NC	<0.005	<0.001	<0.005	0.018	0.026	0.034	<0.005	FPP	<0.005	<0.005	<0.005	0.170	0.053	0.005	<0.001	<0.005
Ethylbenzene		100-41-4	PRC	PRC	NC	NC	<0.005	<0.001	<0.005	<0.005	0.0014	0.013	<0.005	FPP	<0.005	0.0083	<0.005	4.4	0.057	<0.005	<0.001	0.0009J
Isopropylbenzene		98-82-8	PRC	PRC	NC	NC	<0.005	<0.001	<0.01	0.0078	0.01	0.027	<0.005	FPP	<0.005	<0.005	<0.005	0.160	0.027	<0.005	<0.001	0.00036J
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	PRC	NC	NC	0.038	0.19	0.012	0.370	0.13	0.320	<0.005	FPP	0.018	<0.005	<0.005	9.2	<0.005	0.049	0.0018	0.015
Styrene		100-42-5	PRC	PRC	NC	NC	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005
Toluene		108-88-3	PRC	PRC	NC	NC	<0.005	<0.001	<0.005	0.0086	0.015	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	6.6	0.021	<0.005	<0.001	<0.005
Xylenes, Total		1330-20-7	PRC	PRC	NC	NC	<0.005	<0.002	<0.01	<0.005	0.0059	0.0078	<0.005	FPP	<0.005	<0.005	<0.005	23.8	0.220	0.011	0.0011	0.0041J

NOTES:

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker
PRC,	Pertroleum related constituent
NA(1),	Not Applicable - fumigant-insecticide properly applied
NA(2),	Not Applicable - Petroleum related constituent which has no In-Stream Water Quality Stanc
NR,	Not regulated
***,**	Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Type 1 RRS has a hi
****,**	RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RR!
FPP,	Free-phase petroleum present in the monitoring well
NC,	Not calculated.

Table 4
Cummulative Surface Water Sample Data
Fashion Care/Executive Care VRP Site (HSI# 10786)

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		Georgia ISWQS (mg/L)	SW-1	SW-1	SW-1	SW-1	SW-1	SW-1	SW-1	SW-1	SW-1	SW-1	SW-1
	Date Sampled			Construction Worker	Utility Worker		9/8/08	1/5/10	10/6/11	10/7/11	10/8/11	10/9/11	10/21/11	10/22/11	10/23/11	10/24/11	7/11/12
Volatile Organic Compounds																	
Fashion Care HSRA Site Constituents of Interest																	
1,1-Dichloroethene		75-35-4	0.007	0.577	4.12	7.1	<0.001	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005
cis-1, 2-Dichloroethene		156-59-2	0.53	12.8	91.3	-	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Tetrachloroethene (PCE)		127-18-4	0.005**	0.286	0.082	0.0033	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
trans-1, 2-Dichloroethene		156-60-5	0.1	0.174	1.24	10.0	<0.001	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005
Trichloroethene (TCE)		79-01-6	0.005**	1.02	0.290	0.03	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Vinyl Chloride		75-01-4	0.002**	0.27	0.097	0.0024	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laboratory Artifacts																	
1,2-Dichlorobenzene		95-50-1	NA(1)	NC	NC	1.3	<0.001	<0.05	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Acetone		67-64-1	4	NC	NC	-	<0.002	<0.05	0.022	<0.02	<0.02	<0.02	0.021	0.034	0.046	0.19	<0.05
Chlorobenzene		108-90-7	NA(1)	NC	NC	1.6	<0.001	<0.05	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																	
1,2-Dibromoethane (EDB)		106-93-4	PRC	NC	NC	-	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
1, 2-Dichloroethane		107-06-2	PRC	NC	NC	0.037	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
2-Butanone (MEK)		78-93-3	PRC	NC	NC	-	<0.002	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	NC	NC	-	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	PRC	NC	NC	0.051	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Chloromethane		74-87-3	PRC	NC	NC	1.5	<0.001	<0.01	<0.001	<0.001	0.002	0.002	<0.001	<0.001	<0.001	<0.001	<0.01
Cyclohexane		110-82-7	PRC	NC	NC	-	<0.001	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005
Ethylbenzene		100-41-4	PRC	NC	NC	2.1	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Isopropylbenzene		98-82-8	PRC	NC	NC	-	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	NC	NC	-	<0.002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Styrene		100-42-5	PRC	NC	NC	-	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Toluene		108-88-3	PRC	NC	NC	5.98	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Xylenes, Total		1330-20-7	PRC	NC	NC	-	<0.002	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005

NOTES:

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker
	Exceeds ISWQS

ISWQS, Georgia In-Stream Water Quality Standards (Rule 391-3-6-.03 Water Use Classifications and Water Quality Standards) Eff. 06/05/11.
-, No ISWQS
PRC, Pertroleum related constituent
NA(1), Not Applicable - fumigant-insecticide properly applied
, RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS in Condition 8.
NC, Not calculated
SW-1, Upstream sample location
SW-2, Adjacent to groundwater contaminant plume sample location
SW-3, Downstream Sample location

Table 4
Cummulative Surface Water Sample Data
Fashion Care/Executive Care VRP Site (HSI# 10786)

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		Georgia ISWQS (mg/L)	SW-2	SW-2	SW-2	SW-2	SW-2	SW-2	SW-2	SW-2	SW-2	SW-2	SW-2
	Date Sampled			Construction Worker	Utility Worker		9/8/08	1/5/10	10/6/11	10/7/11	10/8/11	10/9/11	10/21/11	10/22/11	10/23/11	10/24/11	7/11/12
Volatile Organic Compounds																	
Fashion Care HSRA Site Constituents of Interest																	
1,1-Dichloroethene		75-35-4	0.007	0.577	4.12	7.1	<0.001	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005
cis-1, 2-Dichloroethene		156-59-2	0.53	12.8	91.3	-	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Tetrachloroethene (PCE)		127-18-4	0.005**	0.286	0.082	0.0033	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
trans-1, 2-Dichloroethene		156-60-5	0.1	0.174	1.24	10.0	<0.001	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005
Trichloroethene (TCE)		79-01-6	0.005**	1.02	0.290	0.03	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Vinyl Chloride		75-01-4	0.002**	0.27	0.097	0.0024	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laboratory Artifacts																	
1,2-Dichlorobenzene		95-50-1	NA(1)	NC	NC	1.3	<0.001	<0.05	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Acetone		67-64-1	4	NC	NC	-	<0.002	<0.05	<0.02	<0.02	<0.02	<0.02	0.022	0.037	0.04	0.18	<0.05
Chlorobenzene		108-90-7	NA(1)	NC	NC	1.6	<0.001	<0.05	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																	
1,2-Dibromoethane (EDB)		106-93-4	PRC	NC	NC	-	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
1, 2-Dichloroethane		107-06-2	PRC	NC	NC	0.037	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
2-Butanone (MEK)		78-93-3	PRC	NC	NC	-	<0.002	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	NC	NC	-	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	PRC	NC	NC	0.051	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Chloromethane		74-87-3	PRC	NC	NC	1.5	<0.001	<0.01	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.01
Cyclohexane		110-82-7	PRC	NC	NC	-	<0.001	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005
Ethylbenzene		100-41-4	PRC	NC	NC	2.1	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Isopropylbenzene		98-82-8	PRC	NC	NC	-	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	NC	NC	-	<0.002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Styrene		100-42-5	PRC	NC	NC	-	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Toluene		108-88-3	PRC	NC	NC	5.98	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Xylenes, Total		1330-20-7	PRC	NC	NC	-	<0.002	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005

NOTES:

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker
	Exceeds ISWQS

ISWQS, Georgia In-Stream Water Quality Standards (Rule 391-3-6-.03 Water Use Classifications and Water Quality Standards) Eff. 06/05/11.
-, No ISWQS
PRC, Pertroleum related constituent
NA(1), Not Applicable - fumigant-insecticide properly applied
, RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS in Condition 8.
NC, Not calculated
SW-1, Upstream sample location
SW-2, Adjacent to groundwater contaminant plume sample location
SW-3, Downstream Sample location

Table 4
Cummulative Surface Water Sample Data
Fashion Care/Executive Care VRP Site (HSI# 10786)

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		Georgia ISWQS (mg/L)	SW-3	SW-3	SW-3	SW-3	SW-3	SW-3	SW-3	SW-3	SW-3	SW-3	SW-3
	Date Sampled			Construction Worker	Utility Worker		9/8/08	1/5/10	10/6/11	10/7/11	10/8/11	10/9/11	10/21/11	10/22/11	10/23/11	10/24/11	7/11/12
Volatile Organic Compounds																	
Fashion Care HSRA Site Constituents of Interest																	
1,1-Dichloroethene		75-35-4	0.007	0.577	4.12	7.1	<0.001	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005
cis-1, 2-Dichloroethene		156-59-2	0.53	12.8	91.3	-	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Tetrachloroethene (PCE)		127-18-4	0.005**	0.286	0.082	0.0033	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
trans-1, 2-Dichloroethene		156-60-5	0.1	0.174	1.24	10.0	<0.001	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005
Trichloroethene (TCE)		79-01-6	0.005**	1.02	0.290	0.03	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Vinyl Chloride		75-01-4	0.002**	0.27	0.097	0.0024	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laboratory Artifacts																	
1,2-Dichlorobenzene		95-50-1	NA(1)	NC	NC	1.3	<0.001	<0.05	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Acetone		67-64-1	4	NC	NC	-	<0.002	<0.05	<0.02	<0.02	<0.02	<0.02	0.023	0.031	0.051	0.2	<0.05
Chlorobenzene		108-90-7	NA(1)	NC	NC	1.6	<0.001	<0.05	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																	
1,2-Dibromoethane (EDB)		106-93-4	PRC	NC	NC	-	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
1, 2-Dichloroethane		107-06-2	PRC	NC	NC	0.037	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
2-Butanone (MEK)		78-93-3	PRC	NC	NC	-	<0.002	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	NC	NC	-	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	PRC	NC	NC	0.051	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Chloromethane		74-87-3	PRC	NC	NC	1.5	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01
Cyclohexane		110-82-7	PRC	NC	NC	-	<0.001	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005
Ethylbenzene		100-41-4	PRC	NC	NC	2.1	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Isopropylbenzene		98-82-8	PRC	NC	NC	-	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	NC	NC	-	<0.002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Styrene		100-42-5	PRC	NC	NC	-	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Toluene		108-88-3	PRC	NC	NC	5.98	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Xylenes, Total		1330-20-7	PRC	NC	NC	-	<0.002	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005

NOTES:

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker
	Exceeds ISWQS

ISWQS, Georgia In-Stream Water Quality Standards (Rule 391-3-6-.03 Water Use Classifications and Water Quality Standards) Eff. 06/05/11.
-, No ISWQS
PRC, Pertroleum related constituent
NA(1), Not Applicable - fumigant-insecticide properly applied
, RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS in Condition 8.
NC, Not calculated
SW-1, Upstream sample location
SW-2, Adjacent to groundwater contaminant plume sample location
SW-3, Downstream Sample location

Table 5

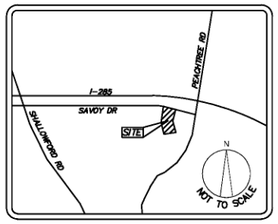
Approximate Professional Service Hours - June 3, 2012 through December 2, 2012

Fashion Care/Executive Care VRP Site (HSI# 10786)

Company	Month/Year	Project Manager / P.G. hours	Total Hours Worked
Winter Environmental	June 2012	39.5	62.5
Winter Environmental	July 2012	26	86
Winter Environmental	August 2012	8	14.75
Winter Environmental	September 2012	0	1
Woodard & Curran	September 2012	4	4
Woodard & Curran	October 2012	8.5	8.5
Woodard & Curran	November 2012	13	18.25
	Total Estimated Hours	**99.00**	**195.00**

Note: The above hours do not include subcontractor hours worked for Winter Environmental or Woodard & Curran.

Figures



VICINITY MAP

LEGEND

APPROXIMATE PROPERTY LINE

ASL LIMITED PARTNERSHIP PROPERTY

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

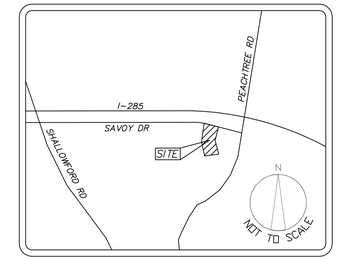
Drawn By: GHA	Date: 8-23-11
Checked by: CTM	Project No. 08096

WOODARD & CURRAN

Figure 1

TAX MAP

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341



VICINITY MAP

LEGEND

- Monitoring Well
- Sediment Sample Location
- Surface water Sample Location
- Stream Gauge Location

Referenced Drawing is Based off of Landpro Survey

PROJECT NO.	DRAWN	DATE
08096	CTM	6/28/10

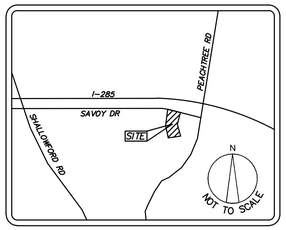
WOODARD & CURRAN

Figure 2

Groundwater, Surface Water and Sediment Sample Location Map

Fashion Care / Executive Care Site

2211 Savoy Dr
Atlanta, GA 30341



VICINITY MAP

LEGEND

- APPROXIMATE PROPERTY LINE
- SD-1 SEDIMENT SAMPLE LOCATION
- MW-17 ABANDONED MONITORING WELL
- SW-1 SURFACE WATER SAMPLING LOCATION
- FMW-15 [80.95] GROUNDWATER SAMPLE LOCATION [GROUNDWATER ELEVATION]
- GROUNDWATER ELEVATION CONTOUR, MSL (DASHED WHERE INFERRED). ARROW DENOTES FLOW DIRECTION.

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

0 30 60
SCALE IN FEET

N

SAVOY DR.
2201 SAVOY DRIVE 18-343-13-003
FASHION CAR/EXECUTIVE CARE 2211 SAVOY DRIVE 18-343-13-002
RESTAURANT
RESTAURANT
EDGE OF ASPHALT
4306 NORTH PEACHTREE ROAD 18-343-13-005
FASHION CLEANERS DRYCLEANERS
RESTAURANT
Shed
UST Area
Canopy
Fuel Pumps
FF=110.00
EZ-Serve Car Station Bldg. No. 4308
Car Wash
4308 NORTH PEACHTREE ROAD 18-343-13-001
RETAIL / DENTIST
EDGE OF ASPHALT
24"RCP
NORTH SHALLOWFORD ROAD 18-333-02-023
NORTH PEACHTREE RD.
Sidewalk
Bus Stop
D.O.T. MH
SIG. BOX
Sign
MH
TOP OF BANK
NANCY CREEK
C.L. CREEK
TOP OF BANK
CULVERT
TOP= 94.6
EDGE OF WATER
TOP OF BANK
SEDIMENT SAMPLE COLLECTED DOWN STREAM IN FROM OF CULVERT UNDER SHALLOWFORD ROAD

FMW-1 [83.62]
FMW-2 [83.62]
FMW-3 [83.81]
FMW-4 [83.31]
FMW-5 [82.40]
FMW-6 [82.24]
FMW-7 [83.21]
FMW-8 [83.50]
FMW-9 [82.37]
FMW-10 [82.15]
FMW-11 [82.39]
FMW-12 [83.01]
FMW-13 [82.13]
FMW-14 [81.15]
FMW-15 [80.95]
FMW-16 [80.57]
SB-24 [83.86]
SB-25 [83.70]
SB-26 [85.53]
SW-1
SW-2
SW-3
SG-2
SD-1
SD-3
MW-1
MW-3
MW-4R
MW-8
MW-9R
MW-10R
MW-11
MW-12
MW-13
MW-14
MW-15
MW-16
MW-17
MW-18
MW-19
MW-20
MW-21
MW-22
MW-23D
MW-25

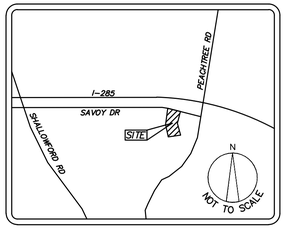
Drawn By: GHA	Date: 12-11-12
Checked by: LD	Project No.

Woodard & Curran
2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
770-622-6766

WOODARD & CURRAN

FIGURE 3
POTENTIOMETRIC SURFACE MAP – JULY 10, 2012

FASHION CARE/EXECUTIVE CARE VRP SITE (HSI #10786)
2211 SAVOY DRIVE
CHAMBLEE, GA 30341



VICINITY MAP

LEGEND

- APPROXIMATE PROPERTY LINE
- SD-1 SEDIMENT SAMPLE LOCATION
- MW-17 ABANDONED MONITORING WELL
- FMW-15 [80.95] GROUNDWATER SAMPLE LOCATION
- SW-1 SURFACE WATER SAMPLE LOCATION
- TYPE 1 & 3 RRS
- TYPE 5 CONSTRUCTION WORKER RRS
- TYPE 5 UTILITY WORKER RRS

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

0 30 60
SCALE IN FEET

N

SAVOY DR.

2201 SAVOY DRIVE
18-343-13-003

FASHION CAR/EXECUTIVE CARE
2211 SAVOY DRIVE
18-343-13-002

4306 NORTH PEACHTREE ROAD
18-343-13-005

4308 NORTH PEACHTREE ROAD
18-343-13-001

NORTH SHALLOWFORD ROAD
18-333-02-023

RESTAURANT

RESTAURANT

FASHION CLEANERS
DRYCLEANERS

RESTAURANT

Shed

EZ-Serve Car Wash Bldg.
FF=100.00
No. 4308

Car Wash

UST Area

Canopy

Fuel Pumps

RETAIL / DENTIST

EDGE OF ASPHALT

EDGE OF ASPHALT

24"RCP

Sidewalk

Bus Stop

D.O.T. MH

SIG. BOX

Sign

MH

NORTH PEACHTREE RD.

NANCY CREEK

C.L. CREEK

TOP OF BANK

TOP OF BANK

TOP OF BANK

EDGE OF WATER

TOP OF BANK

CULVERT

TOPes 94.6

SD-1

SEDIMENT SAMPLE COLLECTED DOWN STREAM IN FROM OF CULVERT UNDER SHALLOWFORD ROAD

SD-3

SW-1

SW-2

SW-3

SG-2

MW-1
MW-2R
MW-3
MW-4R
MW-8
MW-9R
MW-10R
MW-11
MW-12
MW-13
MW-14
MW-15
MW-16
MW-17
MW-18
MW-19
MW-20
MW-21
MW-22
MW-23D

FMW-1
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.18
TETRACHLOROETHENE (PCE) – 0.0097
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – 0.012
VINYL CHLORIDE – 0.055

FMW-2
ALL ND

FMW-3
ALL ND

FMW-4
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 75
TETRACHLOROETHENE (PCE) – 1.5
TRANS-1,2-DICHLOROETHENE – 0.54
TRICHLOROETHENE (TCE) – 1.1
VINYL CHLORIDE – 2.4

FMW-5
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.059
TETRACHLOROETHENE (PCE) – 0.0073
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – 0.0068
VINYL CHLORIDE – 0.0071

FMW-6
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.87
TETRACHLOROETHENE (PCE) – 2.6
TRANS-1,2-DICHLOROETHENE – 0.016
TRICHLOROETHENE (TCE) – 0.17
VINYL CHLORIDE – 0.0078

FMW-7
ALL ND

FMW-8
ALL ND

FMW-9
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.72
TETRACHLOROETHENE (PCE) – 1.8
TRANS-1,2-DICHLOROETHENE – 0.01
TRICHLOROETHENE (TCE) – 0.13
VINYL CHLORIDE – ND

FMW-10
ALL ND

FMW-11
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – ND
TETRACHLOROETHENE (PCE) – 0.03
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – ND
VINYL CHLORIDE – ND

FMW-12
ALL ND

FMW-13
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.078
TETRACHLOROETHENE (PCE) – 0.23
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – 0.054
VINYL CHLORIDE – 0.002

FMW-14
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.027
TETRACHLOROETHENE (PCE) – 0.027
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – 0.023
VINYL CHLORIDE – ND

FMW-15
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – ND
TETRACHLOROETHENE (PCE) – ND
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – ND
VINYL CHLORIDE – 0.0032

FMW-16
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.0094
TETRACHLOROETHENE (PCE) – ND
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – ND
VINYL CHLORIDE – ND

SB-24
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 2.7
TETRACHLOROETHENE (PCE) – ND
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – ND
VINYL CHLORIDE – ND

SB-25

SB-26
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 13
TETRACHLOROETHENE (PCE) – 12
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – 11
VINYL CHLORIDE – 0.46

Drawn By: GHA	Date: 12-11-12
Checked by: LD	Project No.

Woodard & Curran
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WOODARD & CURRAN

FIGURE 4
JULY 2012 GROUNDWATER DATA MAP

FASHION CARE/EXECUTIVE CARE VRP SITE (HSI #10786)
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

Figure 5
Flow Chart – Voluntary Investigation & Remediation Plan Tasks
(Completed tasks are noted.)

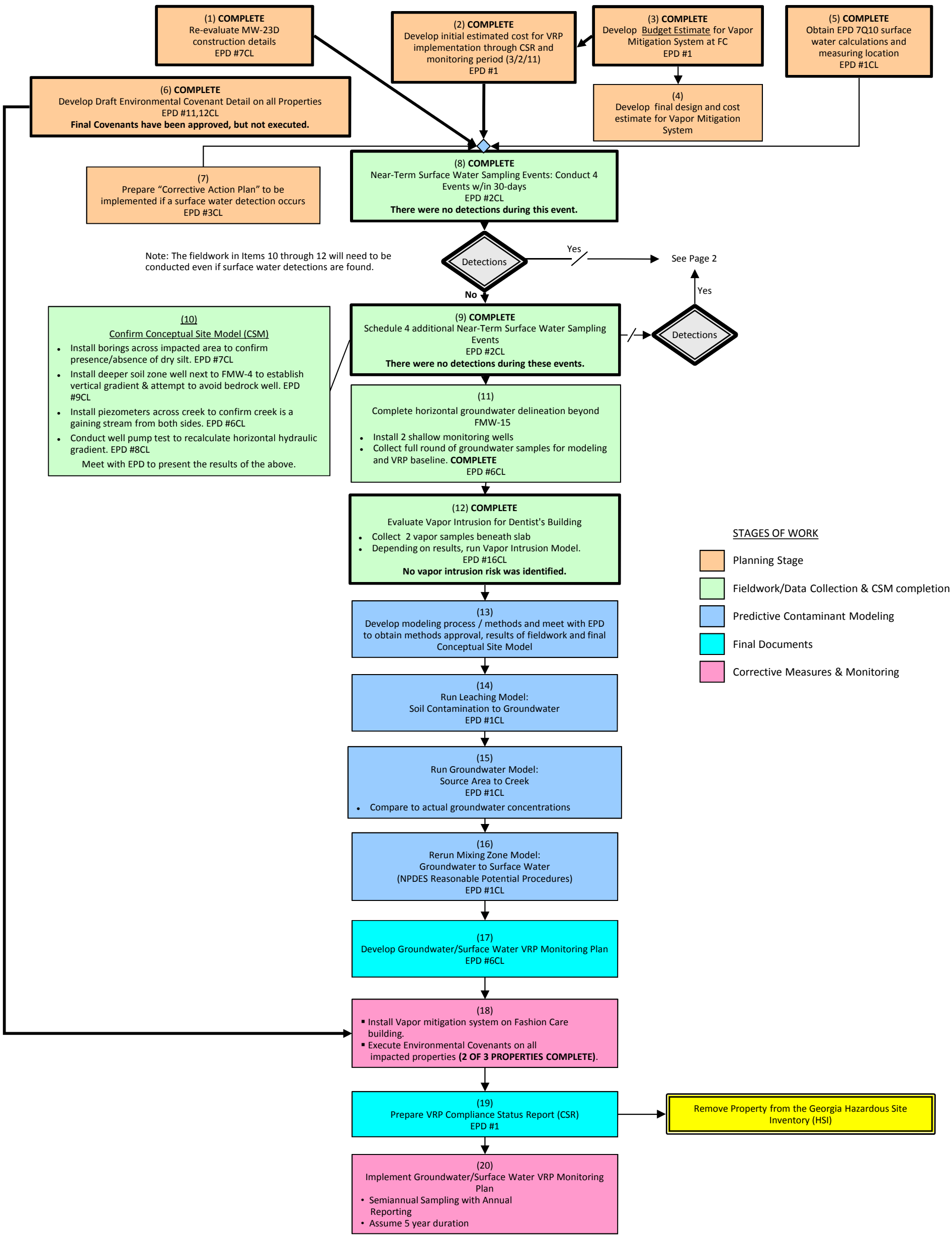
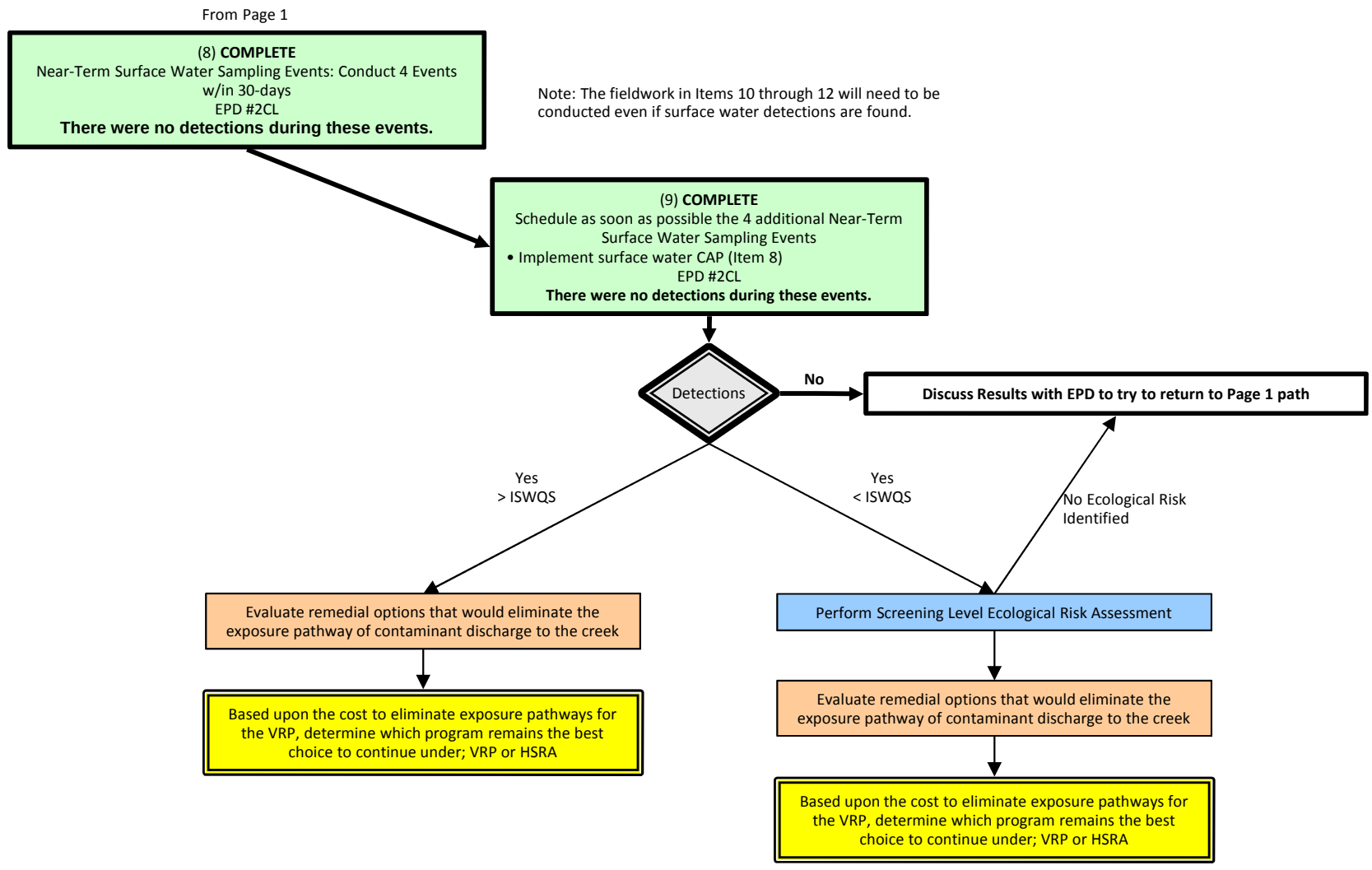
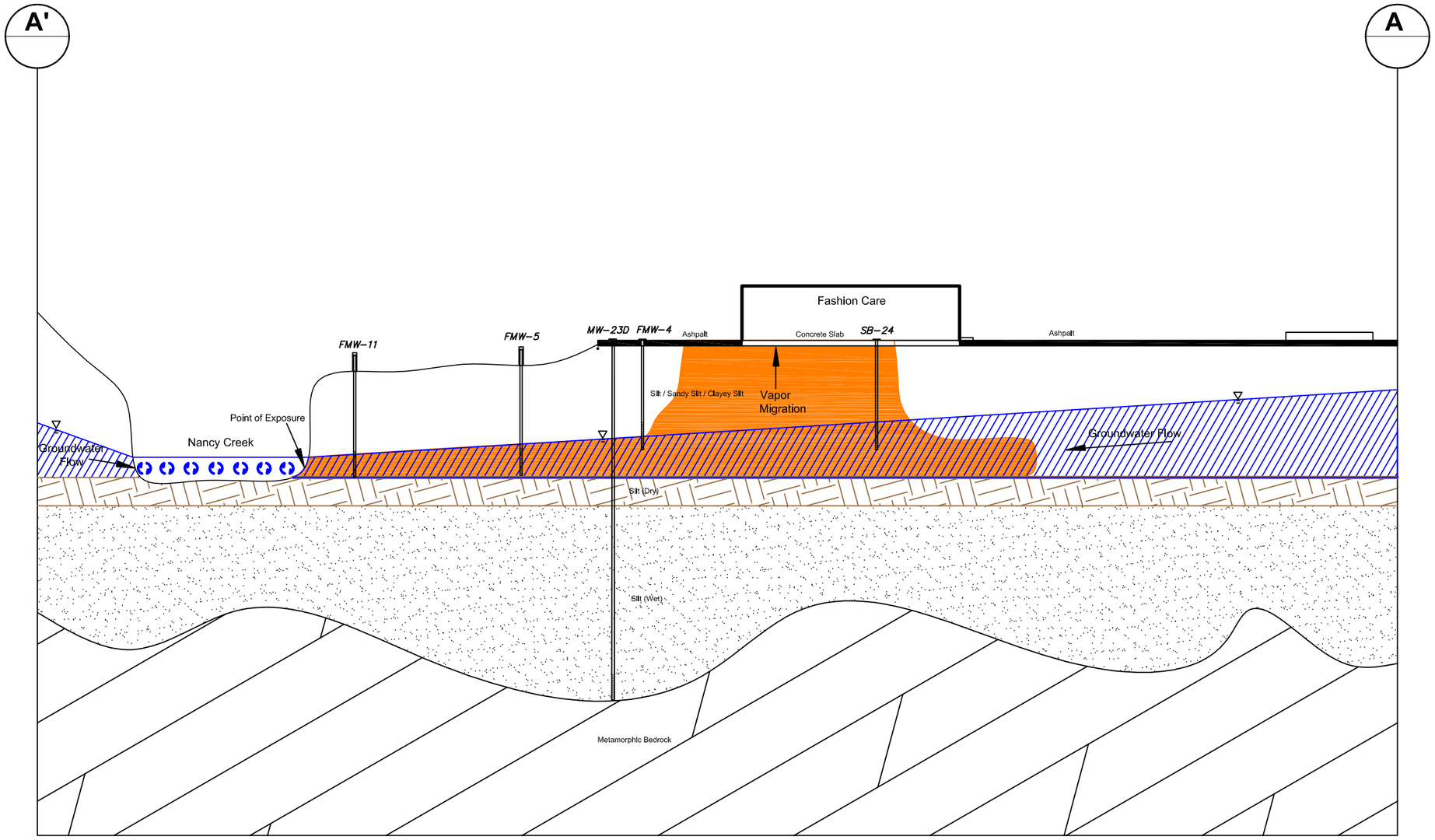


Figure 5 Contd.

Flow Chart – Voluntary Investigation & Remediation Plan Tasks

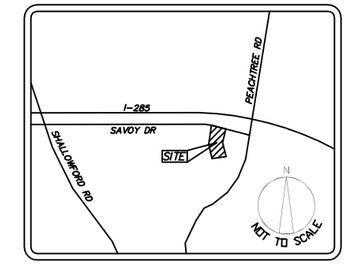


ISWQS = Georgia In-Stream Water Quality Standards



0' 30' 60' 90'

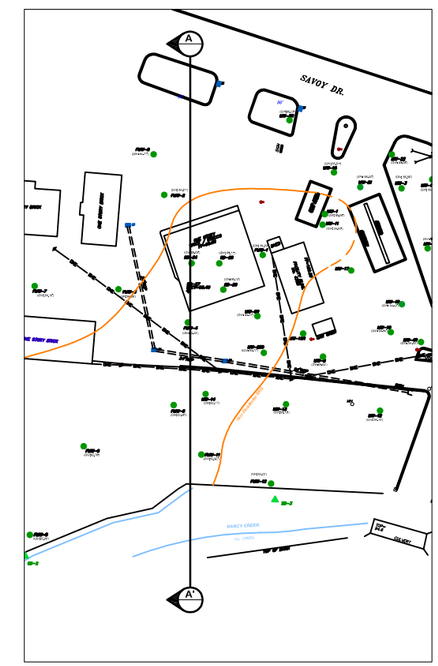
Approximate HORIZONTAL SCALE



VICINITY MAP

LEGEND

- Impacted Soil
- Impacted Groundwater
- Groundwater



Referenced Drawing is Based off of Landpro Survey

PROJECT NO.	DRAWN	DATE
08096	GTM	6/28/10

WOODARD & CURRAN

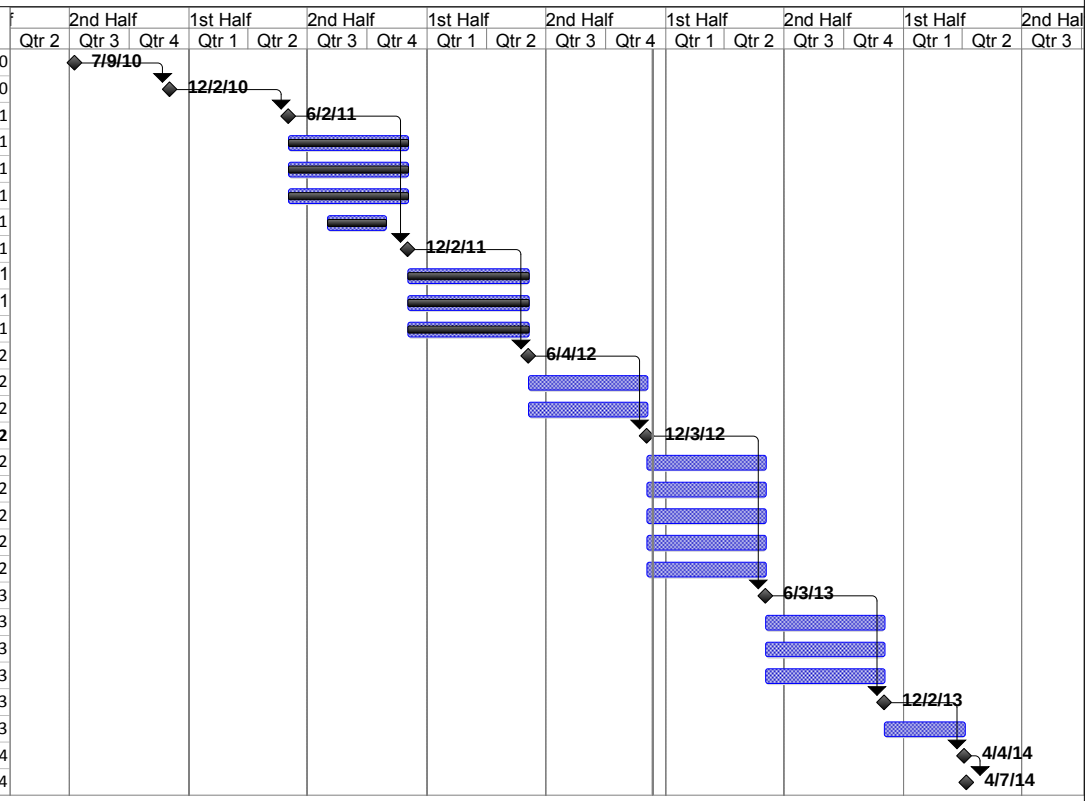
Figure 6
Conceptual Site Model
Fashion Care / Executive Care Site
2211 Savoy Dr
Chamblee, GA 30341

Figure 7

Estimated Voluntary Remediation Plan Schedule

Fashion Care/Executive Care Site, 2211 Savoy Drive, Chamblee, Georgia

ID	Task Name	Duration	Start
1	**VIRP Application Submittal**	0 days	Fri 7/9/10
2	**EPD Approval of VIRP**	0 days	Thu 12/2/10
3	**1st VIRP Status Report**	0 days	Thu 6/2/11
4	Vapor Sampling Evaluation/J&E Modeling	132 days	Thu 6/2/11
5	Revise Draft Ecs	132 days	Thu 6/2/11
6	Final Design for Vapor Mitigation System	132 days	Thu 6/2/11
7	Conduct 8 Surface Water Sampling Events	65 days	Mon 8/1/11
8	**2nd VIRP Status Report**	0 days	Fri 12/2/11
9	Finalize J&E Vapor Models	132 days	Fri 12/2/11
10	Finalize Utility & Construction Worker Standards	132 days	Fri 12/2/11
11	Finalize Environmental Covenants	132 days	Fri 12/2/11
12	**3rd VIRP Status Report**	0 days	Mon 6/4/12
13	Full Round of Groundwater & Surface Water Samples	131 days	Mon 6/4/12
14	Execute Environmental Covenants (2 of 3)	131 days	Mon 6/4/12
15	**4th VIRP Status Report**	**0 days**	**Mon 12/3/12**
16	Execute ASL Environmental Covenant	131 days	Mon 12/3/12
17	Prepare Surface Water CAP	131 days	Mon 12/3/12
18	Complete Horizontal Groundwater Delineation	131 days	Mon 12/3/12
19	Fieldwork to Confirm CSM	131 days	Mon 12/3/12
20	Install Vapor Mitigation System - Fashion Care Building	131 days	Mon 12/3/12
21	**5th VIRP Status Report**	0 days	Mon 6/3/13
22	Complete Vertical Groundwater Delineation	131 days	Mon 6/3/13
23	Site Fate & Transport modeling	131 days	Mon 6/3/13
24	Prepare VRP Groundwater & Surface Water Monitoring Plan	131 days	Mon 6/3/13
25	**6th VIRP Status Report**	0 days	Mon 12/2/13
26	Prepare VRP CSR	90 days	Mon 12/2/13
27	**Submit VRP CSR**	0 days	Fri 4/4/14
28	**Implement Groundwater & Surface Water Monitoring Plan**	0 days	Mon 4/7/14



Appendix A
EPD Correspondence dated February 22, 2012

Georgia Department of Natural Resources

2 Martin Luther King, Jr. Dr. S.E., Suite 1462 East, Atlanta, Georgia 30334
Mark Williams, Commissioner
Environmental Protection Division
Judson H. Turner, Director
Land Protection Branch
Mark Smith, Branch Chief

Reply To:
Response and Remediation Program
2 Martin Luther King, Jr. Drive, S.E.
Suite 1462, East Tower
Atlanta, Georgia 30334-9000
Office 404-657-8600 Fax 404-657-0807

February 22, 2012

COPY

VIA E-MAIL AND REGULAR MAIL

John F. Rowan, Sr. Item IV Trust
c/o Catherine Norris
P.O. Box 197
Carmel Valley, California 93924

Re: Voluntary Remediation Program Semi-Annual Status Report, December 2, 2011
Voluntary Remediation Program Semi-Annual Status Report, June 2, 2011
Voluntary Remediation Program Supplemental Report, June 29, 2011
Fashion Care/Executive Care Site, HSI No. 10786
2211 Savoy Drive, Chamblee, Dekalb County, Georgia
Tax Parcel ID Nos. 18-343-13-002, 18-343-13-005, 18-343-13-001, & 18-333-02-023

Dear Ms. Norris:

The Georgia Environmental Protection Division (EPD) has reviewed the above-referenced reports submitted by Winter Environmental in accordance with the Voluntary Remediation Program Act (the Act) for the above-referenced properties. EPD offers the following comments which should be addressed pursuant to the Act:

1. EPD provided comments on the draft Uniform Environmental Covenants (UECs) via email on February 10, 2012. Although we believe these comments are complete, they may change as more information is gained regarding the site and the Act. The comments also assumed that the vapor intrusion evaluations are correct and that current concentrations will not be exceeded in the future. The comments below and the results of future modeling may initiate additional changes to the UECs.

2. The monitoring wells installed during the investigation and remediation of the former EZ Serve site (UST Facility ID No. 09000341) have been abandoned as described in the August 30, 2011 Completion Report for the facility. Many of those wells served as delineation wells up/side-gradient of the Fashion Care site, and do not need to be replaced. However, certain wells, such as MW-23D, provided important characterization and monitoring of the plume and will be necessary for model verification. In the next progress report, please include a schedule for replacement of MW-23D (provide a figure showing new location if appropriate) and any other wells needed to verify the model.

3. In future summaries of professional service hours billed, please separate the hours billed by the Professional Engineer/Geologist overseeing the project from support staff hours.

Vapor Intrusion Analysis

4. Section 3.4 of the December 2011 report notes that the vapor mitigation system for Parcel 18-343-13-002 has been designed and will be installed in 2012. The progress report that contains the as-built should also explain the rationale behind the design including any

testing, discuss the building parameters that will allow this design to function properly, and demonstrate that the restaurant space is also protected.

5. The toxicity and chemical-specific parameter values were not updated prior to running the Johnson & Ettinger model for some of the volatile substances in soil gas. These values should be consistent with the values provided in the most current version of the Regional Screening Levels Table (RSLT) available prior to submittal of the report [e.g., tetrachloroethylene (RfC), trichloroethylene (RfC and IUR), acetone (RfC), chloroform (RfC), etc.]. Parcel 18-222-02-023 does not require re-analysis since the results already recommend vapor intrusion remedial measures.

6. The summary table of parameters used in the vapor intrusion analysis contains an inadequate exposure frequency (EF) value of 30 days/yr. However, the models were run using an appropriate EF of 350 days/yr. Additionally, the input parameter for temperature designated in the user guidance for the southeastern region of the United States is 19.4°C. This is the recommended input value based on the average temperature of shallow groundwater for the southeastern region. This does not significantly impact the model results, but should be revised if the model is rerun.

Type 5 RRS Calculations

The Type 5 risk reduction standards (RRS) presented in Table 1 of Appendix D of the December 2011 report are hereby approved with the following revisions:

7. The toxicity values listed in Appendix D for cis-1,2-dichloroethylene (cis-1,2-DCE) and trichloroethylene (TCE) have been updated in the most current version of the RSLT. The toxicity values for tetrachloroethene (PCE) were updated in IRIS on February 10, 2012. The updated values are provided below for your convenience.

Regulated Substance	**RfD_o (mg/kg-d)**	**RfD_i (mg/kg-d)**	**SF_o $(mg/kg\text{-}d)^{-1}$**	**SF_i $(mg/kg\text{-}d)^{-1}$**
cis-1,2-DCE	2.0E-03 (IRIS)	NA	NA	NA
TCE	5.0E-04 (IRIS)	5.7E-04 (IRIS)	4.6E-02 (IRIS)	1.4E-02 (IRIS)
PCE	6.0E-03 (IRIS)	1.1E-02 (IRIS)	2.1E-03 (IRIS)	9.1E-04 (IRIS)

NA – No toxicity value available in RSLT

The resulting Type 5 RRS for the construction worker and utility worker are as follows:

Regulated Substance	**Construction Worker - Soil (mg/kg)**	**Utility Worker - Soil (mg/kg)**	**Construction Worker – Ground water (mg/L)**	**Utility Worker – Groundwater (mg/L)**
cis-1,2-DCE	619	4420	2.6	18
TCE	6.8	49	0.006	0.041
PCE	142	1015	0.12	0.82

8. The Type 5 soil RRS for 1,1-dichloroethene are incorrect even though the method and exposure assumptions used were correct. EPD derived a Type 5 soil RRS of 253 and 1,805 mg/kg for the construction worker and utility worker, respectively.

9. Minor changes have been made to the chemical-specific parameters for the following regulated substances. It should be noted that this does not impact any of the calculated volatilization factors in Appendix D, Table 4.

   - 1,1-Dichloroethene: Dia – 0.0863 cm^2/s; Henry's Law Constant– 0.0261 atm-m^3/mol
   - cis-1,2-Dichloroethene: Dia – 0.0884 cm^2/s; Koc – 39.6 L/kg

The John F. Rowan, Sr. Item IV Trust (Trust) must address these comments to EPD's satisfaction in order to demonstrate compliance with the provisions, purposes, standards and policies of the Act. EPD may, at its sole discretion, review and comment on documents submitted by the Trust. However, failure of EPD to respond to a submittal within any timeframe does not relieve the Trust from complying with the provisions, purposes, standards and policies of the Act.

Please address the above comments in subsequent semi-annual progress reports. EPD anticipates receipt of the next report by June 2, 2012. If you have any questions, please contact Jason Metzger at (404) 463-0530.

Sincerely,

David Brownlee
Acting Program Manager
Response and Remediation Program

c: Leonard Diprima, Jr., P.G., Winter Environmental
✓H.A. Rowan, Southern Automatic Company
✓Marvin Hewatt, Georgia-Alabama Commercial Investments, LLC
✓ASL Limited Partnership

File: HSI 10786
S:\RDRIVE\JMetzger\Fashion Care\FC VRP progress rpt1 letter.doc

Appendix B
Environmental Covenants

- Parcel 18-343-13-002; 2211 Savoy Drive, Chamblee, Georgia; John F. Rowan, Sr. Item IV Trust.
- Parcel 18-343-13-005, 4306 North Peachtree Road, Chamblee, Georgia, Southern Automatic Company

Parcel 18-343-13-005, 4306 North Peachtree Road, Chamblee, Georgia,
Southern Automatic Company

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE Suite
1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor:

Southern Automatic Company
Lenbrook
3747 Peachtree Rd. NE, Apt. 1623
Atlanta, Ga. 30319

Grantee/Holder:

The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
PO Box 197
Carmel Valley, Ca 93924

Grantee/Entity with express power to enforce:

State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1152 East Tower
Atlanta, GA 30334

Parties with interest in the Property:

- None at time of execution

Property:

The property subject to this Environmental Covenant is the Southern Automatic Company N. Peachtree Tract (hereinafter "Property"), located at 4306 N. Peachtree Road, in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on November 25, 1974 from Hoke A. Rowan, Jr. to Southern Automatic Company recorded in Deed Book 3267, Page 130, DeKalb County Records. The area is located in Land Lot 343 of the 18th District of DeKalb County, Georgia. The property consists of approximately 0.51 acres of property developed at the time of this covenant with a single, one-story building that contains a dentist office, a beauty shop, and other retail stores. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-343-13-005 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following documents:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.
- Vapor Intrusion Model - Response to EPD Comments dated February 22, 2012 regarding Voluntary Remediation Program Reports submitted through December 2, 2011: VRP Site, Fashion Care/Executive Care, HSI No. 10786, 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, dated March 29, 2012.

These documents are available at the following locations:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Office of Rowan Randal K DDS
4306 N Peachtree Rd # B
Chamblee, GA 30341

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act and the Georgia VRP.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq.* by Southern Automatic Company, its successors and assigns, The Trust of John F. Rowan, Sr. (herinafter "Trust"), and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the adjacent property; 2211 Savoy Drive, Chamblee Georgia. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene, vinyl chloride and 1,1-dichloroethene have been detected in groundwater beneath the Property. PCE, trichloroethene and cis-1,2-dichloroethene have been detected in soil beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated there under (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The engineering control required for the Property is the maintenance of existing concrete and asphalt covering soil impacted with regulated chemicals in Area A of Figure 1. The

institutional controls consist of no use of groundwater on the Property, and utility and construction worker protection requirements regarding impacted groundwater on the Property in Area D of Figure 2. These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Grantor, Southern Automatic Company (hereinafter "Southern Automatic"), hereby binds Grantor, its successors and assigns to the activity and use restrictions for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the Trust and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated there under. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from exercising any authority under applicable law.

Southern Automatic makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of the Trust, EPD, Southern Automatic and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, the Trust or its successors and assigns, Southern Automatic or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, or to apply for building permit(s). The EPD must be notified within 3 business days following any subsurface site work in the environmentally impacted areas shown on Figures 1 and 2. These notifications shall include a certification that the requirements of this covenant were adhered to.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant. The notice shall explicitly state the requirements of Activities 5-8 to ensure worker protection and proper handling of impacted media.

4. Periodic Reporting. Annually, beginning no later than 12 months following the effective date of this Environmental Covenant, the Owner shall submit to EPD a completed Site Use, Activity and Monitoring Evaluation Form (attached).

5. Activity and Use Limitation(s). The current use of the Property is non-residential as defined according to Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any future development of the property with enclosed structures, whether residential or non-residential as defined above shall require the following:

   - A vapor mitigation system or barrier be installed and maintained with the construction of any enclosed structures within the impacted soil Area A as indicated on attached Figure 1 and impacted groundwater Area D as indicated on Figure 2, until the HSRA regulated substances in soil and groundwater at the Property reach non-residential HSRA RRS; or vapor modeling of groundwater and/or soil contamination in Areas A and D on Figure 1 and 2, respectively, indicate that vapor mitigation is not required for enclosed structures and EPD concurs with the vapor modeling results; and
   - Groundwater use is prohibited (unless EPD concurs that groundwater is remediated to residential RRS).

6. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless HSRA regulated substances are treated to below HSRA residential RRS for groundwater.

   Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

7. Soil Limitation. The concrete and asphalt covering the area designated as Area A in Figure 1 as having regulated substances at concentrations greater than HSRA non-residential RRS, must be maintained and shall only be breached in accordance with the restrictions herein. Should intrusive activities within the area designated in Figure 1 as having regulated substances at concentrations greater than HSRA non-residential RRS be required, the extracted, impacted soil should be managed in accordance with all applicable local, state and federal rules and regulations governing the management of such material. Soil removed from this area should not be placed back into the excavation, but be properly characterized for disposal in accordance with 40 CFR Part 261(specifically 40 CFR Parts 261.20-24, regarding characteristic waste), and transported and disposed of at an appropriate disposal facility. The excavation should be backfilled with clean fill material and recapped with an impervious surface. Recapping of the area of excavation would not be necessary if all the impacted soil in the excavation area is removed to below applicable HSRA residential RRS to the water table for the regulated chemicals of concern noted in the "Description of Contamination and Corrective Action" above.

8. Utility Worker & Construction Worker Protection. Levels of the following HSRA regulated chemicals have been identified in groundwater above calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and/or utility workers as indicated:

HSRA regulated chemical	Construction Worker Threshold Concentration (mg/L)	Utility Worker Threshold Concentration (mg/L)	Comments
PCE	0.12	0.82	
Trichloroethene	0.006	0.041	
Cis-1,2-dichloroethene	2.6	18.0	This chemical was identified above the construction worker threshold only.

The area with chemical concentrations in groundwater above Type 5 RRS levels is identified as Area D on attached Figure 2. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade. Prior to conducting construction or subsurface utility work that may result in exposure to groundwater in the designated area, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted groundwater performed in the execution of work should be done in accordance with Item 6 above.

The exposure duration assumed for a utility worker was 35 days per year, for a period of 25 years. The exposure duration assumed for a construction worker was 250 days a year, for a period of no more than one year. Therefore, utility worker exposure in the areas that meet Type 5 RRS, but exceed Type 1-4 RRS, Area A in Figure 1 and Area C in Figure 2; should not exceed 35 days per year for 25 years, and for construction workers should not to exceed 250 days in a year. If on site works in the areas designated above are to be exceeded, then the procedures outlined above must be followed to eliminate the work exposure pathway.

9. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

10. Right of Access. In addition to any rights already possessed by EPD and/ Trust, the Owner shall allow authorized representatives of EPD and/or the Trust the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

11. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) the Trust, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

12. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq.*

13. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

14. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

RepresentationsandWarranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 11 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

- Georgia Environmental Protection Division, Branch Chief, Land Protection Branch, 2 Martin Luther King Jr. Drive SE Suite 1154 East Tower, Atlanta, GA 30334.

- Southern Automatic Company, Lenbrook, 3747 Peachtree Rd. NE, Apt. 1623, Atlanta, GA 30319.

- The Trust of John F. Rowan, Sr., Attn. Mrs. Catherine Norris, Representative, PO Box 197, Carmel Valley, Ca 93924

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF Georgia
COUNTY OF FULTON

On this 24th day of July, 2012, I certify that Hoke Rowan personally appeared before me, and acknowledged that he/she is the individual described herein and who executed the within and foregoing instrument and signed the same at his/her free and voluntary act and deed for the uses and purposes therein mentioned.

REBECCA JARRELL
MY COMMISSION EXPIRES
NOTARY PUBLIC
JULY 14, 2014
FULTON COUNTY, GEORGIA

Rebecca Jarrell
Notary Public in and for the State of Georgia, residing at 5385 Peachtree Dunwoody Rd
My appointment expires 7-14-2014

[CORPORATE ACKNOWLEDGMENT]

STATE OF Georgia
COUNTY OF FULTON

On this 24th day of July, 2012, I certify that Hoke Rowan personally appeared before me, acknowledged that he/she is the President of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that he/she was authorized to execute said instrument for said corporation.

REBECCA JARRELL
MY COMMISSION EXPIRES
NOTARY PUBLIC
JULY 14, 2014
FULTON COUNTY, GEORGIA

Rebecca Jarrell
Notary Public in and for the State of Georgia, residing at 5385 Peachtree Dunwoody Rd
My appointment expires 7-14-2014

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF Calif.
COUNTY OF Monterey

On this 1ST day of August, 2012, I certify that Catherine Norris personally appeared before me, acknowledged that he/she signed this instrument, on oath stated that he/she was authorized to execute this instrument, and acknowledged it as the Representative [type of authority] of The Trust of John E. Rowan Sr. [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

SUE PECCIANTI
Commission # 1865060
Notary Public - California
Monterey County
My Comm. Expires Oct 14, 2013

Sue Peccianti
Notary Public in and for the State of California ~~Georgia~~, residing at Carmel, Calif.
My appointment expires 10/14/13

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the 24 day of July, 2012

Southern Automatic Company

Hoke A Rowan Jr

PRESIDENT

[Name of Signatory]
[Title]

Dated: 24-7-12

The Trust of John F. Rowan, Sr.

[Name of Person Acknowledging Receipt]
[Title]

Dated: 8/1/12

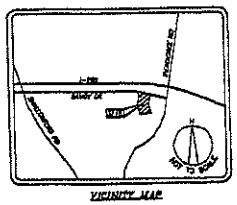
STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

Exhibit A Legal
Description

Beginning at an iron pin on the south line of Land Lot 343, said point being south 89 degrees 53 minutes west 213.00 feet from the westerly right of way of North Peachtree Road, (70' R/W), thence south 89 degrees 53 minutes west 225.00 feet along the south line of Land Lot 343 to an iron pin, thence north 0 degrees 7 minutes west 316.8 feet to an iron pin on the southerly right of way of I-285, thence south 74 degrees 49 minutes east along the southerly right of way of I-285, 203.9 feet to an iron pin, thence south 15 degrees 11 minutes west 120.0 feet to a masonry nail, thence south 22 degrees 15 minutes east to the south line of Land Lot 343 and the point of beginning.



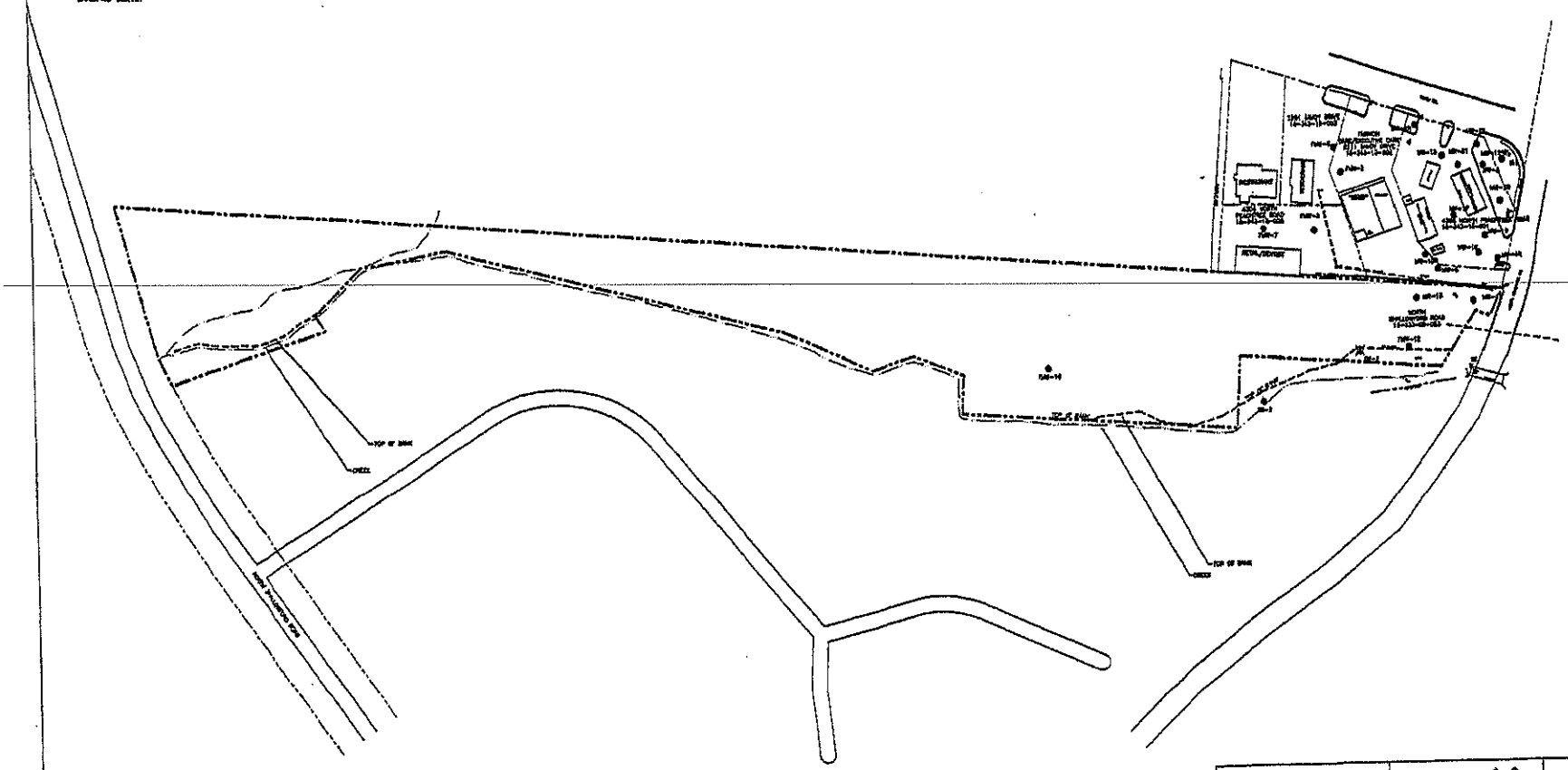
VICINITY MAP

LEGEND

APPROXIMATE PROPERTY LINE

ASI LIMITED PARTNERSHIP PROPERTY

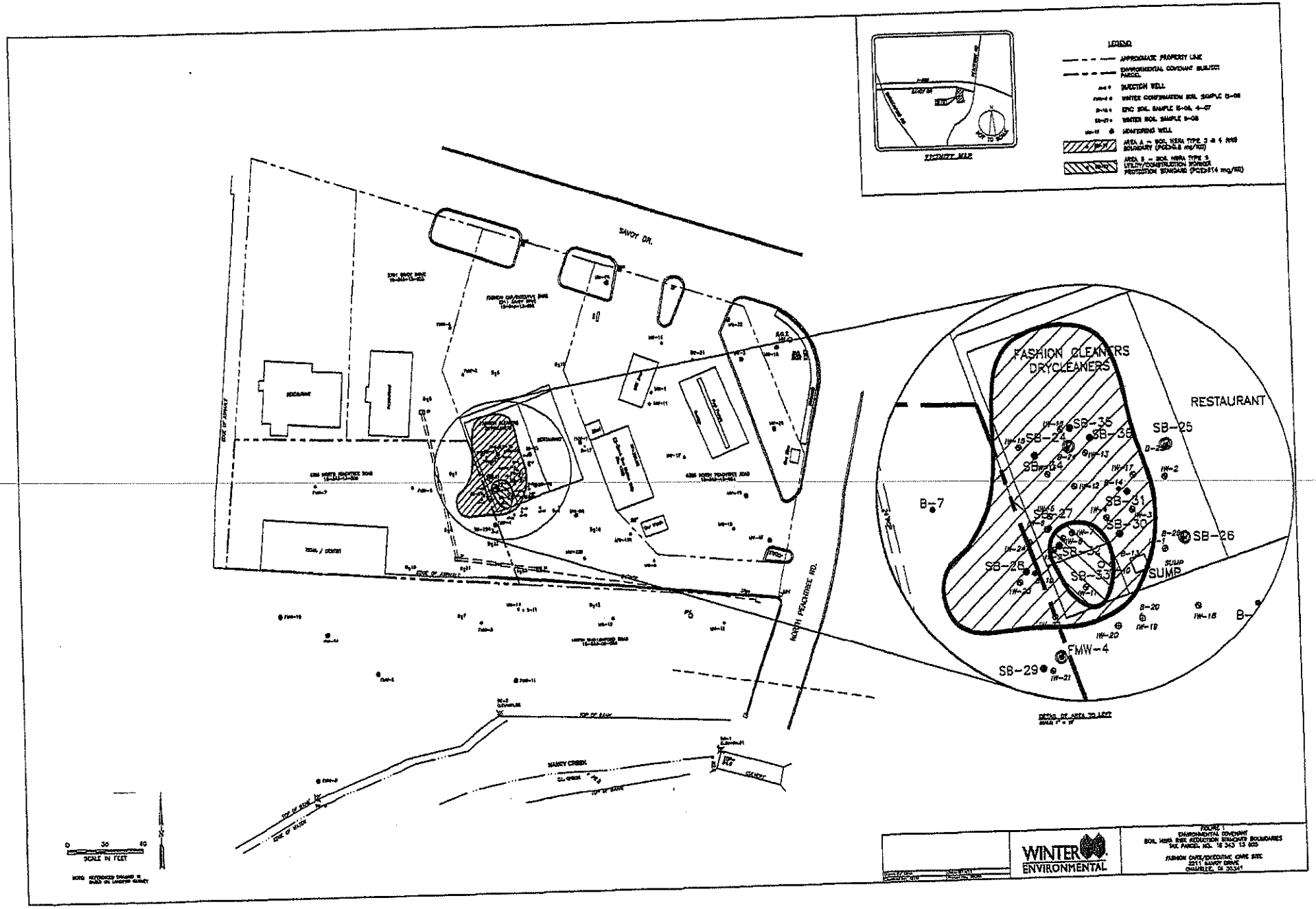
NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

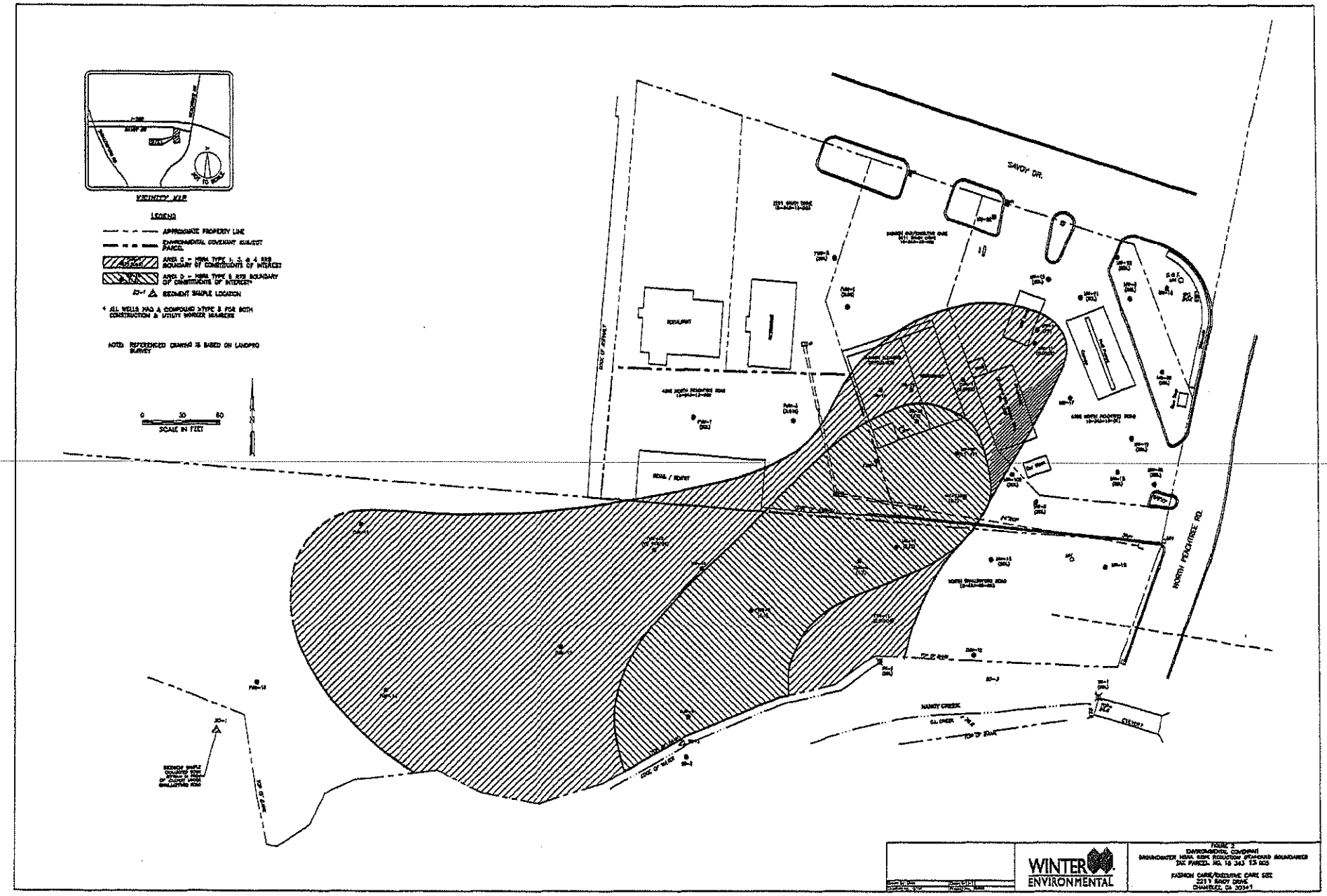


WINTER ENVIRONMENTAL

EXHIBIT B
AREA MAP

FASHION CARE/EXECUTIVE CARE SITE
2711 SHADY DRIVE
CHAMBLEE, GA 30341


LEGEND
APPROXIMATE PROPERTY LINE
ENVIRONMENTAL COVENANT SUBJECT PARCEL
INJECTION WELL
WINTER CONFIRMATION SOIL SAMPLE
EPIC SOIL SAMPLE
WINTER SOIL SAMPLE
MONITORING WELL
AREA A – SOIL HSRA TYPE 3 & 4 RRS BOUNDARY
AREA B – SOIL HSRA TYPE 5 UTILITY/CONSTRUCTION WORKER PROTECTION STANDARD
FACILITY MAP
SAVOY DR.
NORTH PEACHTREE RD.
FASHION CLEANERS
DRYCLEANERS
RESTAURANT
SB-24
SB-25
SB-26
SB-27
SB-28
SB-29
SB-30
SB-31
SB-32
SB-33
SB-34
SB-35
SB-36
B-7
FMW-4
SUMP
DETAIL OF AREA TO LEFT
SCALE IN FEET
WINTER ENVIRONMENTAL
FIGURE 1
ENVIRONMENTAL COVENANT
SOIL HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 343 13 005
FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHARLOTTE, NC 28341


VICINITY MAP
LEGEND
APPROXIMATE PROPERTY LINE
ENVIRONMENTAL COVENANT SUBJECT PARCEL
AREA C - HSRA TYPE 1, 3, & 4 RRS BOUNDARY OF CONSTITUENTS OF INTEREST
AREA D - HSRA TYPE 5 RRS BOUNDARY OF CONSTITUENTS OF INTEREST*
SD-1 RECEIVING SAMPLE LOCATION
* ALL WELLS HAD A COMPOUND >TYPE B FOR BOTH CONSTRUCTION & UTILITY WORKER NUMBERS
NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY
0 30 60
SCALE IN FEET
N
SAVOY DR.
NORTH PEACHTREE RD.
RESTAURANT
RETAIL / RENTAL
NANCY CREEK
WINTER ENVIRONMENTAL
FIGURE 2
ENVIRONMENTAL COVENANT
GROUNDWATER HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 343 13 005
FASHION CARE/EXECUTIVE CARE SITE
2217 SAVOY DRIVE
CHAMBLEE, GA 30341

SITE USE, ACTIVITY, AND MONITORING EVALUATION FORM

Fashion Care/Executive Care Site, Parcel No. 18-343-13-005,
4306 N. Peachtree Road, Chamblee, DeKalb County, Georgia

TYPE	No.	CRITERIA RESPONSE	YES	NO
Property Use	1	Has the property use changed, has construction work been implemented on the property, or have building permits been applied for?		X
	1a	If yes to 1, was EPD notified at least 30 days in advance?		
	1b	If no to 1a, attach a written explanation.		
Exposure	2	Has subsurface site work been conducted in the areas of the property where soil and/or groundwater concentrations exceed residential cleanup standards (UEC - Figure 1 - Area A and Figure 2 - Areas C and D)?		X
	2a	If yes to 2, was EPD notified within 3 business days following the site work?		
	2b	Has groundwater extraction or use for non-remedial purposes occurred?		X
	2c	If no to 2a or yes to 2b, attach a written explanation, including a description regarding whether the requirements of the uniform environmental covenant (UEC) were adhered to.		
Engineering Controls	3	Is the concrete/asphalt cover intact and of sufficient quality to prevent exposure to soil in the area of the property where soil concentrations exceed residential cleanup standards (UEC – Figure 1 - Area A)?	X	
	3a	If no to 3, are corrective measures being taken? Please attach a written explanation.	X	
	3b	Have enclosed structures been installed on the property or existing structures modified in such a way as to change potential vapor intrusion assumptions?	X	
	3c	If yes to 3b, have vapor intrusion mitigation measures been implemented? Please attach a written explanation.		X
Permanent Markers	4	Are the permanent markers that delineate the restricted areas in place and legible?		X
	4a	If no to 4, attach a written explanation. WINTERS CONSTRUCTION		
Property Instruments	5	Do all leases or other property instruments for the site have the applicable UEC and deed notice language inserted into them.		X
	5a	If no to 5, attach a written explanation. LEASES ARE 10 YEARS OLD		
Inspection	6	Date of inspection:		
	6a	Name of inspector:		
	6b	Photographs showing current land use, engineering controls, and permanent markers (attached)	X	

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SOUTHERN AUTOMATIC CO
HOKE A ROWAN JR
NAME (Please type or print)

PRESIDENT
TITLE

Hoke A Rowan Jr
SIGNATURE

JULY 23, 2012
DATE

Parcel 18-343-13-002; 2211 Savoy Drive, Chamblee, Georgia; John F. Rowan, Sr. Item IV Trust

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE
Suite 1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor:

The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
PO Box 197
Carmel Valley, CA 93924

Grantee/Holder:

The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
PO Box 197
Carmel Valley, CA 93924

Grantee/Entity with express power to enforce:

State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1152 East Tower
Atlanta, GA 30334

Parties with interest in the Property:

- None at time of execution

Property:

The property subject to this Environmental Covenant is the Fashion Care/Executive Care Tract (hereinafter "Property"), located at 2211 Savoy Drive in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on November 7, 2003 from Business Associates, Inc., a Georgia Corporation to John F. Rowan recorded in Deed Book 15562, Page 660, DeKalb County Records. The area is located in Land Lot 343 of the 18th District of DeKalb County, Georgia. The property consists of approximately 0.61 acres of property developed with a single, one-story building that contains a drycleaner on the west side and a restaurant on the east side. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-343-13-002 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document[s]:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.
- Point of Compliance Monitoring Plan (as referenced in Activity 4)

These documents are available at the following locations:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Fashion Care Cleaners
2211 Savoy Drive
Chamblee, GA 30341

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act and the Georgia VRP.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by the Trust of John F. Rowan, Sr. (hereinafter "Trust"), its successors and assigns, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the Property. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene, vinyl chloride and 1,1-dichloroethene have been detected in groundwater beneath the Property. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene and vinyl chloride have been detected in soil beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The institutional controls consist of: 1) no use of groundwater on the Property, and 2) utility and construction worker protection requirements regarding impacted soil in Area B on Figure 1, and groundwater in Area D in Figure 2 of the Property. Engineering controls required for the Property are: 1) the maintenance of existing concrete and asphalt covering soil impacted with regulated chemicals in Areas A and B on Figure 1, and 2) the implementation and maintenance of vapor mitigation measures beneath any existing enclosed structures on the Property and any enclosed structures constructed on the Property within Area A on Figure 1 and Areas C and D on Figure 2. These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Grantor, the Trust, hereby binds Grantor, its successors and assigns to the activity and use restriction(s) for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the <name of Holder> and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from exercising any authority under applicable law.

The Trust makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of the EPD, the Trust and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, the Trust or its successors and assigns, the Trust or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, or to apply for building permit(s). The EPD must be notified within 3 business days following any subsurface site work in the environmentally impacted areas shown on Figures 1 and 2. These notifications shall include a certification that the requirements of this covenant were adhered to.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant. The notice shall explicitly state the requirements of Activities 5-8 to ensure worker protection and proper handling of impacted media.

4. Periodic Reporting. Annually, beginning no later than 12 months following the effective date of this Environmental Covenant, the Owner shall submit to EPD a completed Site Use, Activity and Monitoring Evaluation Form (attached). In addition, an Annual Point of Compliance Monitoring Report. as specified in the EPD approved Point of Compliance Monitoring Plan, must be submitted to the EPD until point of compliance monitoring is deemed unnecessary by the EPD in accordance with the specifications set forth in the Point of Compliance Monitoring Plan.

5. Activity and Use Limitation(s). The Property shall be used only for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any residential use of the Property shall be prohibited unless EPD concurs that soil and groundwater are remediated to residential RRS. A vapor mitigation system or barrier shall be installed and maintained on existing structures and on any additional enclosed structures

constructed until the HSRA regulated substances in soil and groundwater at the Property reach HSRA RRS, or vapor modeling of groundwater and soil contamination in the respective areas defined on Figure 1 and 2 indicate that vapor mitigation is not required for enclosed structures, and EPD concurs with the vapor modeling results.

6. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless HSRA regulated substances are treated to below HSRA residential RRS for groundwater.

   Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

7. Soil Limitation. The concrete and asphalt covering Areas A and B in Figure 1, having regulated substances in soil at concentrations greater than HSRA non-residential RRS, must be maintained and shall only be breached in accordance with the restrictions herein. Should intrusive activities within this area be required, the extracted, impacted soil should be managed in accordance with all applicable local, state and federal rules and regulations governing the management of such material. Removed soil in this area should not be placed back into the excavation, but be properly characterized for disposal in accordance with 40 CFR Part 261(specifically 40 CFR Parts 261.20-24, regarding characteristic waste) and transported and disposed of at an appropriate disposal facility. The excavation should be backfilled with clean fill material and recapped with an impervious surface. Recapping of the area of excavation would not be necessary if all the impacted soil in the excavation area is removed to below applicable HSRA residential RRS to the water table for the regulated chemicals of concern noted in the "Description of Contamination and Corrective Action" above.

8. Utility Worker & Construction Worker Protection. HSRA regulated chemicals have been identified in soil and groundwater above calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and/or utility workers. The following regulated chemicals have been identified in soil above calculated risk-based threshold levels for the protection of construction workers and/or utility workers as indicated. The area with soil concentrations above these levels is identified as Area B on Figure 1, attached.

Soil - HSRA Type 5 RRS for the Protection of Construction Workers and/or Utility Workers			
HSRA regulated chemical	Construction Worker Threshold Concentration (mg/kg)	Utility Worker Threshold Concentration (mg/kg)	Comments
PCE	142	1015	

   The following regulated chemicals have been identified in groundwater above calculated risk-based threshold levels for the protection of construction workers and/or utility workers as indicated. The area with groundwater concentrations above Type 5 RRS is identified as Area D on attached Figure 2. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade.

Groundwater - HSRA Type 5 RRS for the Protection of Construction Workers and/or Utility Workers			
HSRA regulated chemical	Construction Worker Threshold Concentration (mg/L)	Utility Worker Threshold Concentration (mg/L)	Comments
PCE	0.12	0.82	
Trichloroethene	0.006	0.041	
Cis-1,2-dichloroethene	2.6	18.0	This chemical was identified above the construction worker threshold only.
Trans-1,1-dichloroethene	0.174	1.24	
Vinyl chloride	0.27	0.097	

Prior to conducting construction or subsurface utility work that may result in exposure to soil or groundwater in the designated Type 5 areas, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted soil or groundwater performed in the execution of work should be done in accordance with Items 7 and 6 above, respectively.

The exposure duration assumed for a utility worker was 35 days per year, for a period of 25 years. The exposure duration assumed for a construction worker was 250 days a year, for a period of no more than one year. Therefore, utility worker exposure in the areas that meet Type 5 RRS, but exceed Type 1-4 RRS, Area A in Figure 1 and Area C in Figure 2; should not exceed 35 days per year for 25 years, and for construction workers should not to exceed 250 days in a year. If on site works in the areas designated above are to be exceeded, then the procedures outlined above must be followed to eliminate the work exposure pathway.

9. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

10. Right of Access. In addition to any rights already possessed by EPD and/or the Trust, the Owner shall allow authorized representatives of EPD and/or the Trust the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

11. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) the Trust, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

12. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

13. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

14. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 11 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

- Georgia Environmental Protection Division, Branch Chief, Land Protection Branch, 2 Martin Luther King Jr. Drive SE, Suite 1154 East Tower, Atlanta, GA 30334.

- The Trust of John F. Rowan, Sr., Mrs. Catherine Norris, Representative, P.O. Box 197, Carmel, CA 93924

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

The Trust of John F. Rowan, Sr.

_____
[Name of Signatory]
[Title]

Dated: _____

<NAME OF HOLDER>

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF California
COUNTY OF Monterey

On this _ day of AUG. 1, 2012, I certify that Catherine Norris personally appeared before me, and acknowledged that he/(she) is the individual described herein and who executed the within and foregoing instrument and signed the same at his/(her) free and voluntary act and deed for the uses and purposes therein mentioned.

SUE PECCIANTI
Commission # 1865060
Notary Public - California
Monterey County
My Comm. Expires Oct 14, 2013

Sue Peccianti
Notary Public in and for the State of CALIF.
~~Georgia~~, residing at CARMEL, CA.
My appointment expires 10-14-13.

[CORPORATE ACKNOWLEDGMENT]

STATE OF California
COUNTY OF Monterey

On this _ day of AUG. 1, 2012, I certify that Catherine Norris personally appeared before me, acknowledged that he/(she) is the Representative of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that he/(she) was authorized to execute said instrument for said corporation.

SUE PECCIANTI
Commission # 1865060
Notary Public - California
Monterey County
My Comm. Expires Oct 14, 2013

Sue Peccianti
Notary Public in and for the State of California
~~Georgia~~, residing at Carmel, CALIF.
My appointment expires 10-14-13.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF California
COUNTY OF Monterey

On this _ day of Aug. 1, 2012, I certify that Catherine Norris personally appeared before me, acknowledged that he/(she) signed this instrument, on oath stated that he/(she) was authorized to execute this instrument, and acknowledged it as the Representative [type of authority] of The Trust of John F Rowan, Sr. [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

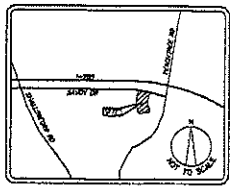
SUE PECCIANTI
Commission # 1865060
Notary Public - California
Monterey County
My Comm. Expires Oct 14, 2013

Sue Peccianti
Notary Public in and for the State of CALIFORNIA
~~Georgia~~, residing at CARMEL, CALIF.
My appointment expires 10-14-13

Exhibit A
Legal Description

All that tract or parcel of land lying and being in Land Lot 343 of the 18th District of DeKalb County, Georgia and being more particularly described as follows: Beginning at an iron pin on the westerly line of the right of way of North Peachtree Road (which line is 35 feet westerly from the center line of said road) and on the line dividing Land Lots 343 and 334; and running thence along said Land Lot line South, 89 degrees 53 minutes West, 213 feet to an iron pin; thence North 22 degrees 15 minutes West, 158.85 feet to an iron pin; thence North 15 degrees 11 minutes East, 120 feet to an iron pin on the southerly line of the right of way of I-285; thence South 74 degrees 49 minutes East along the southerly right of way of I-285, 100 feet to an iron pin; thence South 15 degrees 11 minutes West, 990 feet to an iron pin; thence South 23 degrees 25 minutes 30 seconds East, 111.6 feet to an iron pin; thence South 60 degrees 44 minutes East, 60 feet to an iron pin; thence North 89 degrees 53 minutes East, 75 feet to an iron pin on the westerly right of way of North Peachtree Road; thence along said right of way South 9 degrees 17 minutes 30 seconds West, 18 feet to the POINT OF BEGINNING. According to a Plat by Earnest L. Boggus dated June 14, 1968, revised April 10, 1969, revised May 8, 1970. Subject to covenants, easements and restrictions of record and to utility easements.

This is the same property conveyed by Business Associates, Inc. to CJH Capital Corporation by Warranty Deed dated September 21, 1987, recorded in Deed Book 5954, page 189, Clerk's Office, DeKalb County Superior Court.



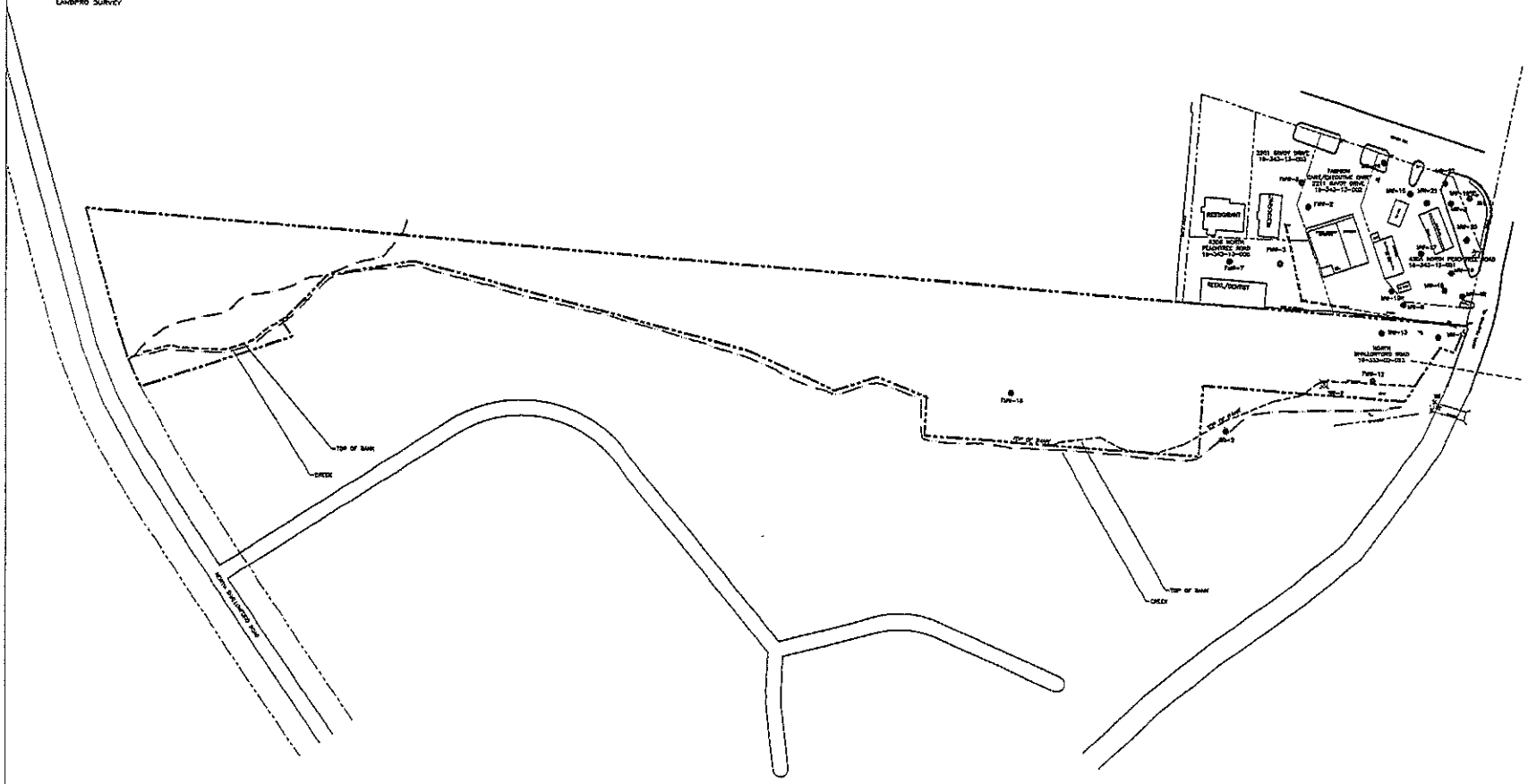
VICINITY MAP

LEGEND

APPROXIMATE PROPERTY LINE

ASL LIMITED PARTNERSHIP PROPERTY

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY



WINTER ENVIRONMENTAL

EXHIBIT B
AREA MAP

FASHION GARE/EXECUTIVE GARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

FIGURE 2
ENVIRONMENTAL COVENANT
GROUNDWATER HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 343 13 002

FASHION CARE/EXECUTIVE CARE SITE
2311 SAVOY DRIVE
CHAMBLEE, GA 30341

SITE USE, ACTIVITY, AND MONITORING EVALUATION FORM

Fashion Care/Executive Care Site, Parcel No. 18-343-13-002,
2211 Savoy Drive, Chamblee, DeKalb County, Georgia

TYPE	No.	CRITERIA RESPONSE	YES	NO
Property Use	1	Has the property use changed, has construction work been implemented on the property, or have building permits been applied for?		
	1a	If yes to 1, was EPD notified at least 30 days in advance?		
	1b	If no to 1a, attach a written explanation.		
Exposure	2	Has subsurface site work been conducted in the areas of the property where soil and/or groundwater concentrations exceed residential cleanup standards (UEC - Figure 1 - Areas A and B and Figure 2 - Areas C and D)?		
	2a	If yes to 2, was EPD notified within 3 business days following the site work?		
	2b	Has groundwater extraction or use for non-remedial purposes occurred?		
	2c	If no to 2a or yes to 2b, attach a written explanation, including a description regarding whether the requirements of the uniform environmental covenant (UEC) were adhered to.		
Engineering Controls	3	Is the concrete/asphalt cover intact and of sufficient quality to prevent exposure to soil in the area of the property where soil concentrations exceed residential cleanup standards (UEC – Figure 1 - Areas A and B)?		
	3a	If no to 3, are corrective measures being taken? Please attach a written explanation.		
	3b	Have enclosed structures been installed on the property or existing structures modified in such a way as to change potential vapor intrusion assumptions?		
	3c	Is the vapor mitigation system on the existing structure operating consistently and being maintained?		
	3d	• If yes to 3b, have vapor intrusion mitigation measures been implemented? Please attach a written explanation. • If no to 3c, please attach a written explanation.		
Permanent Markers	4	Are the permanent markers that delineate the restricted areas in place and legible?		
	4a	If no to 4, attach a written explanation.		
Property Instruments	5	Do all leases or other property instruments for the site have the applicable UEC and deed notice language inserted into them.		
	5a	If no to 5, attach a written explanation.		
Inspection	6	Date of inspection:		
	6a	Name of inspector:		
	6b	Photographs showing current land use, engineering controls, and permanent markers (attached)		

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Catherine Norris
NAME (Please type or print)

Representative The Trust of John F. Rowan Sr.
TITLE

SIGNATURE

8/1/12
DATE

Appendix C
July 2012 Monitoring Well Sampling Forms

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-16	Job Number	8096
Client	Rowan	Date	7/10/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear/Hot	Time In/Out	1055/1230

WELL DATA

Well Depth	15.65	Well Diameter	2"	Water Height	4.90
Depth to Water	10.75	Screened Interval		x Multiplier	0.162
Water Column Length	4.90	Depth to Free Product	N/A	x Casing Volumes	0.79
Total Liters Purge	9 Lt.	Free Product Thickness	N/A	=Purge Volume	2.37
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	13.5	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1130	0.90		10.83	200 mL	4.30	17.82	0.151	10.50	20.50		C
1135	0.90	1.80	10.84	200 mL	4.28	17.61	0.102	13.20	21.30		C
1140	0.90	2.70	10.85	200 mL	4.34	17.53	0.088	13.50	34.70		C
1145	0.90	3.60	10.85	200 mL	4.49	17.37	0.086	12.30	38.70		C
1150	0.90	4.50	10.85	200 mL	4.68	17.35	0.085	11.80	37.10		C
1155	0.90	5.40	10.85	200 mL	4.79	17.31	0.085	11.00	36.00		C
1200	0.90	6.30	10.85	200 mL	4.99	17.44	0.085	10.90	31.10		C
1205	0.90	7.20	10.85	200 mL	5.04	17.36	0.085	10.00	30.50		C
1210	0.90	8.10	10.85	200 mL	5.12	17.41	0.085	9.80	28.60		C
1215	0.90	9.00	10.86	200 mL	5.13	17.36	0.085	9.60	30.20		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-16	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1218	Final Depth to Water	10.80	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-15	Job Number	8096
Client	Rowan	Date	7/10/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear/Hot	Time In/Out	1250/1358

WELL DATA

Well Depth	14.40	Well Diameter	2"	Water Height	3.25
Depth to Water	11.15	Screened Interval		x Multiplier	0.162
Water Column Length	3.25	Depth to Free Product	N/A	x Casing Volumes	0.53
Total Liters Purge	9 Lt.	Free Product Thickness	N/A	=Purge Volume	1.59
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	13	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1300	0.90		11.80	200 mL	5.98	20.97	0.673	20.00	-41.90		CL
1305	0.90	1.80	12.10	200 mL	5.94	20.5	0.656	25.90	-44.10		CL
1310	0.90	2.70	12.56	200 mL	6.01	20.55	0.617	25.00	-40.00		CL
1315	0.90	3.60	12.86	200 mL	6.00	20.29	0.566	26.80	-33.40		CL
1320	0.90	4.50	13.07	200 mL	6.03	20.34	0.52	26.70	-29.10		CL
1325	0.90	5.40	13.20	200 mL	6.01	20.33	0.495	28.20	-22.90		SC
1330	0.90	6.30	13.32	200 mL	6.00	20.24	0.486	27.80	-20.10		SC
1335	0.90	7.20	13.41	200 mL	5.99	20.25	0.48	26.90	-16.60		AC
1340	0.90	8.10	13.32	200 mL	5.99	20.28	0.483	27.80	-13.60		AC
1345	0.90	9.00	13.31	200 mL	5.96	20.21	0.482	28.10	-10.60		AC

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-15	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1348	Final Depth to Water	13.30	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Pump pulling well down faster than the well is recharging

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-13	Job Number	8096
Client	Rowan	Date	7/10/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear/Hot	Time In/Out	1400/1510

WELL DATA

Well Depth	19.50	Well Diameter	2"	Water Height	9.58
Depth to Water	9.92	Screened Interval		x Multiplier	0.162
Water Column Length	9.58	Depth to Free Product	N/A	x Casing Volumes	1.55
Total Liters Purge	7 Lt.	Free Product Thickness	N/A	=Purge Volume	4.65
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	17'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1417	0.87		10.75	200 mL	5.85	18.15	0.103	11.50	125.60		AC
1422	0.88	1.75	11.18	200 mL	4.68	17.68	0.078	7.50	161.50		C
1427	0.87	2.62	11.19	200 mL	4.93	17.55	0.08	7.10	149.10		C
1432	0.88	3.50	11.20	200 mL	5.13	17.56	0.082	8.60	137.10		C
1437	0.87	4.37	11.31	200 mL	5.11	17.3	0.082	10.80	137.10		C
1442	0.88	5.25	11.32	200 mL	5.11	17.39	0.083	12.50	138.10		C
1447	0.87	6.12	11.31	200 mL	5.12	17.28	0.082	12.40	139.10		C
1452	0.88	7.00	11.32	200 mL	5.06	17.19	0.082	12.10	140.10		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-13	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1455	Final Depth to Water	11.25	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-9	Job Number	8096
Client	Rowan	Date	7/10/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear/Hot	Time In/Out	1502/1600

WELL DATA

Well Depth	19.35	Well Diameter	2"	Water Height	7.65
Depth to Water	11.70	Screened Interval		x Multiplier	0.162
Water Column Length	7.65	Depth to Free Product	N/A	x Casing Volumes	1.24
Total Liters Purge	5 Lt.	Free Product Thickness	N/A	=Purge Volume	3.72
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	16'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1517	0.83		12.38	200 mL	5.82	19.18	0.134	10.60	313.10		CL
1522	0.83	1.66	12.39	200 mL	5.37	18.81	0.134	7.20	166.00		CL
1527	0.84	2.50	12.38	200 mL	5.58	18.66	0.134	6.30	137.00		CL
1532	0.83	3.33	12.39	200 mL	5.68	18.71	0.135	6.40	128.00		CL
1537	0.83	4.16	12.38	200 mL	5.66	18.72	0.135	7.00	128.00		CL
1542	0.84	5.00	12.38	200 mL	5.66	18.61	0.134	6.90	128.00		CL

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-9	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1545	Final Depth to Water	12.30	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-1	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Cloudy / Warm	Time In/Out	0720/0808

WELL DATA

Well Depth	25.00	Well Diameter	2"	Water Height	9.70
Depth to Water	15.30	Screened Interval		x Multiplier	0.162
Water Column Length	9.70	Depth to Free Product	N/A	x Casing Volumes	1.57
Total Liters Purge	7 Lt.	Free Product Thickness	N/A	=Purge Volume	4.71
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	22'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
720	0.87		15.55	200 mL	6.17	21.14	0.721	28.40	-14.70		C
725	0.88	1.75	15.56	200 mL	5.89	21	0.421	27.90	-23.10		C
730	0.87	2.62	15.55	200 mL	6.07	20.89	0.404	20.10	-36.20		C
735	0.88	3.50	15.56	200 mL	5.98	20.9	0.302	15.20	-20.10		C
740	0.87	4.37	15.58	200 mL	5.89	20.89	0.274	12.10	-5.10		C
745	0.88	5.25	15.59	200 mL	5.89	20.88	0.276	10.10	-2.30		C
750	0.87	6.12	15.60	200 mL	5.92	20.89	0.285	10.00	-3.70		C
755	0.88	7.00	15.61	200 mL	5.93	20.87	0.286	9.90	-3.90		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-1	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	758	Final Depth to Water	15.50	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-8	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Cloudy / Hot	Time In/Out	0814/0905

WELL DATA

Well Depth	20.30	Well Diameter	2"	Water Height	6.40
Depth to Water	13.90	Screened Interval		x Multiplier	0.162
Water Column Length	6.40	Depth to Free Product	N/A	x Casing Volumes	1.04
Total Liters Purge	7 Lt.	Free Product Thickness	N/A	=Purge Volume	3.12
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	18'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
819	0.87		14.03	200 mL	5.75	22.71	0.138	12.20	102.10		C
824	0.88	1.75	14.05	200 mL	5.39	22.71	0.103	10.30	110.20		C
829	0.87	2.62	14.05	200 mL	5.14	22.85	0.085	8.10	133.20		C
834	0.88	3.50	14.06	200 mL	5.17	22.93	0.09	6.90	132.10		C
839	0.87	4.37	14.08	200 mL	5.16	22.92	0.094	5.90	126.10		C
844	0.88	5.25	14.08	200 mL	5.23	22.87	0.1	5.50	116.10		C
849	0.87	6.12	14.09	200 mL	5.23	22.86	0.104	5.40	111.40		C
854	0.88	7.00	14.08	200 mL	5.25	22.87	0.106	5.20	102.40		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-8	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	857	Final Depth to Water	14.00	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-2	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Cloudy / Warm	Time In/Out	913/1008

WELL DATA

Well Depth	21.30	Well Diameter	2"	Water Height	6.85
Depth to Water	14.45	Screened Interval		x Multiplier	0.162
Water Column Length	6.85	Depth to Free Product	N/A	x Casing Volumes	1.11
Total Liters Purge	8 Lt.	Free Product Thickness	N/A	=Purge Volume	3.33
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	18'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
915			13.50	200 mL	5.51	22.64	0.166	13.40	255.10		C
920			13.51	200 mL	5.08	22.74	0.16	8.40	140.10		C
925			13.52	200 mL	5.23	22.9	0.154	6.70	121.10		C
930			13.51	200 mL	5.35	23.01	0.174	6.30	106.10		C
935			13.52	200 mL	5.30	23.04	0.158	5.60	100.10		C
940			13.51	200 mL	5.19	22.94	0.126	5.00	103.10		C
945			13.52	200 mL	5.13	22.97	0.112	4.60	103.00		C
950			13.51	200 mL	5.11	22.95	0.109	4.40	102.00		C
955			13.52	200 mL	5.12	22.93	0.109	4.30	0.97		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-2	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	958	Final Depth to Water	14.00	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-14	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Cloudy / Hot	Time In/Out	1020/1120

WELL DATA

Well Depth	18.85	Well Diameter	2"	Water Height	7.97
Depth to Water	10.88	Screened Interval		x Multiplier	0.162
Water Column Length	7.97	Depth to Free Product	N/A	x Casing Volumes	1.29
Total Liters Purge	5 Lt.	Free Product Thickness	N/A	=Purge Volume	3.87
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	16'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1042	0.83		10.98	200 mL	5.80	17.03	0.105	18.90	203.10		CL
1047	0.83	1.66	10.98	200 mL	4.81	17.13	0.103	7.40	130.60		CL
1052	0.84	2.50	10.98	200 mL	5.04	17.14	0.101	6.30	11.60		SC
1057	0.83	3.33	10.98	200 mL	5.26	17.08	0.102	5.70	98.70		SC
1102	0.83	4.16	10.99	200 mL	5.36	17.28	0.100	5.50	91.70		AC
1107	0.84	5.00	10.99	200 mL	5.41	17.38	0.099	6.00	92.30		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-14	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1110	Final Depth to Water	10.85	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-10	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Cloudy / Hot	Time In/Out	1122/1211

WELL DATA

Well Depth	19.30	Well Diameter	2"	Water Height	8.60
Depth to Water	10.70	Screened Interval		x Multiplier	0.162
Water Column Length	8.60	Depth to Free Product	N/A	x Casing Volumes	1.39
Total Liters Purge	5 Lt.	Free Product Thickness	N/A	=Purge Volume	4.17
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	17'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1134	0.83		10.60	200 mL	6.13	18.82	0.21	17.30	308.00		AC
1139	0.83	1.66	10.61	200 mL	5.71	19.3	0.2	5.40	33.40		C
1144	0.84	2.50	10.62	200 mL	6.05	19.22	0.235	4.70	-6.40		C
1149	0.83	3.33	10.61	200 mL	6.15	19.05	0.253	4.10	-27.40		C
1154	0.83	4.16	10.62	200 mL	6.20	18.88	0.254	3.80	-37.10		C
1159	0.84	5.00	10.62	200 mL	6.22	18.91	0.254	3.70	-39.10		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-10	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1203	Final Depth to Water	10.50	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-6	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear/Hot	Time In/Out	1215/1255

WELL DATA

Well Depth	18.75	Well Diameter	2"	Water Height	7.87
Depth to Water	10.88	Screened Interval		x Multiplier	0.162
Water Column Length	7.87	Depth to Free Product	N/A	x Casing Volumes	1.27
Total Liters Purge	4Lt.	Free Product Thickness	N/A	=Purge Volume	3.81
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	17'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1222	0.80		10.65	200 mL	5.32	18.59	0.116	9.20	135.00		C
1227	0.80	1.60	10.68	200 mL	5.07	17.60	0.115	4.70	138.40		C
1232	0.80	2.40	10.69	200 mL	5.39	17.65	0.115	6.80	122.10		C
1237	0.80	3.20	10.69	200 mL	5.42	17.66	0.115	6.80	116.10		C
1242	0.80	4.00	10.69	200 mL	5.49	17.60	0.116	6.40	119.10		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-6	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1245	Final Depth to Water	10.50	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-5	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	1300/1420

WELL DATA

Well Depth	18.80	Well Diameter	2"	Water Height	7.19
Depth to Water	13.00	Screened Interval		x Multiplier	0.162
Water Column Length	5.80	Depth to Free Product	N/A	x Casing Volumes	0.94
Total Liters Purge	5 Lt.	Free Product Thickness	N/A	=Purge Volume	2.82
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	17'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1343	0.83		12.98	200 mL	6.08	19.49	0.239	12.80	100.10		C
1348	0.83	1.66	12.99	200 mL	5.87	19.52	0.237	6.30	4.60		C
1353	0.84	2.50	12.98	200 mL	5.86	19.24	0.227	5.40	-1.70		C
1358	0.83	3.33	12.98	200 mL	5.91	19.30	0.22	5.50	-5.70		C
1403	0.83	4.16	12.99	200 mL	5.98	19.28	0.228	5.10	-15.90		C
1408	0.84	5.00	12.98	200 mL	6.00	19.14	0.227	5.20	-21.90		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-5	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1415	Final Depth to Water	13.00	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-11	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	1420/1510

WELL DATA

Well Depth	19.20	Well Diameter	2"	Water Height	7.19
Depth to Water	12.01	Screened Interval		x Multiplier	0.162
Water Column Length	7.19	Depth to Free Product	N/A	x Casing Volumes	1.16
Total Liters Purge	4 Lt.	Free Product Thickness	N/A	=Purge Volume	3.48
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	17'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1445	0.80		12.00	200 mL	5.22	20.79	0.077	12.01	122.10		C
1450	0.80	1.60	12.00	200 mL	4.67	17.69	0.074	6.90	159.10		C
1455	0.80	2.40	12.01	200 mL	4.62	17.52	0.073	5.10	165.10		C
1500	0.80	3.20	12.02	200 mL	4.69	17.51	0.071	4.70	159.10		C
1505	0.80	4.00	12.02	200 mL	4.71	17.53	0.072	4.80	158.20		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-11	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1508	Final Depth to Water	12.01	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-3	Job Number	8096
Client	Rowan	Date	7/12/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	0725/0830

WELL DATA

Well Depth	19.90	Well Diameter	2"	Water Height	7.75
Depth to Water	13.15	Screened Interval		x Multiplier	0.162
Water Column Length	7.75	Depth to Free Product	N/A	x Casing Volumes	1.26
Total Liters Purge	9 Lt.	Free Product Thickness	N/A	=Purge Volume	3.78
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	17'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
729	0.90		13.55	200 mL	6.27	22.63	0.385	36.40	-27.80		AC
734	0.90	1.80	13.58	200 mL	6.56	22.79	0.377	22.90	-87.10		C
739	0.90	2.70	13.60	200 mL	6.59	22.79	0.374	19.60	-93.10		C
744	0.90	3.60	13.62	200 mL	6.60	22.72	0.383	14.00	-96.20		C
749	0.90	4.50	13.64	200 mL	6.60	22.71	0.384	12.30	-94.00		C
754	0.90	5.40	13.65	200 mL	6.60	22.71	0.384	10.00	-89.10		C
759	0.90	6.30	13.66	200 mL	6.60	22.71	0.383	8.40	-89.10		C
804	0.90	7.20	13.65	200 mL	6.60	22.73	0.385	7.40	-95.20		C
809	0.90	8.10	13.66	200 mL	6.60	22.7	0.385	7.10	-99.20		C
814	0.90	9.00	13.67	200 mL	6.60	22.7	0.385	7.00	-99.10		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-3	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	816	Final Depth to Water	13.51	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-7	Job Number	8096
Client	Rowan	Date	7/12/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	0830/0935

WELL DATA

Well Depth	18.55	Well Diameter	2"	Water Height	4.95
Depth to Water	13.60	Screened Interval		x Multiplier	0.162
Water Column Length	4.95	Depth to Free Product	N/A	x Casing Volumes	0.8
Total Liters Purge	8 Lt.	Free Product Thickness	N/A	=Purge Volume	2.4
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	16'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
843	0.88		13.68	200 mL	5.68	22.3	0.192	9.60	132.60		C
848	0.88	1.76	13.69	200 mL	5.68	22.38	0.19	10.60	115.10		C
853	0.89	2.65	13.70	200 mL	5.71	22.31	0.191	8.60	113.20		C
858	0.88	3.53	13.71	200 mL	5.67	22.22	0.192	6.60	116.10		C
903	0.88	4.41	13.72	200 mL	5.69	22.17	0.192	5.10	115.10		C
908	0.89	5.30	13.71	200 mL	5.72	22.14	0.192	4.40	114.00		C
913	0.88	6.18	13.72	200 mL	5.74	22.14	0.193	4.00	113.00		C
918	0.88	7.06	13.72	200 mL	5.74	22.14	0.196	3.90	112.70		C
923	0.94	8.00	13.73	200 mL	5.76	22.18	0.196	3.50	111.90		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-7	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	925	Final Depth to Water	13.70	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-4	Job Number	8096
Client	Rowan	Date	7/12/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	0940/1035

WELL DATA

Well Depth	20.30	Well Diameter	2"	Water Height	6.50
Depth to Water	13.80	Screened Interval		x Multiplier	0.162
Water Column Length	6.50	Depth to Free Product	N/A	x Casing Volumes	1.05
Total Liters Purge	6 Lt.	Free Product Thickness	N/A	=Purge Volume	2.1
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	18'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
946	0.85		13.55	200 mL	5.18	22.16	1.5	12.30	93.10		C
951	0.85	1.70	13.56	200 mL	5.16	23.42	1.48	8.70	76.90		C
956	0.86	2.56	13.58	200 mL	5.14	23.54	1.45	6.10	80.60		C
1001	0.85	3.41	13.59	200 mL	5.14	23.66	1.45	5.60	80.30		C
1006	0.85	4.26	13.60	200 mL	5.13	23.59	1.480	4.90	77.60		C
1011	0.86	5.12	13.61	200 mL	5.11	23.39	1.49	4.20	77.00		C
1016	0.88	6.00	13.61	200 mL	5.07	23.29	1.5	3.90	78.00		C

SAMPLING DATA

Sample ID	FMW-4	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1025	Final Depth to Water	13.70	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL	Well I.D.	FMW-12		Job Number	8096
	Client	Rowan		Date	7/12/2012
	Project	Fashion Care		Sampler	JDK
	Weather	Clear / Hot		Time In/Out	10.48/11.54

WELL DATA

Well Depth	19.20	Well Diameter	2"	Water Height	7.19
Depth to Water	12.01	Screened Interval		x Multiplier	0.162
Water Column Length	7.19	Depth to Free Product	N/A	x Casing Volumes	1.16
Total Liters Purge	8 Lt.	Free Product Thickness	N/A	=Purge Volume	3.48
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	17'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1054	0.88		12.60	200 mL	5.52	17.52	0.168	14.10	103.70		C
1059	0.88	1.76	12.62	200 mL	5.04	17.26	0.141	35.70	109.80		C
1104	0.88	2.64	12.64	200 mL	5.38	17.29	0.138	30.50	97.40		C
1109	0.88	3.52	12.63	200 mL	5.48	17.22	0.147	16.70	82.50		C
1114	0.88	4.40	12.64	200 mL	5.59	17.22	0.151	12.50	69.10		C
1119	0.88	5.28	12.63	200 mL	5.63	17.21	0.155	11.20	61.80		C
1124	0.88	6.16	12.64	200 mL	5.70	17.21	0.155	10.80	55.10		C
1129	0.88	7.04	12.63	200 mL	5.73	17.2	0.156	10.90	51.10		C
1134	0.96	8.00	12.63	200 mL	5.74	17.5	0.157	10.70	47.80		C

SAMPLING DATA

Sample ID	FMW-12	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1025	Final Depth to Water	12.50	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	SB-24	Job Number	8096
Client	Rowan	Date	7/12/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	1155

WELL DATA

Well Depth	16.30	Well Diameter	2"	Water Height	1.60
Depth to Water	14.70	Screened Interval		x Multiplier	0.041
Water Column Length	1.60	Depth to Free Product	N/A	x Casing Volumes	0.066
Total Liters Purge		Free Product Thickness	N/A	=Purge Volume	0.198
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	14.5	Comments
Sampling Method	Bailer	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria

DRY

SAMPLING DATA

Sample ID	SB-24	Sampling Flow Rate	Bailer	Analytical Laboratory	AES	
Sample Time	1305	Final Depth to Water		Did Well Dewater?	Yes	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

1210 well pumped dry before first reading will sample tomarrow 7/13/12 with a bailer.

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	SB-25	Job Number	8096
Client	Rowan	Date	7/12/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	1217

WELL DATA

Well Depth	15.90	Well Diameter	1"	Water Height	1.10
Depth to Water	14.80	Screened Interval		x Multiplier	0.041
Water Column Length	1.10	Depth to Free Product	N/A	x Casing Volumes	0.045
Total Liters Purge		Free Product Thickness	N/A	=Purge Volume	0.135
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	15'	Comments
Sampling Method		Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria

DRY

SAMPLING DATA

Sample ID	SB-25	Sampling Flow Rate		Analytical Laboratory	AES	
Sample Time		Final Depth to Water		Did Well Dewater?	Yes	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

1223 well pumped dry before first reading will sample tomarrow 7/13/12 with a bailer.

7/13/12 not enough water to sample

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	SB-26	Job Number	8096
Client	Rowan	Date	7/12/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	1233

WELL DATA

Well Depth	16.35	Well Diameter	1"	Water Height	3.50
Depth to Water	12.85	Screened Interval		x Multiplier	0.041
Water Column Length	3.50	Depth to Free Product	N/A	x Casing Volumes	0.144
Total Liters Purge		Free Product Thickness	N/A	=Purge Volume	0.432
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	16'	Comments
Sampling Method	Bailer	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1241			14.85	200	5.09	23.49	0.487	7.00	174.20		VC

DRY

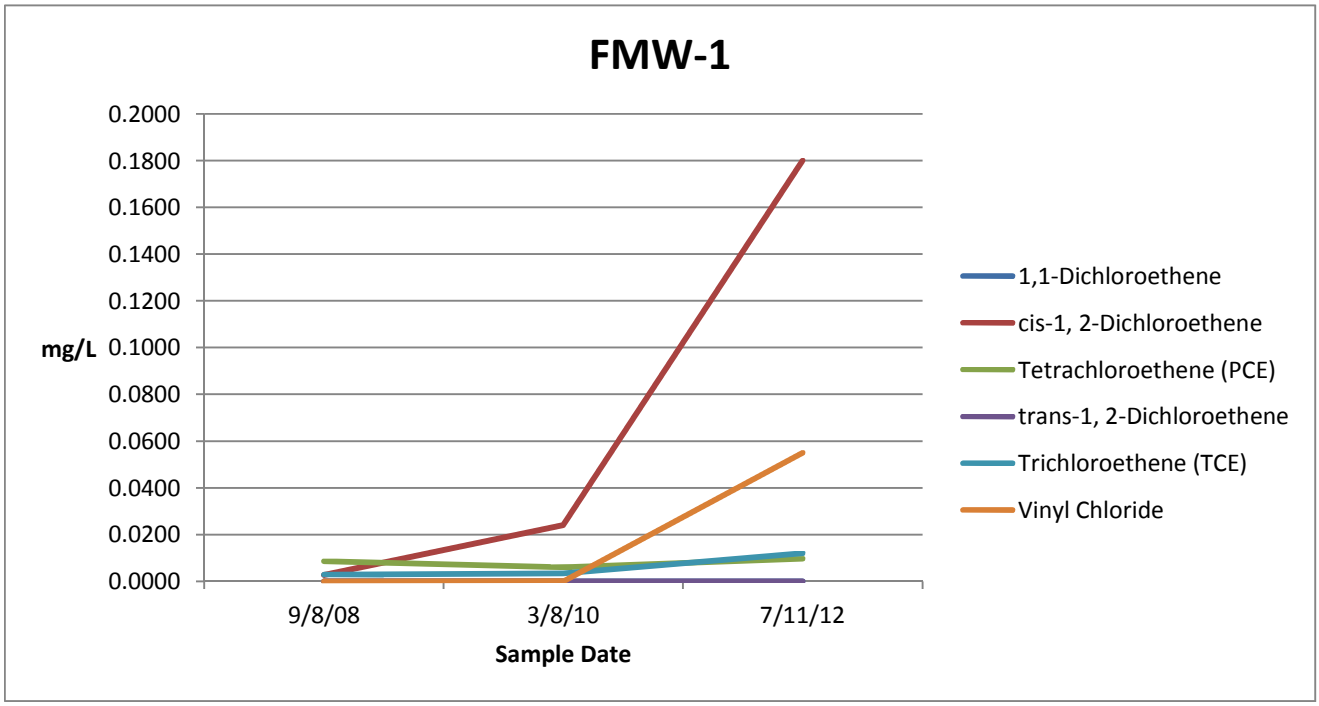
SAMPLING DATA

Sample ID	SB-26	Sampling Flow Rate	Bailer	Analytical Laboratory	AES	
Sample Time	1323	Final Depth to Water		Did Well Dewater?	Yes	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

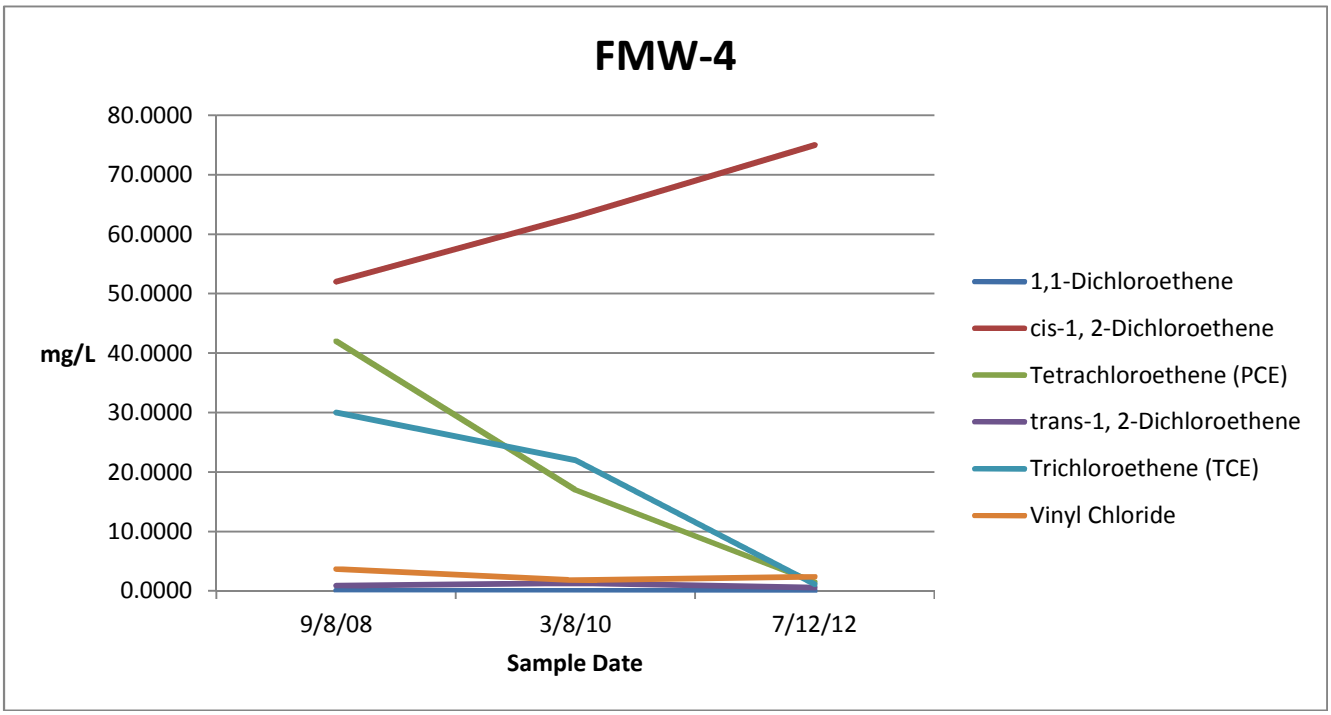
1241 well pumped dry before first reading will sample tomarrow 7/13/12 with a bailer.

Appendix D
Monitoring Well Graphs – Concentration vs. Time



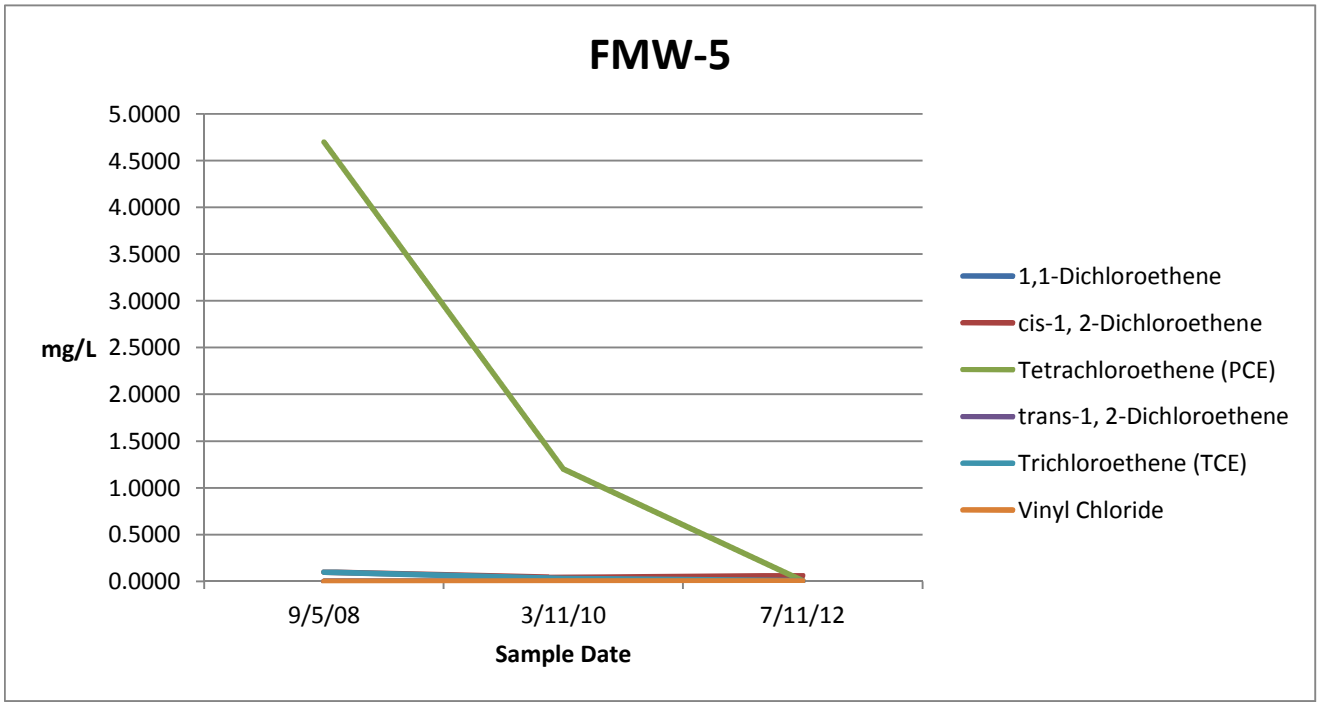
Sample Location	FMW-1	FMW-1[3]	FMW-1
Sample Date	**9/8/08**	**3/8/10**	**7/11/12**
1,1-Dichloroethene	<0.001	<0.005	<0.005
cis-1, 2-Dichloroethene	0.0027	0.024	0.18
Tetrachloroethene (PCE)	**0.0086**	**0.006**	**0.0097**
trans-1, 2-Dichloroethene	<0.001	<0.005	<0.005
Trichloroethene (TCE)	0.0028	0.0034	**0.012**
Vinyl Chloride	<0.001	<0.002	**0.055**

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker



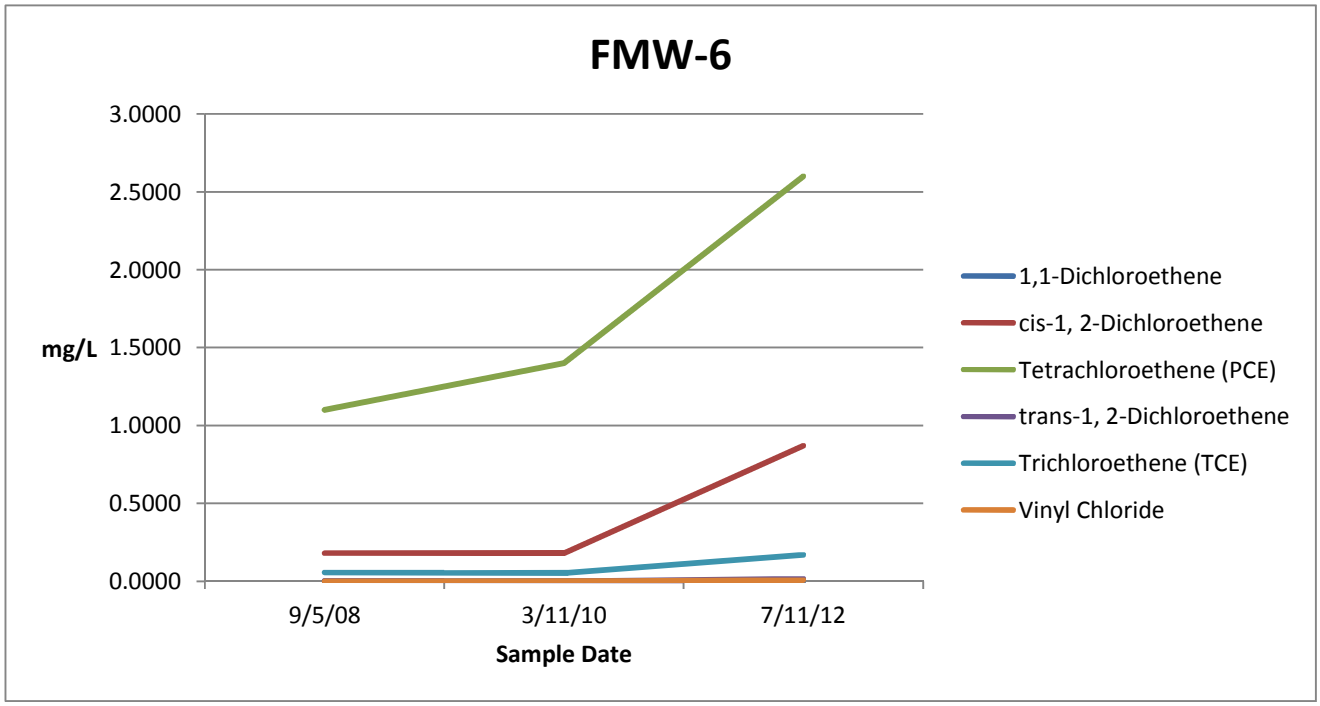
Sample Location	FMW-4	FMW-4	FMW-4
Sample Date	9/8/08	3/8/10	7/12/12
1,1-Dichloroethene	**0.061**	**0.038**	<0.5
cis-1, 2-Dichloroethene	**52.0**	**63.0**	**75**
Tetrachloroethene (PCE)	**42.0**	**17.0**	**1.5**
trans-1, 2-Dichloroethene	**0.90**	**1.3**	**0.54**
Trichloroethene (TCE)	**30.0**	**22.0**	**1.1**
Vinyl Chloride	**3.7**	**1.8**	**2.4**

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker



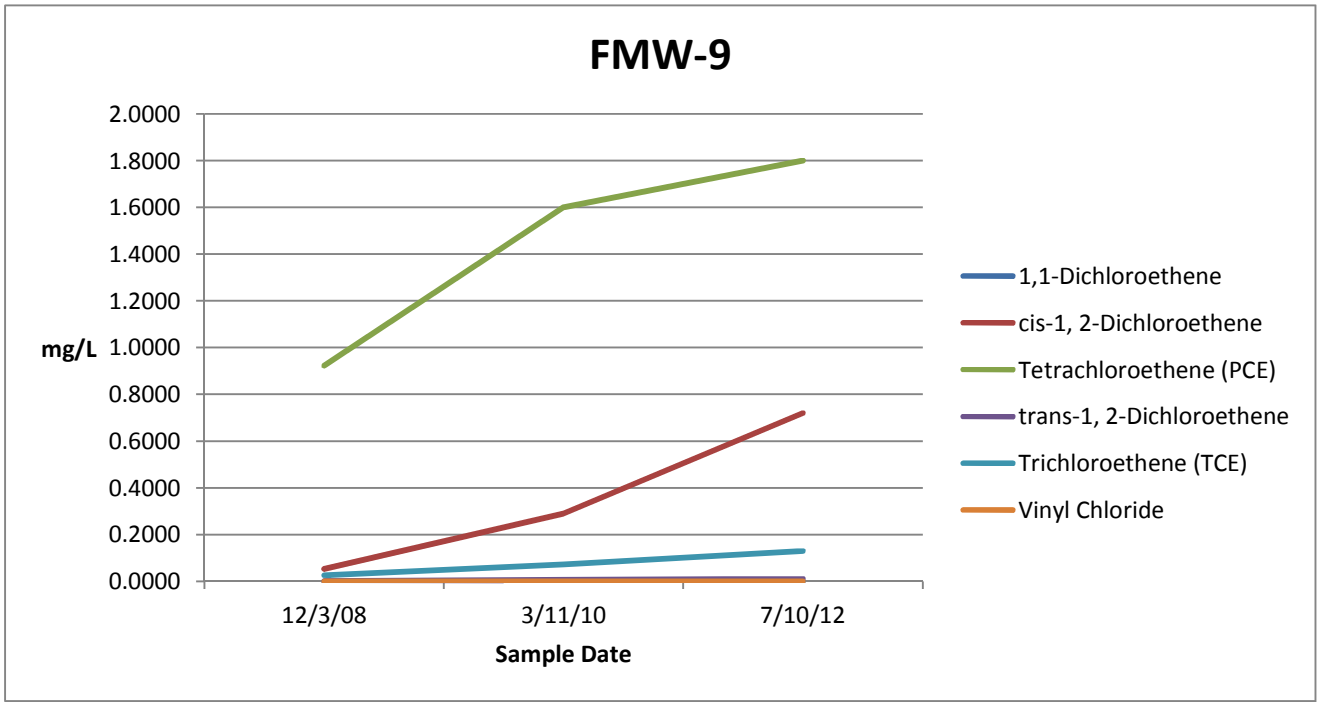
Sample Location	FWM-5	FWM-5	FMW-5
Sample Date	**9/5/08**	**3/11/10**	**7/11/12**
1,1-Dichloroethene	<0.001	<0.005	<0.005
cis-1, 2-Dichloroethene	0.1	0.039	0.059
Tetrachloroethene (PCE)	**4.7**	**1.2**	**0.0073**
trans-1, 2-Dichloroethene	<0.001	<0.005	<0.005
Trichloroethene (TCE)	**0.1**	**0.029**	**0.0068**
Vinyl Chloride	<0.001	**0.0028**	**0.0071**

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker



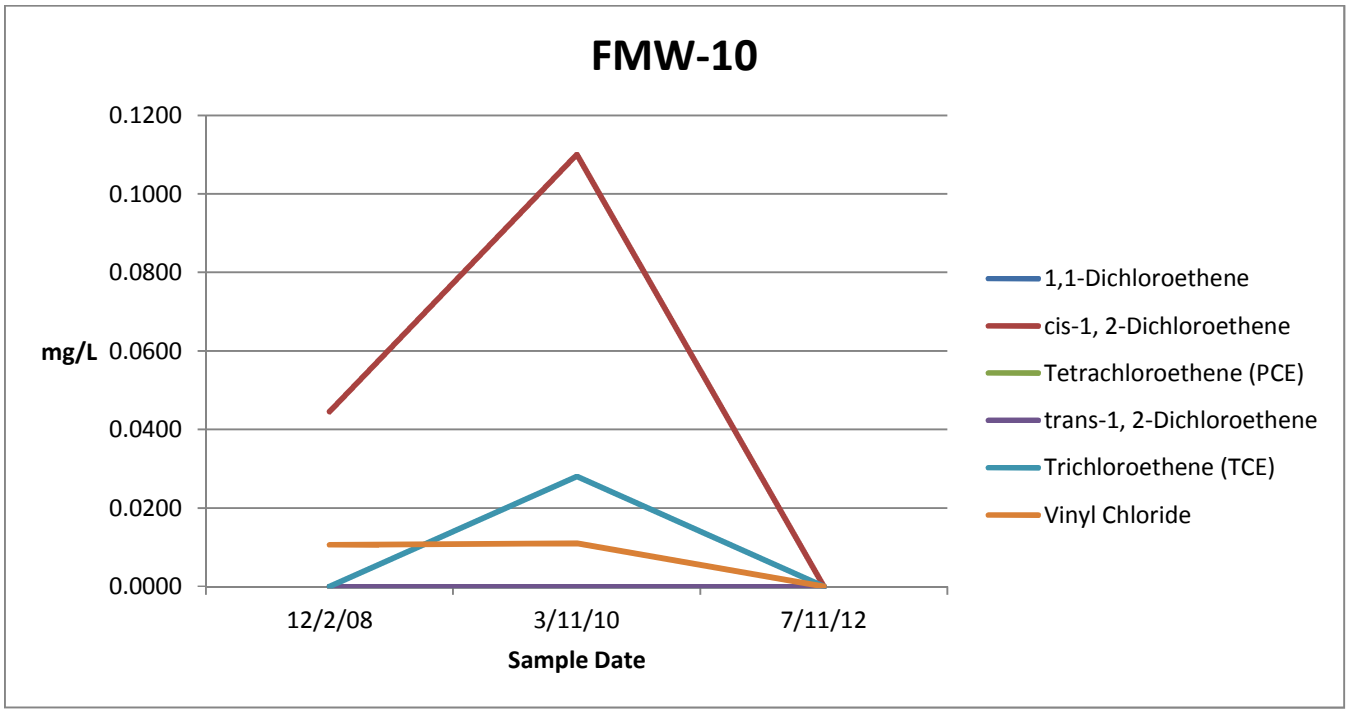
Sample Location	FMW-6	FMW-6	FMW-6
Sample Date	**9/5/08**	**3/11/10**	**7/11/12**
1,1-Dichloroethene	<0.001	<0.005	<0.005
cis-1, 2-Dichloroethene	0.18	0.18	**0.87**
Tetrachloroethene (PCE)	**1.1**	**1.4**	**2.6**
trans-1, 2-Dichloroethene	0.0036	<0.005	0.016
Trichloroethene (TCE)	**0.056**	**0.052**	**0.17**
Vinyl Chloride	<0.001	<0.002	**0.0078**

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker



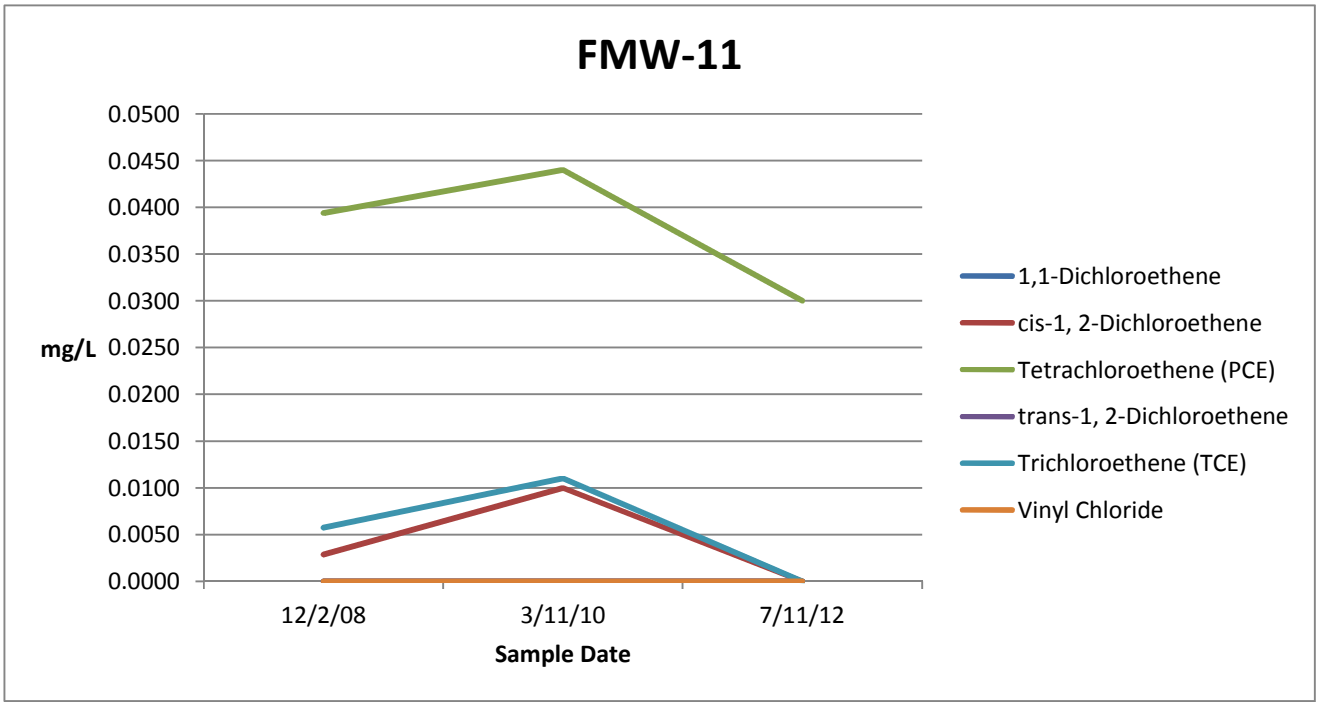
Sample Location	FMW-9	FMW-9	FMW-9
Sample Date	**12/3/08**	**3/11/10**	**7/10/12**
1,1-Dichloroethene	<0.001	<0.005	<0.005
cis-1, 2-Dichloroethene	0.0534	0.29	**0.72**
Tetrachloroethene (PCE)	**0.922**	**1.6**	**1.8**
trans-1, 2-Dichloroethene	0.00086	0.0062	0.01
Trichloroethene (TCE)	**0.0262**	**0.072**	**0.13**
Vinyl Chloride	<0.001	<0.002	<0.002

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker



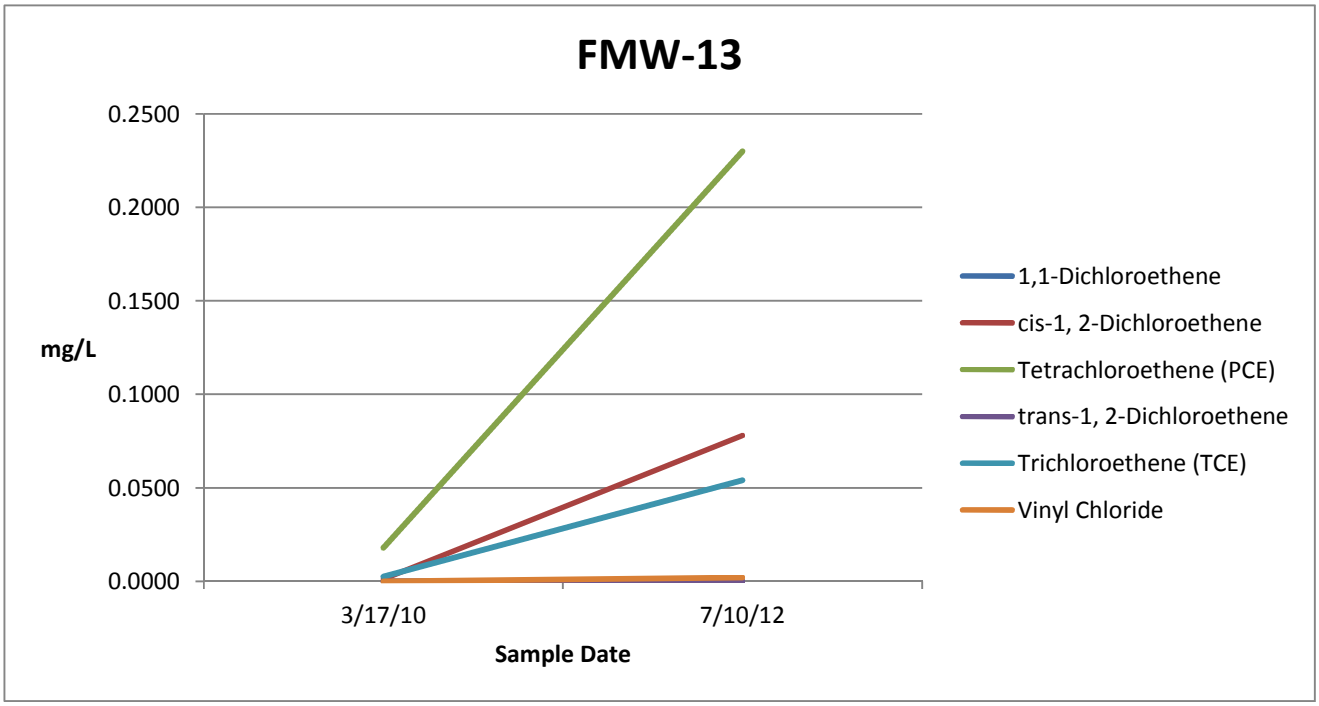
Sample Location	FMW-10	FMW-10	FMW-10
Sample Date	**12/2/08**	**3/11/10**	**7/11/12**
1,1-Dichloroethene	<0.001	<0.005	<0.005
cis-1, 2-Dichloroethene	0.0445	0.11	<0.005
Tetrachloroethene (PCE)	<0.001	<0.005	<0.005
trans-1, 2-Dichloroethene	<0.001	<0.005	<0.005
Trichloroethene (TCE)	<0.001	**0.028**	<0.005
Vinyl Chloride	**0.0106**	**0.011**	<0.002

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker



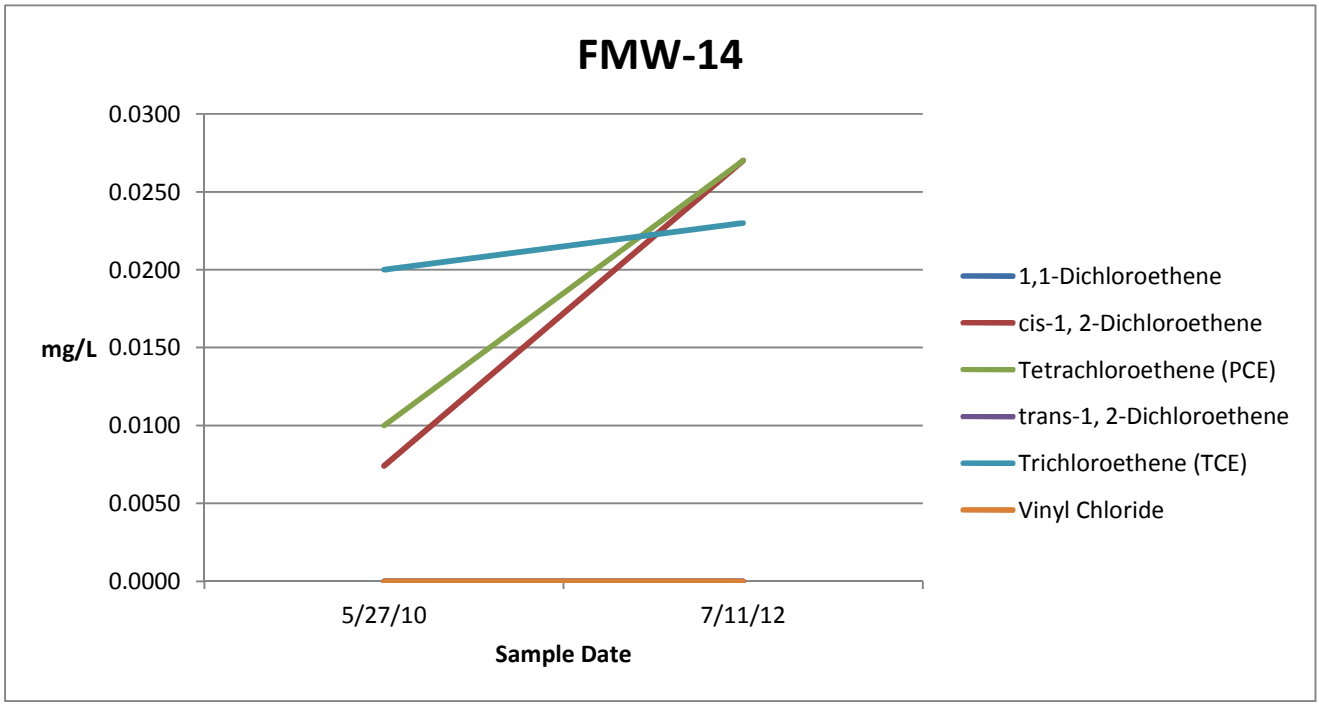
Sample Location	FMW-11	FMW-11	FMW-11
Sample Date	**12/2/08**	**3/11/10**	**7/11/12**
1,1-Dichloroethene	<0.001	<0.005	<0.005
cis-1, 2-Dichloroethene	0.00288	0.01	<0.005
Tetrachloroethene (PCE)	**0.0394**	**0.044**	**0.03**
trans-1, 2-Dichloroethene	<0.001	<0.005	<0.005
Trichloroethene (TCE)	**0.00573**	**0.011**	<0.005
Vinyl Chloride	<0.001	<0.002	<0.002

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker



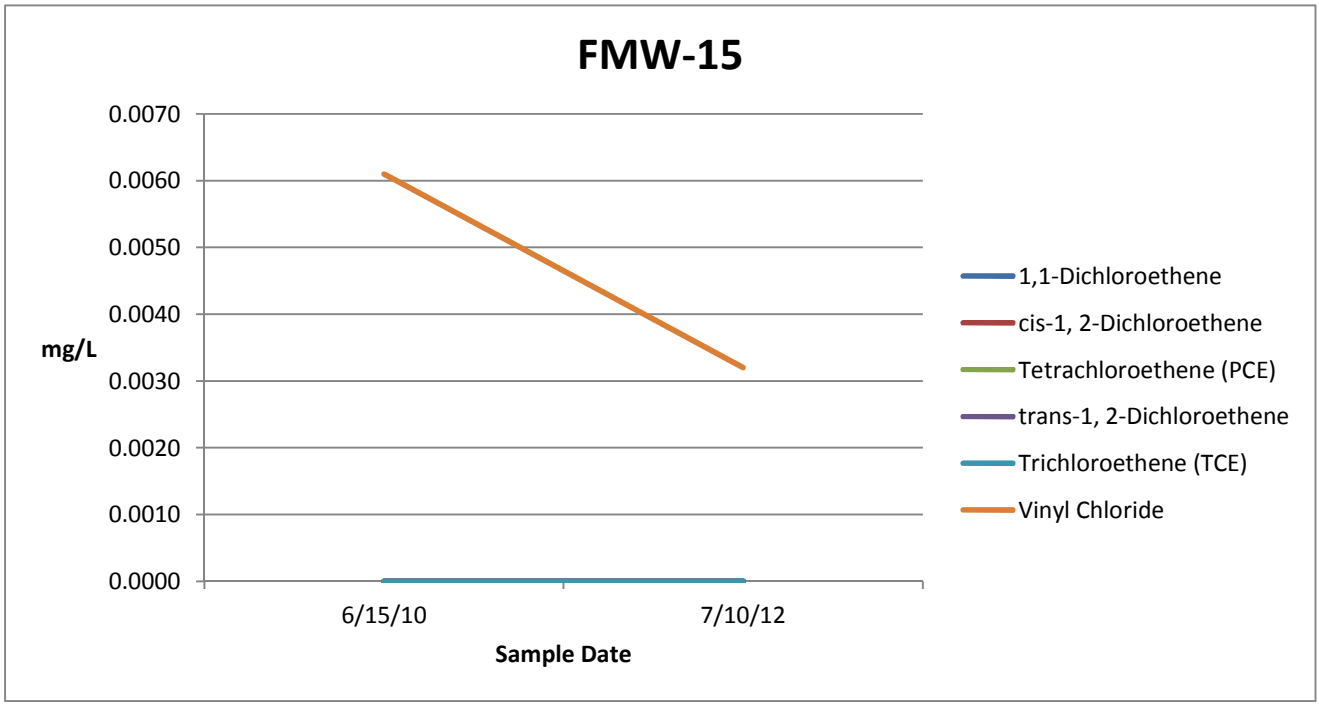
Sample Location	FMW-13	FMW-13
Sample Date	**3/17/10**	**7/10/12**
1,1-Dichloroethene	<0.005	<0.005
cis-1, 2-Dichloroethene	0.0011	0.078
Tetrachloroethene (PCE)	**0.018**	**0.23**
trans-1, 2-Dichloroethene	<0.005	<0.005
Trichloroethene (TCE)	0.0026	**0.054**
Vinyl Chloride	<0.002	0.002

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker



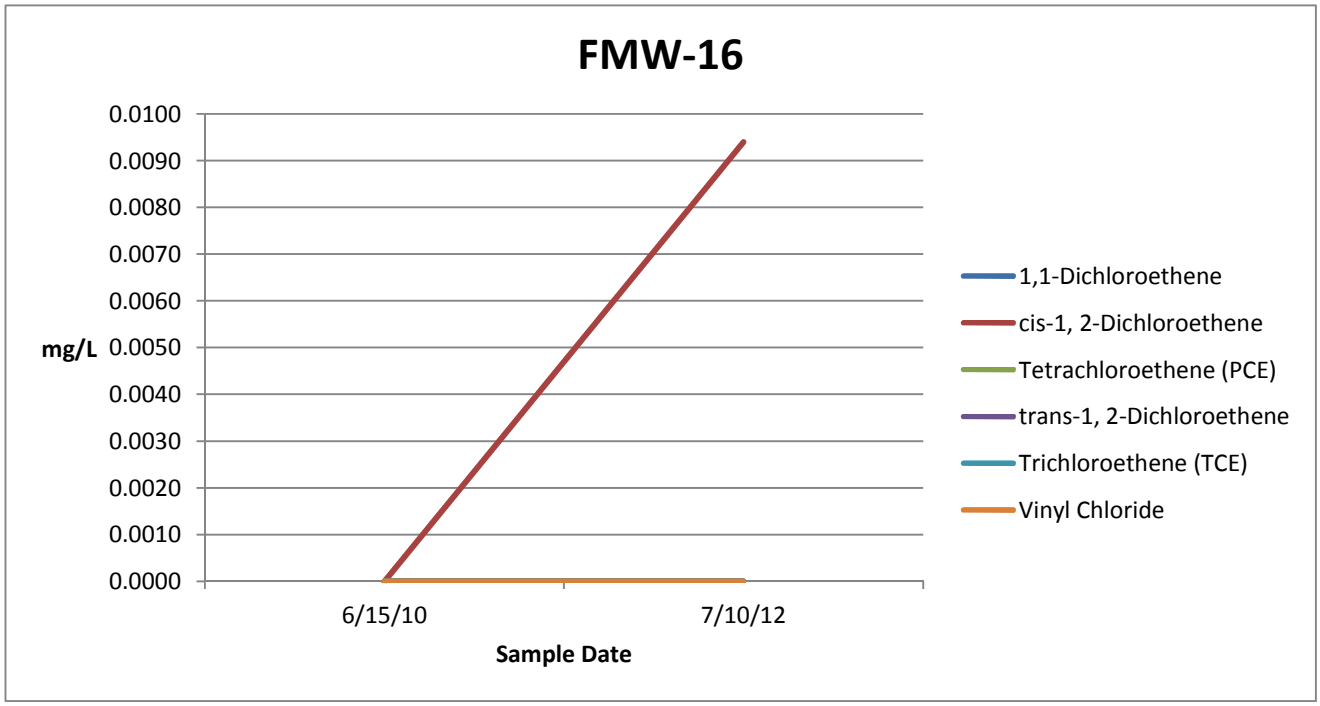
Sample Location	FMW-14	FMW-14
Sample Date	**5/27/10**	**7/11/12**
1,1-Dichloroethene	<0.005	<0.005
cis-1, 2-Dichloroethene	**0.0074**	0.027
Tetrachloroethene (PCE)	**0.01**	**0.027**
trans-1, 2-Dichloroethene	<0.005	<0.005
Trichloroethene (TCE)	**0.02**	**0.023**
Vinyl Chloride	<0.002	<0.002

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker



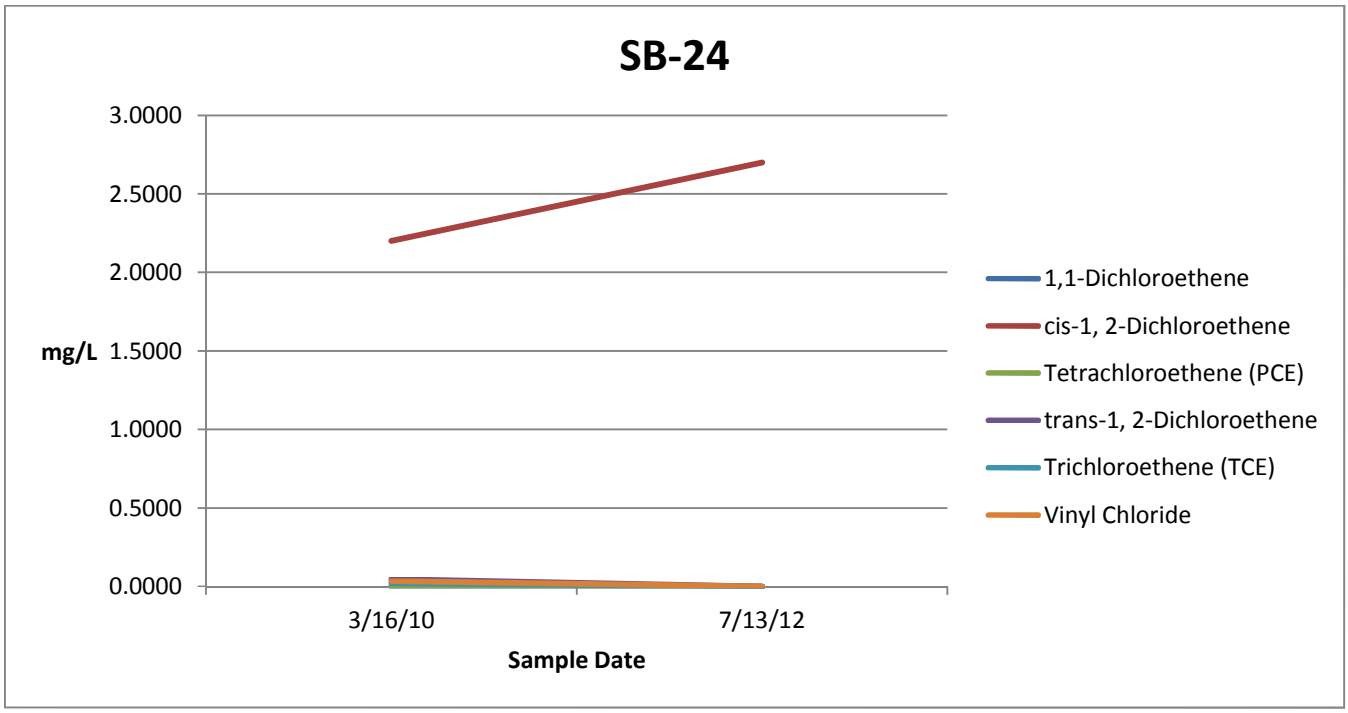
Sample Location	FMW-15	FMW-15
Sample Date	**6/15/10**	**7/10/12**
1,1-Dichloroethene	<0.005	<0.005
cis-1, 2-Dichloroethene	<0.005	<0.005
Tetrachloroethene (PCE)	<0.005	<0.005
trans-1, 2-Dichloroethene	<0.005	<0.005
Trichloroethene (TCE)	<0.005	<0.005
Vinyl Chloride	**0.0061**	**0.0032**

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker



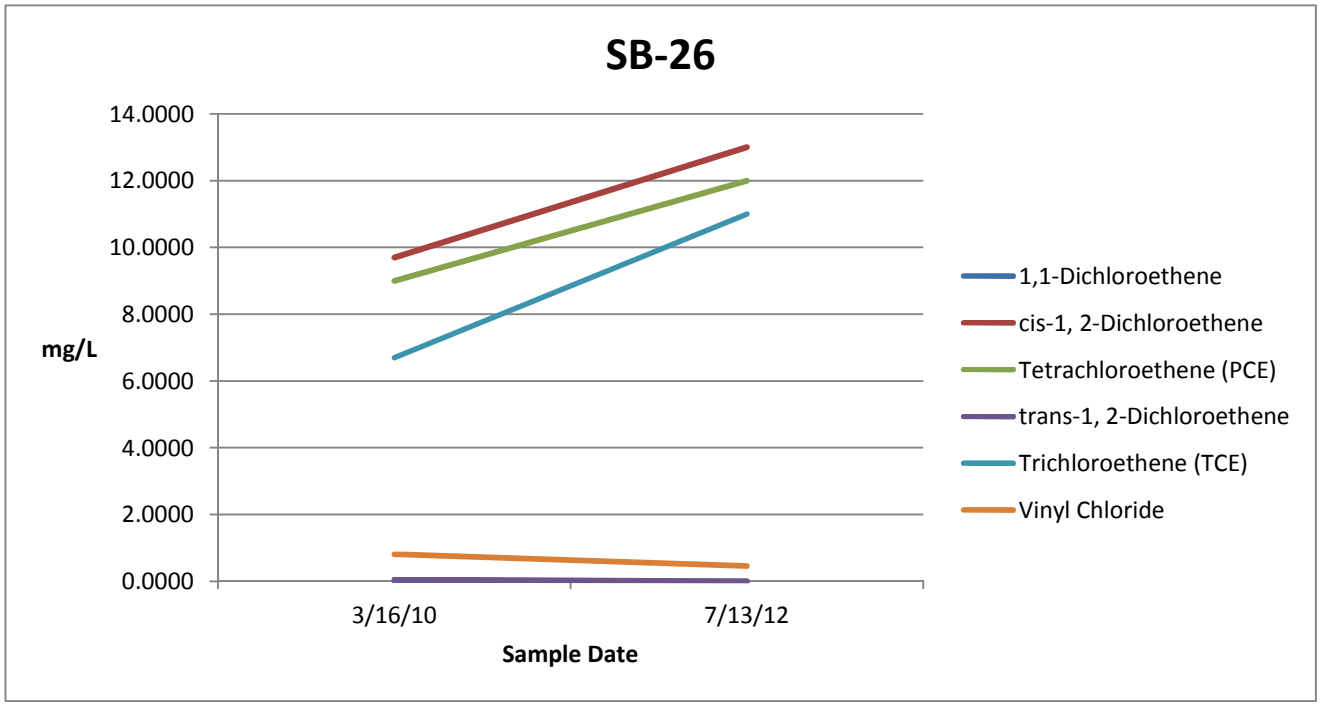
Sample Location	FMW-16	FMW-16
Sample Date	**6/15/10**	**7/10/12**
1,1-Dichloroethene	<0.005	<0.005
cis-1, 2-Dichloroethene	<0.005	0.0094
Tetrachloroethene (PCE)	<0.005	<0.005
trans-1, 2-Dichloroethene	<0.005	<0.005
Trichloroethene (TCE)	<0.005	<0.005
Vinyl Chloride	<0.002	<0.002

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker



Sample Location	SB-24	SB-24
Sample Date	**3/16/10**	**7/13/12**
1,1-Dichloroethene	<0.1	<0.5
cis-1, 2-Dichloroethene	**2.2**	**2.7**
Tetrachloroethene (PCE)	<0.1	<0.5
trans-1, 2-Dichloroethene	0.046	<0.5
Trichloroethene (TCE)	**0.02**	<0.5
Vinyl Chloride	**0.035**	<0.2

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker



Sample Location	SB-26	SB-26
Sample Date	**3/16/10**	**7/13/12**
1,1-Dichloroethene	<0.25	<0.5
cis-1, 2-Dichloroethene	**9.7**	**13**
Tetrachloroethene (PCE)	**9.0**	**12**
trans-1, 2-Dichloroethene	0.057	<0.5
Trichloroethene (TCE)	**6.7**	**11**
Vinyl Chloride	**0.81**	**0.46**

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker

VOLUNTARY REMEDIATION PROGRAM
VOLUNTARY INVESTIGATION AND REMEDIATION PLAN SEMIANNUAL STATUS REPORT

Date: December 6, 2013

Site Name: Fashion Care/Executive Care Site, HSI No. 10786

Site Address: 2211 Savoy Drive, Chamblee, Georgia

County: DeKalb

This electronic copy of the Voluntary Investigation and Remediation Plan Semiannual Status Report dated December 6, 2013 for the above referenced Fashion Care/Executive Care Site, HSI No. 10786, 2211 Savoy Drive, Chamblee, Georgia, DeKalb County is complete, identical to the paper copy, and virus free.

COMMITMENT & INTEGRITY
DRIVE RESULTS

2055 Sugarloaf Circle | Suite 175
Duluth, Georgia 30097
woodardcurran.com

T 770.622.6766
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WOODARD
&CURRAN

December 6, 2013

Mr. Jason Metzger
Compliance Officer – Environmental Engineer
Georgia Environmental Protection Division
Hazardous Sites Response Program
2 Martin Luther King, Jr. Drive, SE
Atlanta, GA 30334

Subject: Voluntary Investigation and Remediation Plan Semiannual Status Report Fashion Care/Executive Care Site, Hazardous Site Inventory (HSI) No. 10786 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, December 6, 2013 Woodard & Curran Project No. 226203.00

Dear Mr. Metzger:

Enclosed for your review is the Voluntary Investigation and Remediation Plan Semiannual Status Report for the Fashion Care/Executive Care Site (Site), Hazardous Site Inventory No. 10786, located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia. There is one hard copy and two CD's of the report enclosed.

Please contact me with any questions or comments you may have.

Sincerely,

WOODARD & CURRAN INC.

Leonard J. Diprima, Jr., P.G.
Senior Project Manager

LJD/arm

Enclosure(s)

cc: Project File

Semiannual Status Report

Voluntary Remediation Program

Fashion Care/Executive Care Site
HSI No. 10786
2211 Savoy Drive, Chamblee, DeKalb County, Georgia

226203.00

John F. Rowan, Sr., Item IV Trust
Carmel Valley, CA

December 6, 2013

770.622.6766
Leonard Diprima

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

Voluntary Investigation and Remediation Plan
Semiannual Status Report
Voluntary Remediation Program

(June 3, 2013 through December 2, 2013)

Fashion Care/Executive Care Site
HSI No. 10786
2211 Savoy Drive, Chamblee, DeKalb County, Georgia

Prepared For

John F. Rowan, Sr. Item IV Trust
PO Box 197, Carmel Valley, CA 93924

Prepared by

WOODARD &CURRAN

2055 Sugarloaf Parkway, Suite 175
Duluth, Georgia 30097

Project No. 226203

December 6, 2013

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Figure 4 Proposed Deep Well Location
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Appendix A Boring Logs

Section 1
PE/PG Certification

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

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

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

Leonard J. Diprima, Jr. / Georgia PG #949	December 6, 2013
Printed Name and GA PE/PG Number	Date

Signature and Stamp

Section 2
Introduction

Woodard & Curran (W&C) has prepared this Voluntary Investigation and Remediation Plan Semiannual Status Report (Status Report) in accordance with the Voluntary Remediation Program (VRP) for the Fashion Care/Executive Care Site (Site), Hazardous Site Inventory (HSI) No. 10786, located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, on behalf of the John F. Rowan, Sr. Item IV Trust (Trust). On July 9, 2010, a Voluntary Investigation and Remediation Plan Application (VIRP) was submitted to the Georgia Environmental Protection Division (EPD) Hazardous Sites Response (HSRA) Program for the Site. On December 2, 2010, the EPD approved the VIRP with comments and entered the Site into the VRP. This Status Report has been prepared to present the activities conducted from June 3, 2013 through December 2, 2013 for the Site in accordance with the VRP.

Section 3
Work Performed – June 3, 2013 through December 2, 2013

The activities currently identified to be performed at the Site under the VRP are outlined in the following documents:

- VIRP dated July 9, 2010;
- EPD VIRP approval letter dated December 2, 2010;
- EPD VIRP comment letter dated December 2, 2010;
- VRP Action Plan Technical Memorandum dated February 3, 2011 included as an attachment to the Financial Assurance submittal to the EPD dated March 2, 2011; and the
- EPD VIRP Status Report comment letter dated November 13, 2013.

The primary activity that has been performed from June 3, 2013 through December 2, 2013 is the refining of the Conceptual Site Model (Figure 1) through the installation of soil borings across the impacted area to confirm presence/absence of a dry silt, shallow confining unit.

3.1 Refining of the Conceptual Site Model

Prior to the most recent soil boring event conducted in November 2013, the lithology and suspected hydrogeology presented in the conceptual site model had been based upon the theory that the saturated soil zone is divided into an upper and lower water bearing zone, separated by a dense, dry silt. This was based upon evidence that the upper water bearing zone is thinner adjacent to Nancy Creek where saturated conditions are encountered in borings as shallow as 5 feet below grade and the dense dry silt is encountered at depths of 8 to 16 feet below grade, which generally corresponds to the streambed of Nancy Creek adjacent to the Site. The vertical walls and wide streambed also supported this hypothesis.

The thickness of the potential upper water bearing zone appears to be greater to the north near Savoy Drive and thins as Nancy Creek is approached. It was theorized that the dense dry silt had not been encountered in the borings near Savoy Drive because all the borings had penetrated the water table generally no more than 7 to 8 feet to set wells and the upper water bearing zone in this area is thicker. This suspected division in the water table aquifer on Site is significant for the evaluation of groundwater impacts and the groundwater modeling to be conducted to establish a VRP groundwater monitoring plan. It is suspected that the previous deep well, MW-23D, installed by the UST Program contractor for the adjacent EZ-Serve UST remediation site, may have penetrated this dry silt separating the shallow water bearing zones and provided a limited conduit for vertical migration of constituents. MW-23D has since been abandoned by the UST program.

To confirm the lithology presented in the conceptual site model, ten (10) additional soil borings were advanced across the Site in November 2013 using a direct-push drilling method (DPT). These borings, SB-37 through SB-46 shown on Figure 2, were advanced to confirm the consistent presence of the dry silt across the site and to determine the thickness of this layer. Five (5) previous borings on the property adjacent to Nancy Creek had encountered the dry silt, FMW-12, FMW-15, FMW-16, old FMW-17 (boring was advanced but well not installed) and FMW-17. The presence of the dry silt was confirmed across the Site. As anticipated, the dry silt was encountered at deeper depths at the higher elevation around the Fashion Care building, depths ranging from 23 feet below ground surface (bgs) to 23.3 feet bgs. Toward the creek, as elevations get lower, the dry silt is encountered as shallower depths below grade ranging from 8 feet bgs (FMW-15) to 19 feet bgs (SB-46).

The dry silt is reddish-brown in color and very dense. In a number of borings drilling was terminated with DPT refusal due to the dense, hard nature of the material. When slight pressure was applied to a solid core of the silt it would crumble into loose material, indicative of the lack of moisture in the silt.

The SB-37 and SB-38 boring locations were selected to try and penetrate the dry silt to determine the general thickness of the layer to aid in planning the construction of a Type III monitoring well to be screened below the silt. These locations were selected because they are outside the area of drycleaner impacts. The dry silt was successfully penetrated in boring SB-37 and was found to be approximately 10 feet thick (23 feet bgs to 33 feet bgs). The silt was not penetrated in SB-38 before drilling refusal. Approximately 5 feet of dry silt was encountered before refusal. Boring logs for SB-37 through SB-46 are in Appendix A. All boring were abandoned with hydrated bentonite to form a seal.

Section 4
Work to be Performed

The additional activities anticipated to be performed at the Site through completion of the VIRP are outlined in the VIRP dated July 9, 2010, the EPD VIRP approval letter dated December 2, 2010, the EPD VIRP comment letter dated December 2, 2010, and the VRP Action Plan Technical Memorandum dated February 3, 2011 included as an attachment to the Financial Assurance submittal to the EPD dated March 2, 2011. Additional comments provided by the EPD regarding the June 2, 2012, December 2, 2012 and June 2, 2013 Status Reports in correspondence dated November 13, 2013 will also be addressed during the execution of the VIRP.

These tasks are presented on Figure 3. The primary tasks anticipated to be completed during the next six months for the period ending June 2, 2014 are presented in detail below.

Anticipated Tasks December 3, 2013 through June 2, 2014:

- Completion of the Conceptual Site Model (Figure 1):
  - Installation and sampling of a Type III monitoring well screened below the dry silt, between the base of the dry silt and the top of bedrock. The well location agreed upon by the EPD and Woodard & Curran is shown on Figure 4.
  - Conduct an additional slug test in the shallow water bearing zone for input into a groundwater model. Two previous slug tests have been conducted in the shallow water bearing zone.

- Collection of a current round of groundwater and surface water samples from select locations. The data will be used to model the groundwater contaminant plume upon the completion of the conceptual site model. Samples will be collected from the following locations to obtain a current characterization of the drycleaner constituent plume: FMW-1, FMW-4, FMW-5, FMW-6, FMW-9, FMW-13, FMW-14, FMW-15, FMW-16, FMW-17, SW-1, SW-2 and SW-3.

- The following actions for the Uniform Environmental Covenant (UEC) for the Southern Automatic property (parcel # 18-343-13-005) will be completed by the Trust:
  - Identify "Parties with interest in the Property". This will include anyone with an easement across the property, mortgage holder, etc.
  - Identify the surrounding property owners.
  - At least 30 days prior to obtaining the EPD Director's signature, a copy of the covenant will be sent to the following:
    - Anyone identified as a "Grantee/Holder";
    - Each person holding a recorded interest in the property; "Parties with interest in the Property";
    - "Fee Owner of Property/Grantor";

- Each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located; and
- Each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

- Within thirty (30) days after the date of the EPD Director's signature, the Trust shall:
  - File the EC with the Recorders of Deeds for the County in which the Property is located;
  - Send a file stamped copy of the EC to EPD within thirty (30) days of recording;
  - Send a file-stamped copy to each of the following:
    - Anyone identified as a "Grantee/Holder";
    - Each person holding a recorded interest in the property; "Parties with interest in the Property";
    - "Fee Owner of Property/Grantor";
    - Each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located; and
    - Each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

- Work with the EPD to modify the UEC for the Estate's property (parcel #18-343-13-002) to meet the requirements outlined in EPD Comment #3 in the November 13, 2013 EPD correspondence to the Estate.

- Develop final vapor mitigation system design for the current building on the Fashion Care property. Installation is anticipated for the 3rd quarter of 2014.

If possible, the following activities will also be initiated or completed during this period:

- Preparation of a "Corrective Action Plan" to be implemented if surface water detections occur during future surface water sampling events.

- Modeling to the drycleaner impacts to enable preparation of a VRP Groundwater Monitoring Plan.

The tasks currently identified to complete the VIRP are presented on Figure 5, a revised estimated schedule. This schedule will be revised with the submittal of each Semiannual Status Report, as required.

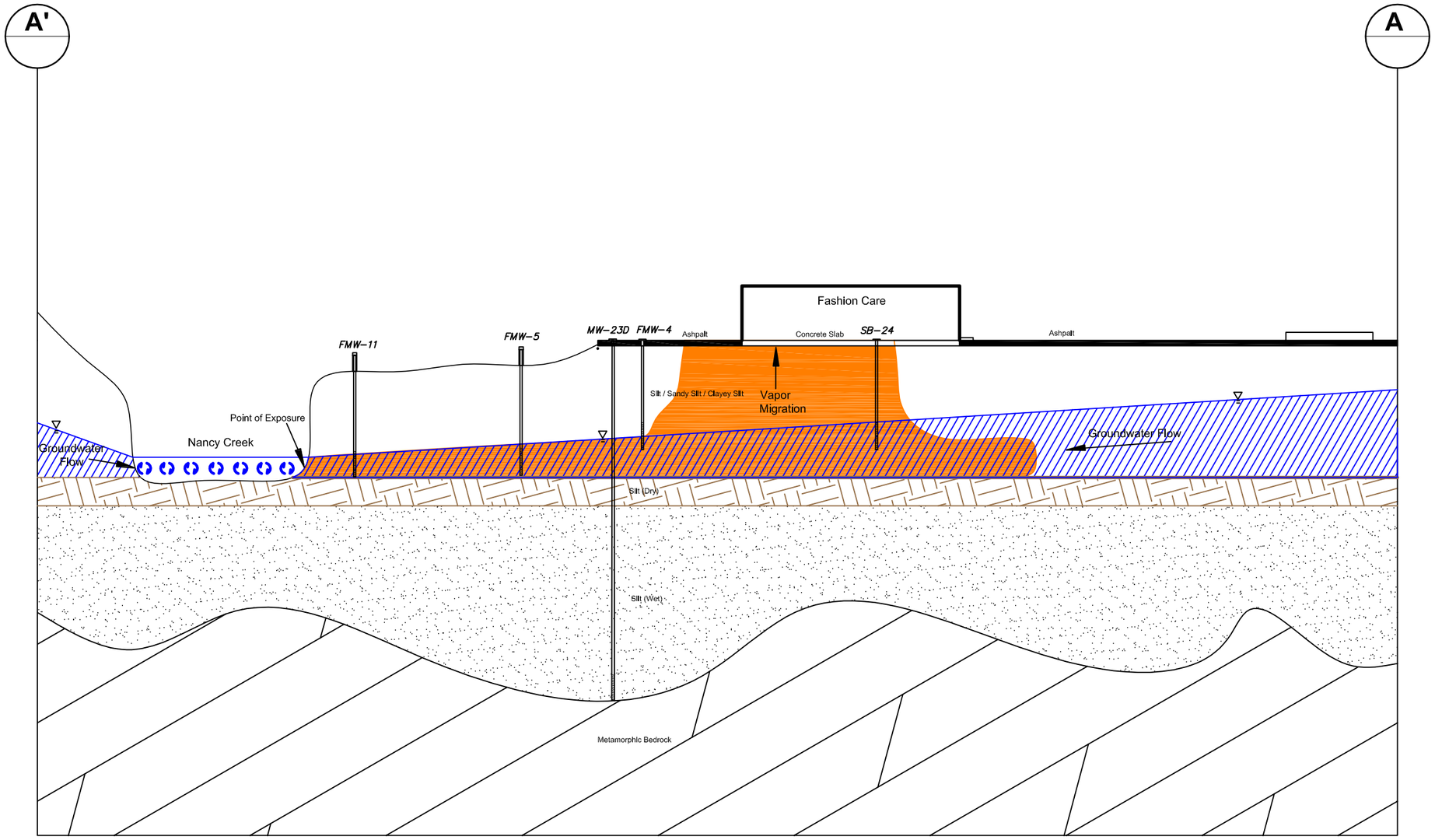
Section 5
Professional Services Hours This Period

A total of approximately 100 professional service hours have been completed by Woodard & Curran from June 3, 2013 through December 2, 2013. Of these total hours, 66 hours were utilized by the professional geologist overseeing the VRP project. The approximate distribution of hours utilized for implementation of the VRP during this period is presented below.

Company	Month/Year	Project Manager / P.G. hours	Total Hours Worked
Woodard & Curran	June 2013	21	31.5
Woodard & Curran	July 2013	1.5	1.5
Woodard & Curran	August 2013	0	0
Woodard & Curran	September 2013	7	7
Woodard & Curran	October 2013	14.25	18.05
Woodard & Curran	November 2013	22.25	42.75
	Total Hours	**66.00**	**100.80**

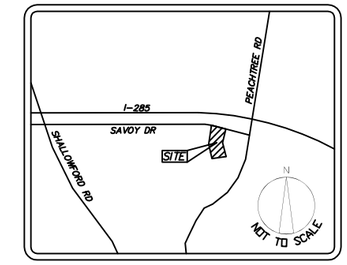
Note: The above hours do not include subcontractor hours worked for Woodard & Curran.

Figures



0' 30' 60' 90'

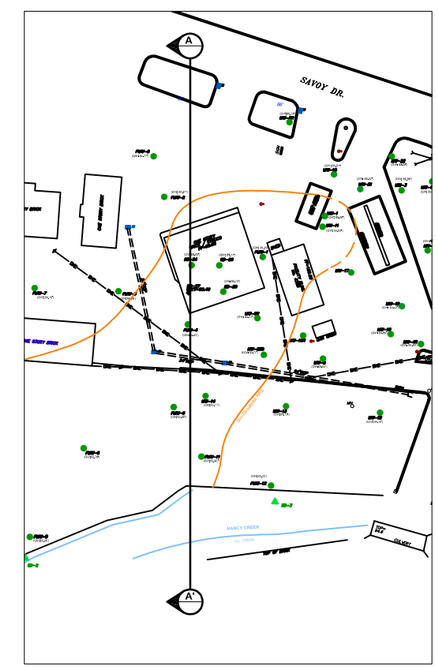
Approximate HORIZONTAL SCALE



VICINITY MAP

LEGEND

- Impacted Soil
- Impacted Groundwater
- Groundwater

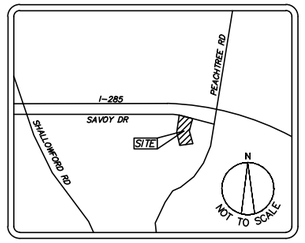


Referenced Drawing is Based off of Landpro Survey

PROJECT NO.	DRAWN	DATE
08096	GTM	6/28/10

WOODARD & CURRAN

Figure 1
Conceptual Site Model
Fashion Care / Executive Care Site
2211 Savoy Dr
Chamblee, GA 30341



VICINITY MAP

LEGEND

- APPROXIMATE PROPERTY LINE
- MW-8 — MONITORING WELL (SHOWN AS FADED IF ABANDONED)
- SD-1 — SEDIMENT SAMPLE LOCATION
- SB-9 — 11/2013 SOIL BORING LOCATION
- [14 ft.] — APPROX. DEPTH BELOW GRADE TO TOP OF DRY SILT

0 30 60
SCALE IN FEET

N

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

SAVOY DR.
2201 SAVOY DRIVE 18-343-13-003
FASHION CAR/EXECUTIVE CARE 2211 SAVOY DRIVE 18-343-13-002
RESTAURANT
RESTAURANT
FASHION CLEANERS DRYCLEANERS
RESTAURANT
Shed
UST Area
Canopy
Fuel Pumps
EZ-Serve Gas Station Bldg. No. 4308
FF=100.00
Car Wash
Bus Stop
Sidewalk
D.O.T. MH
SIG. BOX
4306 NORTH PEACHTREE ROAD 18-343-13-005
4308 NORTH PEACHTREE ROAD 18-343-13-001
RETAIL / DENTIST
EDGE OF ASPHALT
EDGE OF ASPHALT
24"RCP
Sign
MH1
NORTH PEACHTREE RD.
NORTH SHALLOWFORD ROAD 18-333-02-023
NANCY CREEK
C.L. CREEK
TOP OF BANK
TOP OF BANK
TOP OF BANK
TOP OF BANK
EDGE OF WATER
CULVERT
TOP= 94.6
SD-1
SD-3
SEDIMENT SAMPLE COLLECTED DOWN STREAM IN FROM OF CULVERT UNDER SHALLOWFORD ROAD

MW-2R, MW-22, MW-15, MW-21, MW-3, MW-16, MW-1, MW-11, MW-20, MW-17, MW-19, MW-18, MW-4R, MW-9R, MW-10R, MW-23D, MW-8, MW-14, MW-13, MW-12

FMW-8, FMW-2, SB-38 [23 ft.], SB-24, SB-25, SB-26, FMW-1, FMW-7, SB-37 [23 ft.], FMW-3, FMW-4, SB-39 [24.3 ft.], FMW-17 [14 ft.], FMW-15 [8 ft.], SB-45 [17 ft.], FMW-10, SB-42 [17 ft.], FMW-5, SB-40 [17 ft.], FMW-6, SB-41 [17 ft.], FMW-11, FMW-13, SB-44 [15 ft.], FMW-12 [15 ft.], OLD FMW-17 [16 ft.], FMW-16 [13 ft.], FMW-14, SB-46 [19 ft.], FMW-9, SB-43 [15 ft.], SW-1, SW-2, SW-11, SW-3, SW-9, SG-2, SW-14 [81.87]

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COMMITMENT & INTEGRITY DRIVE RESULTS

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REV	DESCRIPTION	DATE

DESIGNED BY:
DRAWN BY:
CHECKED BY:
DRY SILTING

FIGURE 2
DEPTH TO TOP OF DRY SILT

FASHION CARE
DRYCLEANING CARE SITE

2211 SAVOY DRIVE
CHAMBLEE, GA 30341

JOB NO.:
DATE:
SCALE:
SHEET: OF

Figure 3
Flow Chart – Voluntary Investigation & Remediation Plan Tasks
(Completed tasks are noted.)

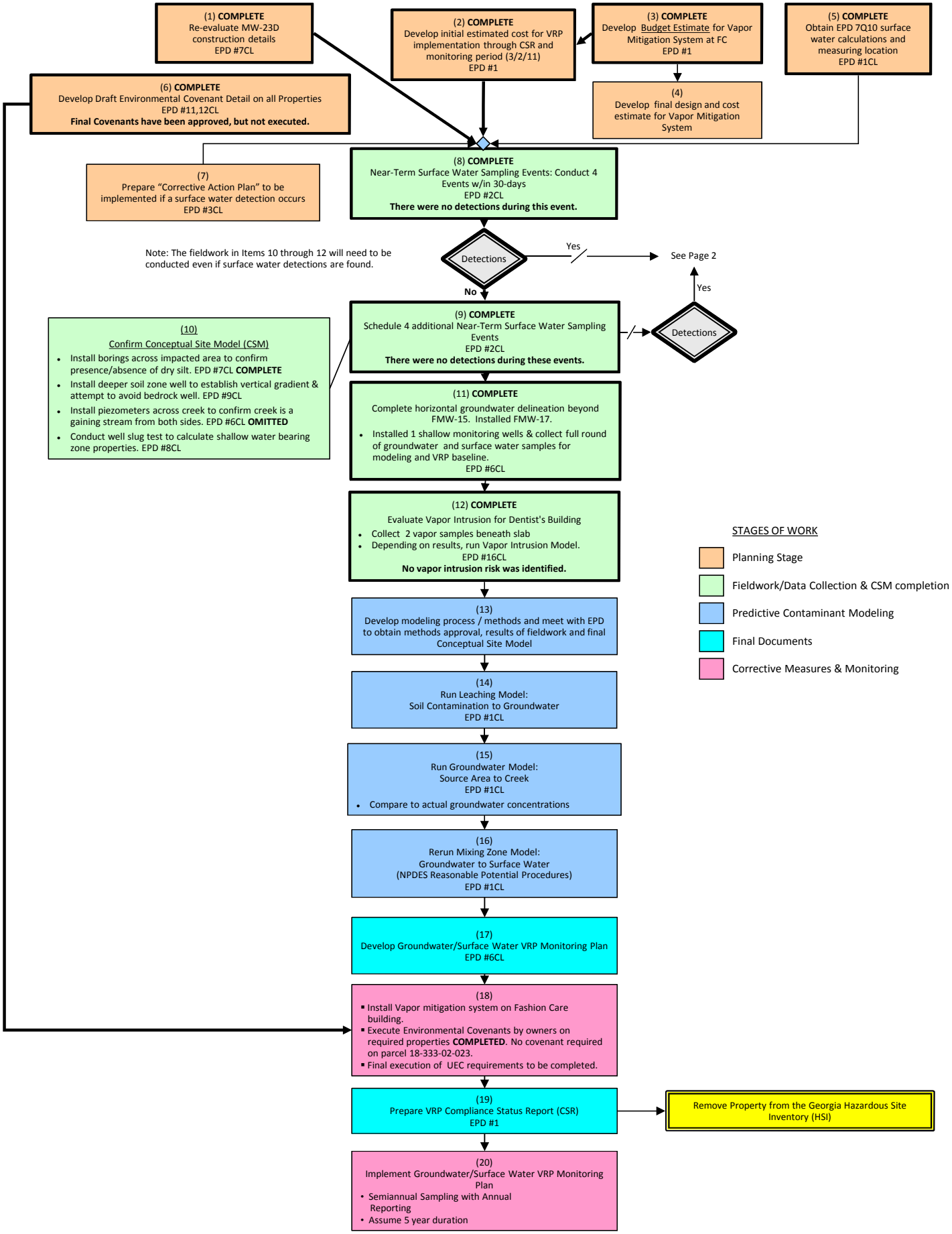
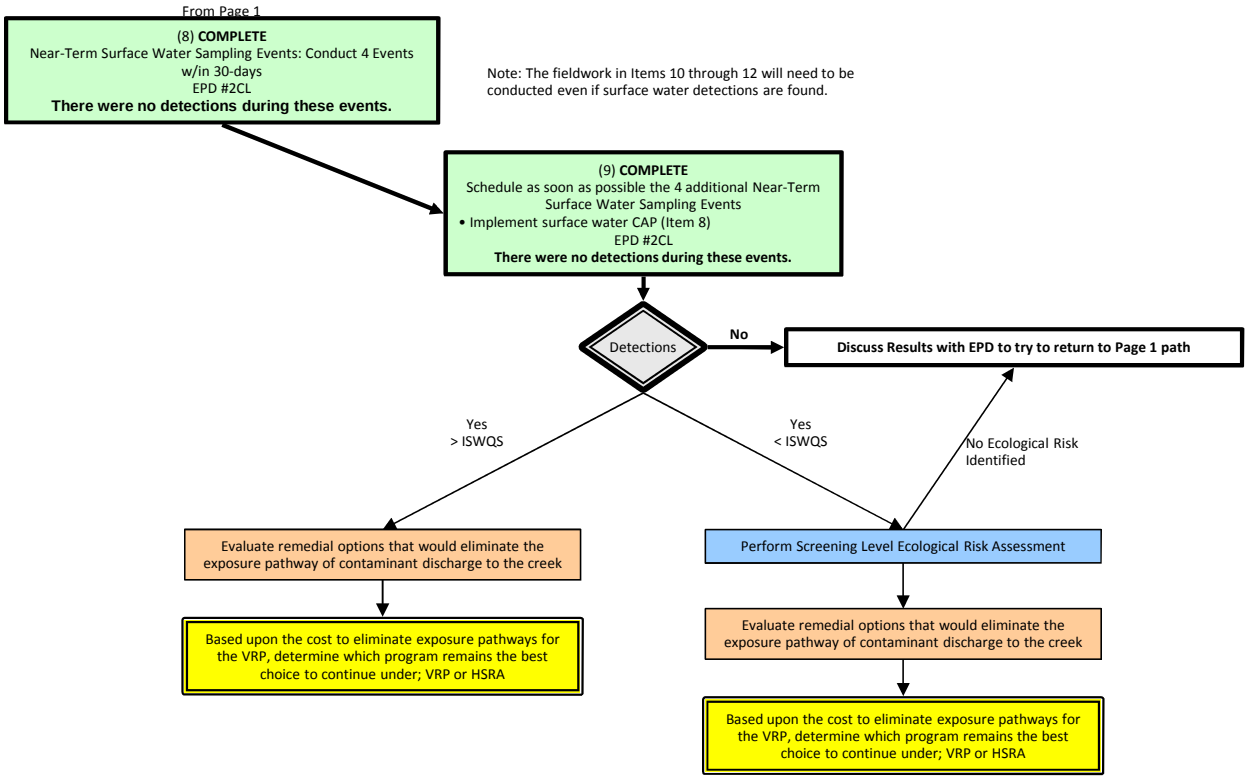
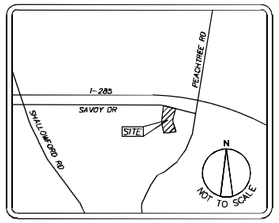


Figure 6 Contd.

Flow Chart – Voluntary Investigation & Remediation Plan Tasks



ISWQS = Georgia In-Stream Water Quality Standards



VICINITY MAP

LEGEND

- APPROXIMATE PROPERTY LINE
- SD-1 SEDIMENT SAMPLE LOCATION
- MW-17 ABANDONED MONITORING WELL
- FMW-15 [80.85] GROUNDWATER SAMPLE LOCATION
- SW-1 SURFACE WATER SAMPLE LOCATION
- TYPE 1 & 3 RRS
- TYPE 5 CONSTRUCTION WORKER RRS
- TYPE 5 UTILITY WORKER RRS

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

0 30 60
SCALE IN FEET

N

SAVOY DR.

2201 SAVOY DRIVE
18-343-13-003

FASHION CAR/EXECUTIVE CARE
2211 SAVOY DRIVE
18-343-13-002

RESTAURANT

RESTAURANT

4308 NORTH PEACHTREE ROAD
18-343-13-005

RETAIL / DENTIST

EDGE OF ASPHALT

FASHION CLEANERS
DRYCLEANERS

RESTAURANT

UST Area

Car Wash

Fuel Pumps

Canopy

4308 NORTH PEACHTREE ROAD
18-343-13-001

Bus Stop

Sidewalk

D.O.T. MH

SIG. BOX

NORTH PEACHTREE RD.

24"RCP

Sign

MH

NORTH SHALLOWFORD ROAD
18-333-02-023

NANCY CREEK

C.L. CREEK

TOP OF BANK

EDGE OF WATER

CULVERT

TOP= 94.6

SD-1

SD-3

SW-1

SW-2

SW-3

SG-2

SEDIMENT SAMPLE COLLECTED DOWN STREAM IN FROM OF CULVERT UNDER SHALLOWFORD ROAD

Proposed Location of Type III well screened below the dry silt layer

FMW-2
ALL ND

FMW-3
ALL ND

FMW-4
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 75
TETRACHLOROETHENE (PCE) – 1.5
TRANS-1,2-DICHLOROETHENE – 0.54
TRICHLOROETHENE (TCE) – 1.1
VINYL CHLORIDE – 2.4

FMW-5
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.059
TETRACHLOROETHENE (PCE) – 0.0073
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – 0.0068
VINYL CHLORIDE – 0.0071

FMW-6
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.87
TETRACHLOROETHENE (PCE) – 2.6
TRANS-1,2-DICHLOROETHENE – 0.016
TRICHLOROETHENE (TCE) – 0.17
VINYL CHLORIDE – 0.0078

FMW-7
ALL ND

FMW-8
ALL ND

FMW-9
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.72
TETRACHLOROETHENE (PCE) – 1.8
TRANS-1,2-DICHLOROETHENE – 0.01
TRICHLOROETHENE (TCE) – 0.13
VINYL CHLORIDE – ND

FMW-10
ALL ND

FMW-11
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – ND
TETRACHLOROETHENE (PCE) – 0.03
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – ND
VINYL CHLORIDE – ND

FMW-12
ALL ND

FMW-13
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.078
TETRACHLOROETHENE (PCE) – 0.23
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – 0.054
VINYL CHLORIDE – 0.002

FMW-14
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.027
TETRACHLOROETHENE (PCE) – 0.027
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – 0.023
VINYL CHLORIDE – ND

FMW-15
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – ND
TETRACHLOROETHENE (PCE) – ND
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – ND
VINYL CHLORIDE – 0.0032

FMW-16
ICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.0094
TETRACHLOROETHENE (PCE) – ND
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – ND
VINYL CHLORIDE – ND

SB-24
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 2.7
TETRACHLOROETHENE (PCE) – ND
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – ND
VINYL CHLORIDE – ND

SB-25

SB-26
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 13
TETRACHLOROETHENE (PCE) – 12
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – 11
VINYL CHLORIDE – 0.46

MW-1 MW-2R MW-3 MW-4R MW-8 MW-9R MW-10R MW-11 MW-12 MW-13 MW-14 MW-15 MW-16 MW-17 MW-18 MW-19 MW-20 MW-21 MW-22 MW-23D

Drawn By: GHA/LD	Date: 12-06-14
Checked by: LD	Project No.

Woodard & Curran
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Duluth, GA 30097
770-622-6766

WOODARD & CURRAN

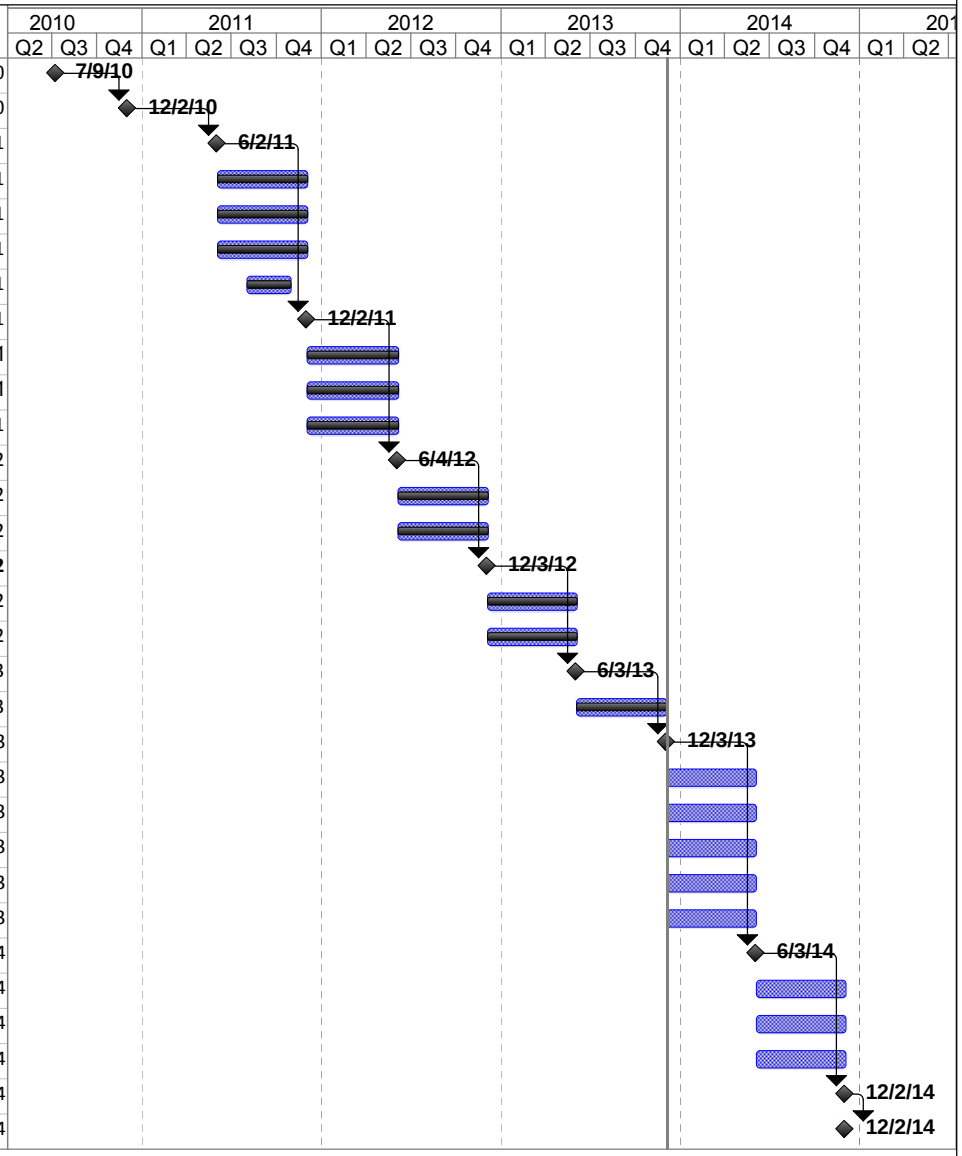
FIGURE 4
PROPOSED DEEP WELL LOCATION
(July 2012 Groundwater Data)
Fashion Care Executive Care VRP Site
2211 Savoy Drive, Chamblee, GA

Figure 5

Estimated Voluntary Remediation Plan Schedule

Fashion Care/Executive Care Site, 2211 Savoy Drive, Chamblee, Georgia

ID	Task Name	Duration	Start
1	**VIRP Application Submittal**	0 days	Fri 7/9/10
2	**EPD Approval of VIRP**	0 days	Thu 12/2/10
3	**1st VIRP Status Report**	0 days	Thu 6/2/11
4	Vapor Sampling Evaluation/J&E Modeling	132 days	Thu 6/2/11
5	Revise Draft Ecs	132 days	Thu 6/2/11
6	Final Design for Vapor Mitigation System	132 days	Thu 6/2/11
7	Conduct 8 Surface Water Sampling Events	65 days	Mon 8/1/11
8	**2nd VIRP Status Report**	0 days	Fri 12/2/11
9	Finalize J&E Vapor Models	132 days	Fri 12/2/11
10	Finalize Utility & Construction Worker Standards	132 days	Fri 12/2/11
11	Finalize Environmental Covenants	132 days	Fri 12/2/11
12	**3rd VIRP Status Report**	0 days	Mon 6/4/12
13	Full Round of Groundwater & Surface Water Samples	131 days	Mon 6/4/12
14	Execute Environmental Covenants (2 of 3)	131 days	Mon 6/4/12
15	**4th VIRP Status Report**	**0 days**	**Mon 12/3/12**
16	Attempt to Execute ASL Environmental Covenant	131 days	Mon 12/3/12
17	Complete Horizontal Groundwater Delineation	131 days	Mon 12/3/12
18	**5th VIRP Status Report**	0 days	Mon 6/3/13
19	Fieldwork to Confirm CSM	131 days	Mon 6/3/13
20	**6th VIRP Status Report**	0 days	Tue 12/3/13
21	Collect Additional Round of GW and SW Samples	131 days	Tue 12/3/13
22	Prepare Surface Water CAP	131 days	Tue 12/3/13
23	Complete Filing of Environmental Covenants	131 days	Tue 12/3/13
24	Complete Vertical Groundwater Delineation	131 days	Tue 12/3/13
25	Site Fate & Transport Modeling	131 days	Tue 12/3/13
26	**7th VIRP Status Report**	0 days	Tue 6/3/14
27	Install Vapor Mitigation System - Fashion Care Building	131 days	Tue 6/3/14
28	Prepare VRP Groundwater & Surface Water Monitoring Plan	131 days	Tue 6/3/14
29	Prepare VRP CSR	131 days	Tue 6/3/14
30	**Submit VRP CSR**	0 days	Tue 12/2/14
31	**Implement Groundwater & Surface Water Monitoring Plan**	0 days	Tue 12/2/14



Appendix A
Boring Logs

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-37

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	Diprima/King
DTW:	7.5'	Final Depth:	35'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt			There is approx. 10' of dry silt at this location from 23'-33'
	Reddish Brown to tan silty CLAY - moist	65%		Boring was sealed w/hydrated bentonite
5		90%		
▽	Light gray SAND - saturated (7.5')			
	Brown to Dark grey silty CLAY to clayey SILT - moist			
10		100%		
15				
	Light Gray silty SAND - wet	80%		
	Reddish Brown to tan SILT- moist			
20	Becoming Dry @ 23'			
	Dense material	95%		
25		95%		
30		100%		
	Becoming moist @ 34'			
35	Boring Terminated @ 35'			
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-38

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	Diprima/King
DTW:	12'	Final Depth:	33'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt			Solvent odor in boring
	Reddish Brown to Brown clayey SILT - moist	75%		Dry silt from 23' to refusal.
5	Grading to Lt Gray to Gray SILT- moist	60%		Boring was sealed w/hydrated bentonite
10	Saturated @ 12'	100%		
15	Becoming Dry @ 18'	95%		
20	21'-23' wet 23'-27' dry	75%		
25	27'-28.5' wet	100%		
	28.5'-33' Reddish-brown dry dense SILT	100%		
30	Refusal @ 33'			
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-39

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	Diprima/King
DTW:	15'	Final Depth:	33.5'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt			Solvent odor in boring
	Reddish-Brown clayey SILT	50%		Dry silt from 24.3' to refusal. Still dry at refusal.>9' thick
5	Lt Gray SAND - moist	50%		Boring was sealed w/hydrated bentonite
	Brown to Dark Gray clayey SILT - moist			
10	Lt Gray clayey SILT moist	100%		
15 ▽	Lt. Gray SAND - wet @16'	70%		
	Reddish-Brown SILT - moist			
20	24.3'-28' dry	100%		
25	28'-29' moist/wet	100%		
30	29'-33.5' Reddish-brown dry dense SILT	100%		
	Refusal @ 33.5'			
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-40

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	12.5'	Final Depth:	25'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Reddish-Brown clayey SILT - moist	50%		Dry silt from 17' to 25' (termination).
				Boring was sealed w/hydrated bentonite
5				Picture # 1&2
	Reddish Brown sandy SILT - moist	90%		
	Becoming Red to Gray			
10				
	Becoming Red to Tan	70%		
▽	Saturated @ 12.5'			
	Lt. Gray clayey SILT - wet			
15				
	Reddish Brown SILT - wet	70%		
	Reddish-Brown SILT - dry, dense			
20				
	17' to 25' dry	90%		
25				
	Boring Terminated @ 25'			
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-41

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	7.5'	Final Depth:	21'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Reddish-Brown sandy SILT - dry	40%		Dry silt from 17' to 21' (refusal).
				Boring was sealed w/hydrated bentonite
5				Picture # 3
	Becoming Reddish-Gray - moist	85%		
▽	Saturated @ 7.5'			
10		80%		
	Reddish-Brown sandy SILT - moist			
15	Red to Brown SILT - moist	40%		
	Reddish-Brown SILT - dry, dense			
20		10%		
	Refusal @ 21'			
25				
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-42

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	10'	Final Depth:	25'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Reddish-Brown clayey SILT - dry	60%		Dry silt from 17' to 25' (termination).
	Becoming moist			Boring was sealed w/hydrated bentonite
5		90%		Picture # 4
10 ▽	Reddish-Brown sandy SILT- wet, saturated @11'	90%		
15	Reddish-Brown clayey SILT - moist	70%		
	Reddish-Brown SILT - dry, dense	70%		
20				
25	Boring Terminated @ 25'			
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-43

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	9'	Final Depth:	20'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Reddish-Brown sandy SILT - dry	40%		Dry silt from 15' to 20' (termination).
				Boring was sealed w/hydrated bentonite
5	Becoming moist	60%		Picture # 5&6
10	Gray to Tan SAND, course - wet, saturated @ 9' w/pebbles	50%		
	Reddish-Brown SILT - moist			
15	Reddish-Brown SILT - dry, dense	90%		
20	Boring Terminated @ 20'			
25				
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-44

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	7'	Final Depth:	20'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Reddish-Brown clayey SILT - dry	50%		Dry silt from 15' to 20' (termination).
	Becoming moist			Boring was sealed w/hydrated bentonite
5				Picture # 7 is the bottom 0f 10'-15' and 15'-20'
▽	Gray SAND course - wet, saturated @7'	60%		
10	w/some pebbles	70%		
	Tan to Reddish-Brown SILT - moist			
15	Tan to Reddish-Brown SILT - dry, dense	100%		
20	Boring Terminated @ 20'			
25				
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-45

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/8/13
Location:	2211 Savoy Dr	Date Completed:	11/8/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	9'	Final Depth:	25'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Brown to Tan sandy SILT - moist	90%		Dry silt from 17' to 25' (termination).
				Boring was sealed w/hydrated bentonite
5	Becoming Tan to Gray	70%		Picture # 10&11
▽				
10	Reddish-Tan to Gray SAND, course - wet, saturated @ 9'	80%		
	Reddish-Brown clayey SILT - moist			
15		80%		
	Red to Tan to Brown SILT - dry, dense			
20		100%		
25	Boring Terminated @ 25'			
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-46

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/8/13
Location:	2211 Savoy Dr	Date Completed:	11/8/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	7'	Final Depth:	25'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Red to Brown sandy SILT - moist	50%		Dry silt from 18' to 25' (termination).
				Boring was sealed w/hydrated bentonite
5				Picture # 8 & 9
▽	Gray-Black SAND, course w/pebbles - wet, saturated @ 7'	50%		
10		50%		
15	Reddish-Tan clayey SILT - moist	70%		
	Red to Tan SILT - dry, dense			
20		90%		
	Reddish-Black saprolite - dry			
25	Boring Terminated @ 25'			
30				
35				
40				

WOODARD
&CURRAN

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

VOLUNTARY REMEDIATION PROGRAM
VOLUNTARY INVESTIGATION AND REMEDIATION PLAN SEMIANNUAL STATUS REPORT

Date: June 2, 2012

Site Name: Fashion Care/Executive Care Site, HSI No. 10786

Site Address: 2211 Savoy Drive, Chamblee, Georgia

County: DeKalb

This electronic copy of the Voluntary Investigation and Remediation Plan Semiannual Status Report dated June 2, 2012 for the above referenced Fashion Care/Executive Care Site, HSI No. 10786, 2211 Savoy Drive, Chamblee, Georgia, DeKalb County is complete, identical to the paper copy, and virus free.

WINTER ENVIRONMENTAL

June 2, 2012

Mr. Jason Metzger
Compliance Officer – Environmental Engineer
Georgia Environmental Protection Division
Hazardous Sites Response Program
2 Martin Luther King, Jr. Drive, SE
Atlanta, GA 30334

Subject: Voluntary Investigation and Remediation Plan Semiannual Status Report for the Fashion Care/Executive Care Site, Hazardous Site Inventory (HSI) No. 10786, located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia
Winter Environmental Project No. 08096

Dear Mr. Metzger:

Enclosed for your review is the Voluntary Investigation and Remediation Plan Semiannual Status Report for the Fashion Care/Executive Care Site (Site), Hazardous Site Inventory No. 10786, located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia. There is one hard copy and two CD's of the report enclosed.

Please contact me with any questions or comments you may have.

Sincerely,

Leonard J. Diprima, Jr., P.G.
Senior Consultant

Enclosures: Voluntary Investigation and Remediation Plan Semiannual Status Report, June 2, 2012

3350 Green Pointe Parkway
Suite 200
Norcross, Georgia 30092
Main: 404.588.3300
Fax: 404.223.6251
www.winter-environmental.com
A division of
The Winter Construction Company

Voluntary Investigation and Remediation Plan
Semiannual Status Report
Voluntary Remediation Program

Fashion Care/Executive Care Site
HSI No. 10786
2211 Savoy Drive, Chamblee, DeKalb County, Georgia

Prepared For

John F. Rowan, Sr. Item IV Trust
PO Box 197, Carmel Valley, CA 93924

Prepared by

WINTER ENVIRONMENTAL
Project No. 08096

June 2, 2012

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Appendix A EPD Correspondence dated February 22, 2012
Appendix B Final Environmental Covenants

Section 1
PE/PG Certification

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

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

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

Leonard J. Diprima, Jr. / Georgia PG #949	June 2, 2012
Printed Name and GA PE/PG Number	Date

Signature and Stamp

Section 2
Introduction

Winter Environmental has prepared this Voluntary Investigation and Remediation Plan Semiannual Status Report (Status Report) in accordance with the Voluntary Remediation Program (VRP) for the Fashion Care/Executive Care Site (Site), Hazardous Site Inventory (HSI) No. 10786, located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, on behalf of the John F. Rowan, Sr. Item IV Trust (Trust). On July 9, 2010, a Voluntary Investigation and Remediation Plan Application (VIRP) was submitted to the Georgia Environmental Protection Division (EPD) Hazardous Sites Response (HSRA) Program for the Site. On December 2, 2010, the EPD approved the VIRP with comments and entered the Site into the VRP. This Status Report has been prepared to present the activities conducted from December 3, 2011 through June 2, 2012 for the Site in accordance with the VRP.

Section 3
Work Performed – December 3, 2011 through June 2, 2012

The activities currently identified to be performed at the Site under the VRP are outlined in the following documents:

- VIRP dated July 9, 2010;
- EPD VIRP approval letter dated December 2, 2010;
- EPD VIRP comment letter dated December 2, 2010; and the
- VRP Action Plan Technical Memorandum dated February 3, 2011 included as an attachment to the Financial Assurance submittal to the EPD dated March 2, 2011.

The activities that have been performed from December 3, 2011 through June 2, 2012 are as follows:

- The finalization of utility worker and construction worker Type 5 Risk Reduction Standards for each environmental covenant; for soil and groundwater for parcels 18-343-13-002 and 18-343-13-005, and for groundwater for parcel 18-333-02-023.
- Working with the EPD, the environmental covenants for parcels 18-343-13-002, 18-343-13-005 and 18-333-02-023 were finalized. These parcels are shown in Figure 2.
- The finalization of Johnson and Ettinger (J&E) Vapor Model for parcels 18-343-13-001, 18-343-13-005 and 18-333-02-023.

The activities above address the following comments received in the EPD correspondence dated February 22, 2012 (see Appendix A) regarding VRP documents submitted through December 2, 2011: 1, 5, 6, 7, 8 and 9. Winter Environmental provided a response to these comments in the correspondence dated March 29, 2012. Therefore, the activities addressed in the March 29, 2012 correspondence will not be addressed again in this document.

3.1 Environmental Covenants - Parcels 18-343-13-002, 18-343-13-005 and 18-333-02-023

The environmental covenants for parcels 18-343-13-002, 18-343-13-005 and 18-333-02-023 were completed through interaction with the EPD. The environmental covenants are in Appendix B and include all attachments, as well as the annual Site Use, Activity, and Monitoring Evaluation Form prepared specific to each parcel. The environmental covenants are anticipated to be executed during the next six month period beginning June 3, 2012.

Section 4
Work to be Performed

The additional activities anticipated to be performed at the Site through completion of the VIRP are outlined in the VIRP dated July 9, 2010, the EPD VIRP approval letter dated December 2, 2010, the EPD VIRP comment letter dated December 2, 2010 and the VRP Action Plan Technical Memorandum dated February 3, 2011 included as an attachment to the Financial Assurance submittal to the EPD dated March 2, 2011. More specifically, these tasks are presented on Figure 1. The tasks anticipated to be completed during the next six months for the period ending December 2, 2012, are Item Nos. 4, 7, 10, 11 and 18, presented below.

Anticipated Tasks, June, 3, 2012 through December 2, 2012:

- Final execution of the environmental covenants for parcels 18-343-13-002, 18-343-13-005 and 18-333-02-023.
- The collection of a full round of groundwater and surface water samples from the Site for use in modeling and to reestablish a groundwater concentration baseline.
- Preparation of a "Corrective Action Plan" to be implemented if surface water detections occur during future surface water sampling events.
- Completion of horizontal groundwater delineation beyond FMW-15 through the installation of two shallow monitoring wells.
- Following the evaluation of groundwater and surface water data collected in the previous step, a determination will be made regarding what monitoring wells, including the former deep well MW-23D, need to be replaced that were abandoned by the EPD UST Program to aid in groundwater monitoring and completion of the conceptual site model. The proposed replacement wells will be discussed with the EPD.
- Refining of the Conceptual Site Model (Figure 3):
  - Installation of borings across the impacted area to confirm presence/absence of a dry silt, shallow confining unit,
  - Installation of a deeper soil zone well next to FMW-4 to establish a vertical gradient if the dry silt, shallow confining unit is uniformly present,
  - Installation of piezometers across Nancy Creek to confirm creek is a gaining stream, and
  - Conduct a well pump test to recalculate horizontal hydraulic gradient for the Site and for input into future modeling.

- Vapor mitigation system installation for the Fashion Care building will also be completed in 2012.

The tasks required to complete the VIRP are presented on Figure 4, a revised estimated schedule. This schedule will be revised with the submittal of each Semiannual Status Report, as required.

Section 5
Professional Services Hours This Period

A total of approximately 199.75 professional service hours have been completed by Winter Environmental from December 3, 2012 through June 2, 2012. Of these total hours, 141 hours were utilized by the professional geologist overseeing the project. A table of the approximate breakdown of Winter Environmental's hours by month is presented in Table 1.

Tables

Table 1
Approximate Professional Service Hours
December 3, 2011 through June 2, 2012

Company	Month/Year	Project Manager / P.G. hours	Total Hours Worked
Winter Environmental	December 2011	34.75	35.75
Winter Environmental	January 2012	6.5	13.5
Winter Environmental	February 2012	23	27.5
Winter Environmental	March 2012	17	22.5
Winter Environmental	April 2012	26	36.5
Winter Environmental	May 2012	33.75	64
	Total Estimated Hours	**141.00**	**199.75**

Note: The above hours do not include subcontractor hours worked for Winter Environmental.

Figures

Figure 1
Flow Chart – Voluntary Investigation & Remediation Plan Tasks
(Completed tasks are noted.)

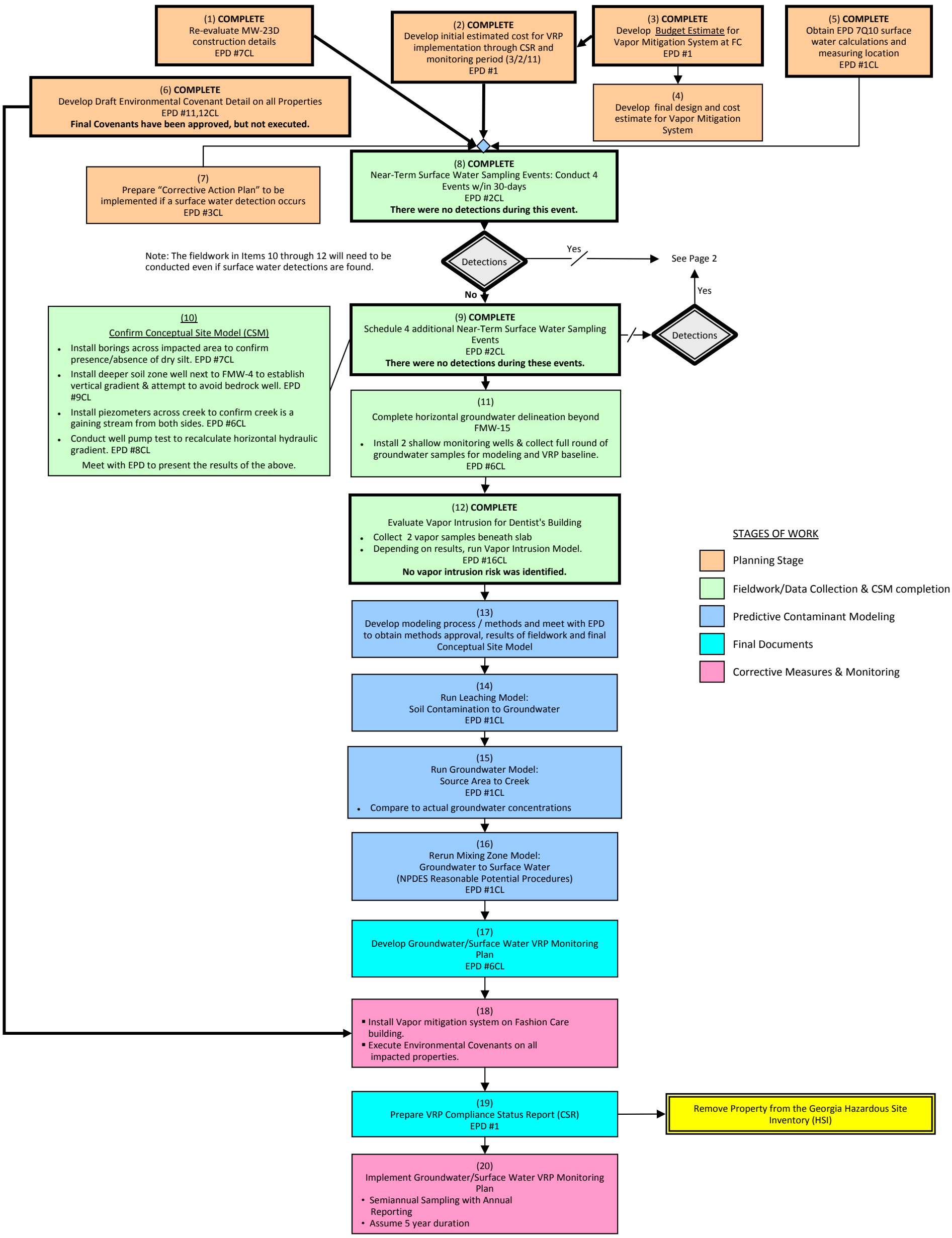
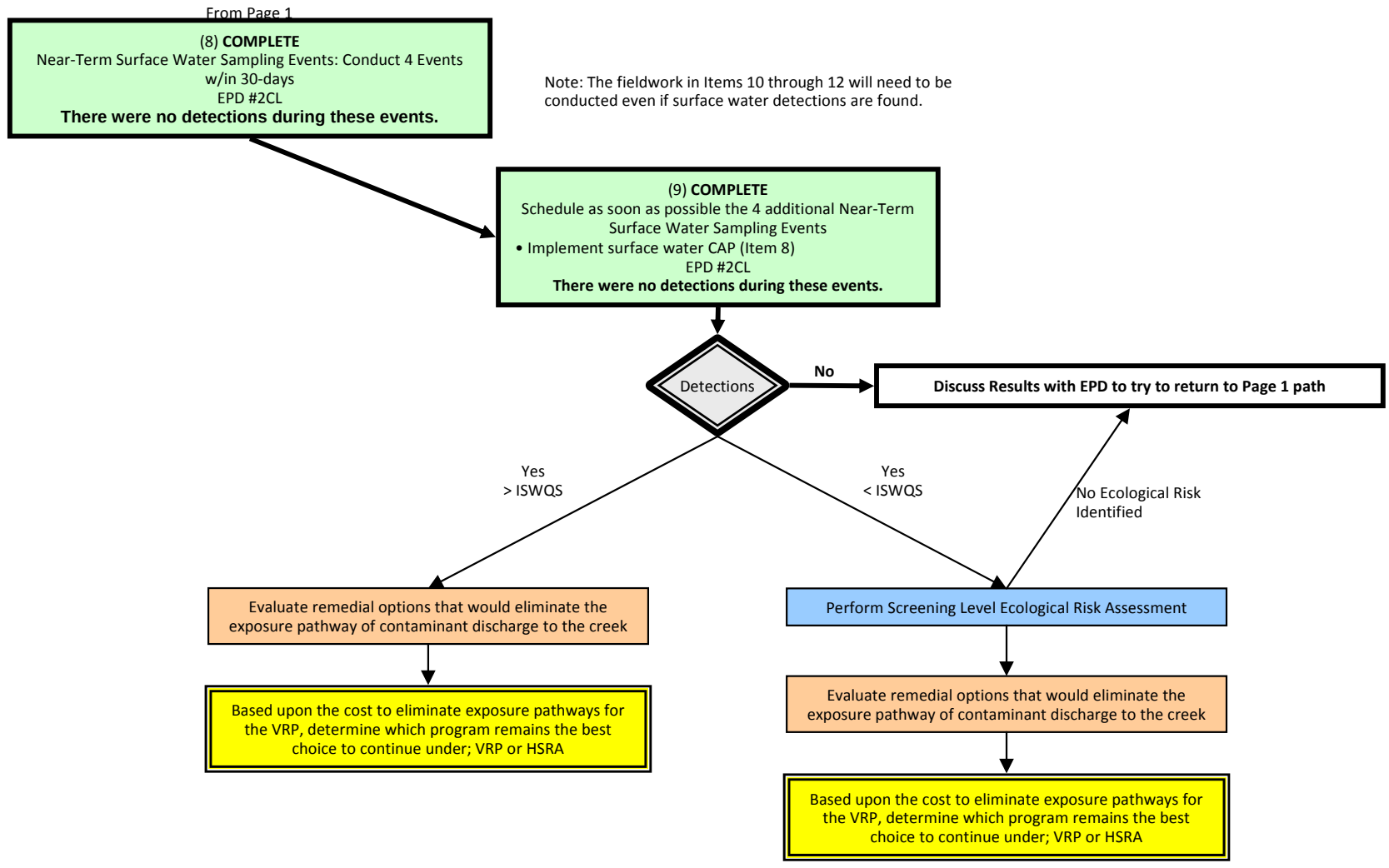


Figure 1 Contd.

Flow Chart – Voluntary Investigation & Remediation Plan Tasks



ISWQS = Georgia In-Stream Water Quality Standards

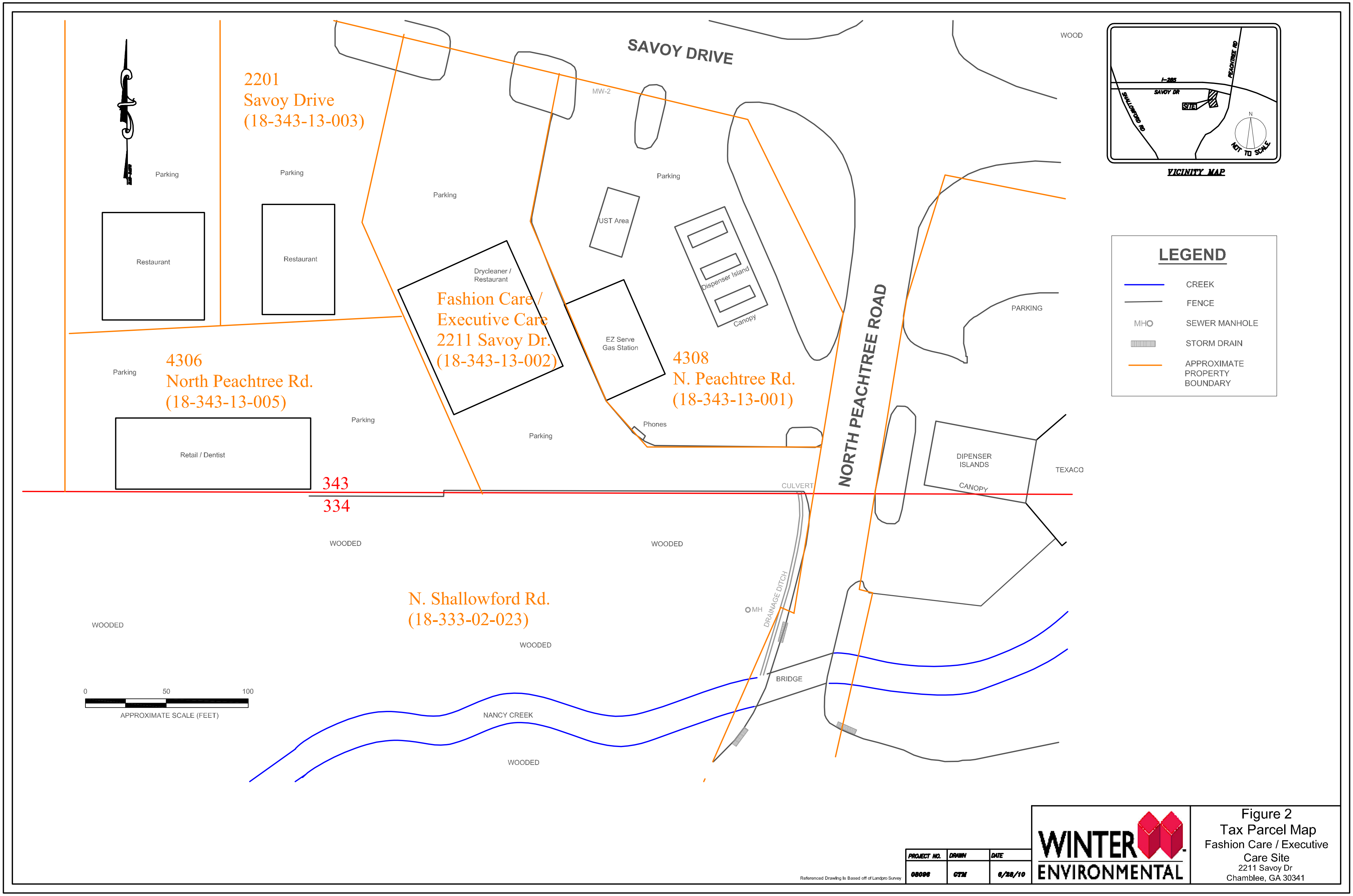
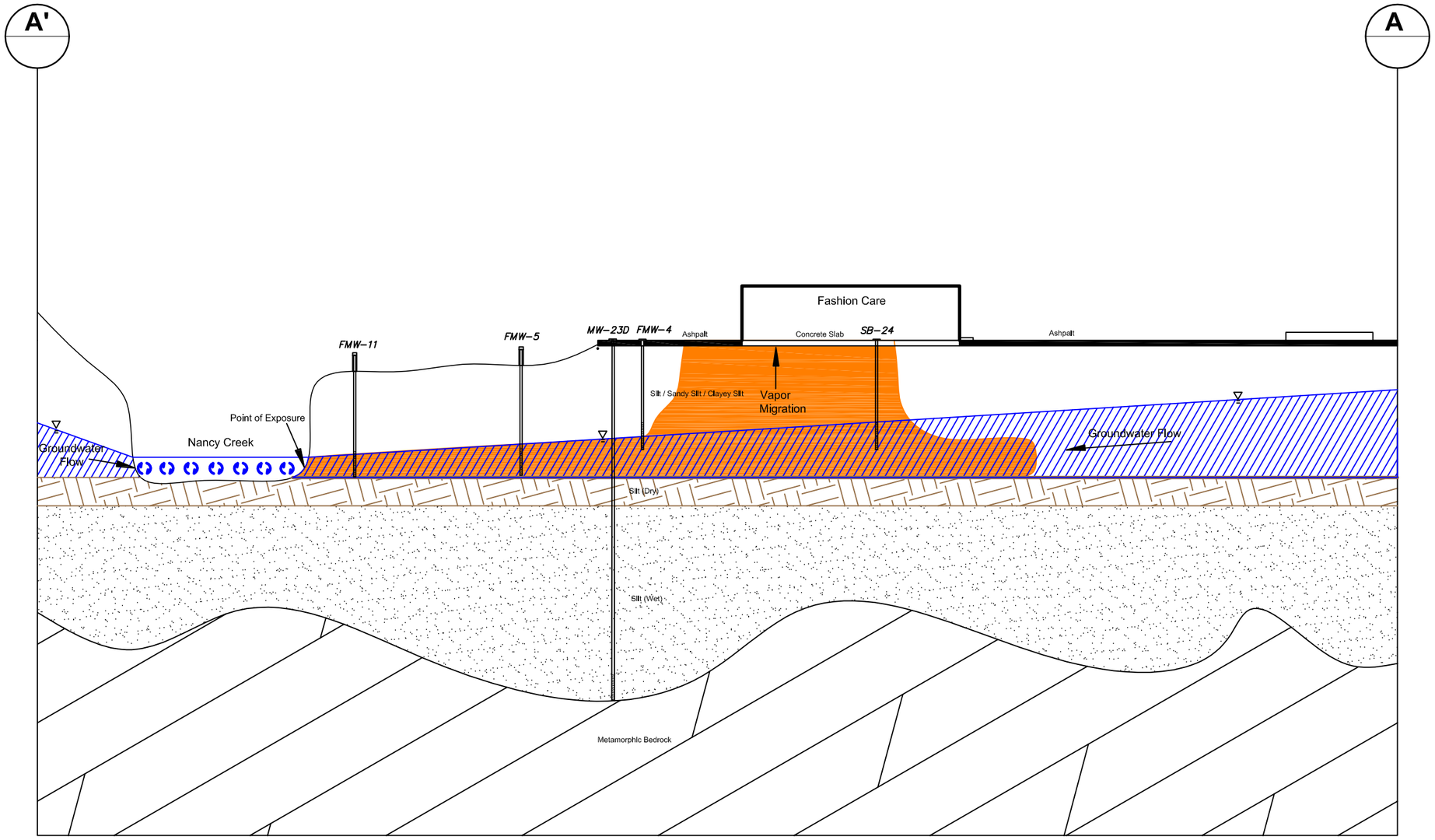
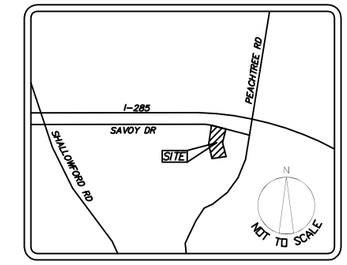


Figure 2
Tax Parcel Map
Fashion Care / Executive Care Site
2211 Savoy Dr
Chamblee, GA 30341



0' 30' 60' 90'

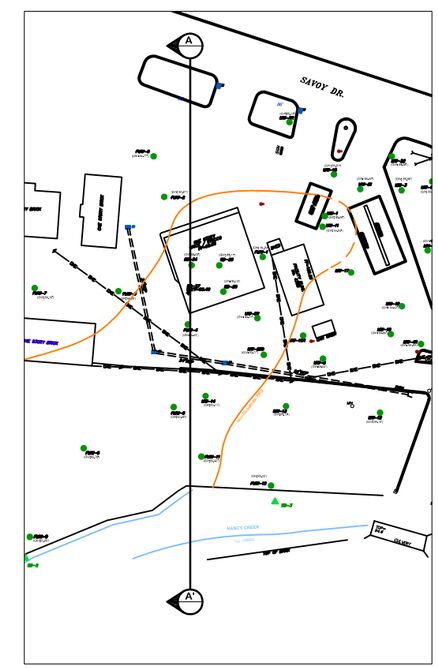
Approximate HORIZONTAL SCALE



VICINITY MAP

LEGEND

- Impacted Soil
- Impacted Groundwater
- Groundwater



Referenced Drawing is Based off of Landpro Survey

PROJECT NO.	DRAWN	DATE
08096	GTM	6/28/10

WINTER ENVIRONMENTAL

Figure 3

Conceptual Site Model

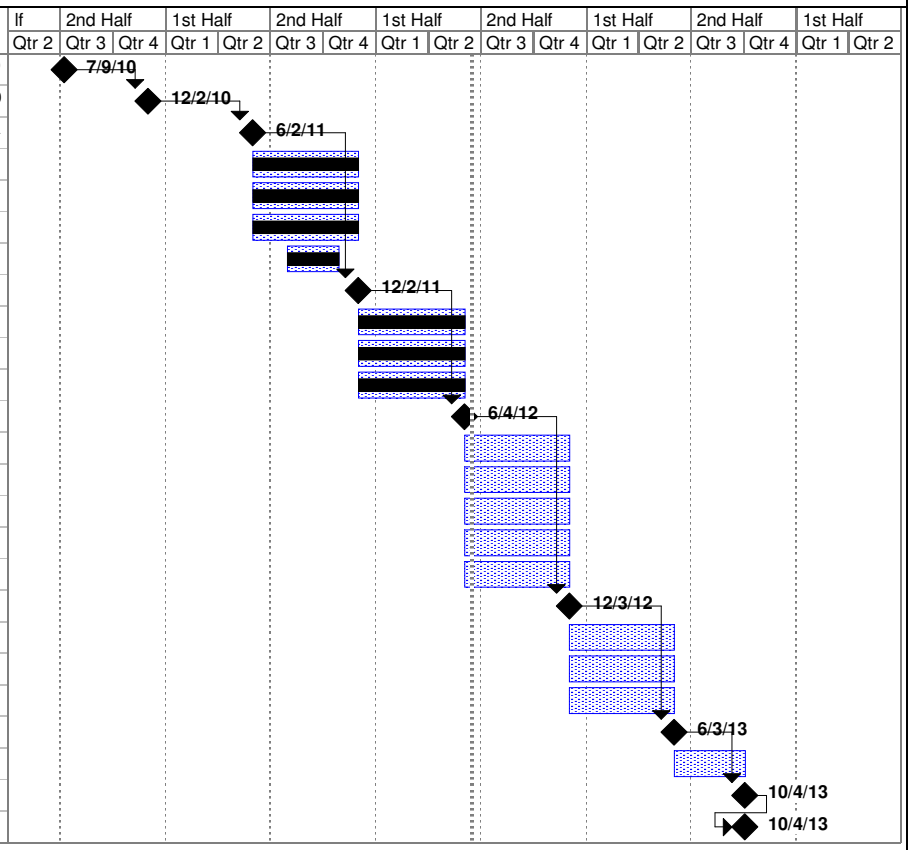
Fashion Care / Executive Care Site

2211 Savoy Dr

Chamblee, GA 30341

Figure 4
Estimated Voluntary Remediation Plan Schedule
Fashion Care/Executive Care Site, 2211 Savoy Drive, Chamblee, Georgia

ID	Task Name	Duration	Start	Finish
1	**VIRP Application Submittal**	0 days	Fri 7/9/10	Fri 7/9/10
2	**EPD Approval of VIRP**	0 days	Thu 12/2/10	Thu 12/2/10
3	**1st VIRP Status Report**	0 days	Thu 6/2/11	Thu 6/2/11
4	Vapor Sampling Evaluation/J&E Modeling	132 days	Thu 6/2/11	Fri 12/2/11
5	Revise Draft Ecs	132 days	Thu 6/2/11	Fri 12/2/11
6	Final Design for Vapor Mitigation System	132 days	Thu 6/2/11	Fri 12/2/11
7	Conduct 8 Surface Water Sampling Events	65 days	Mon 8/1/11	Sat 10/29/11
8	**2nd VIRP Status Report**	0 days	Fri 12/2/11	Fri 12/2/11
9	Finalize J&E Vapor Models	132 days	Fri 12/2/11	Mon 6/4/12
10	Finalize Utility & Construction Worker Standards	132 days	Fri 12/2/11	Mon 6/4/12
11	Finalize Environmental Covenants	132 days	Fri 12/2/11	Mon 6/4/12
12	**3rd VIRP Status Report**	0 days	Mon 6/4/12	Mon 6/4/12
13	Execute Environmental Covenants	131 days	Mon 6/4/12	Mon 12/3/12
14	Prepare Surface Water CAP	131 days	Mon 6/4/12	Mon 12/3/12
15	Complete Horizontal Groundwater Delineation	131 days	Mon 6/4/12	Mon 12/3/12
16	Fieldwork to Confirm CSM	131 days	Mon 6/4/12	Mon 12/3/12
17	Install Vapor Mitigation System - Fashion Care Building	131 days	Mon 6/4/12	Mon 12/3/12
18	**4th VIRP Status Report**	0 days	Mon 12/3/12	Mon 12/3/12
19	Complete Vertical Groundwater Delineation	131 days	Mon 12/3/12	Mon 6/3/13
20	Site Fate & Transport modeling	131 days	Mon 12/3/12	Mon 6/3/13
21	Prepare VRP Groundwater & Surface Water Monitoring Plan	131 days	Mon 12/3/12	Mon 6/3/13
22	**5th VIRP Status Report**	0 days	Mon 6/3/13	Mon 6/3/13
23	Prepare VRP CSR	90 days	Mon 6/3/13	Fri 10/4/13
24	**Submit VRP CSR**	0 days	Fri 10/4/13	Fri 10/4/13
25	**Implement Groundwater & Surface Water Monitoring Plan**	0 days	Fri 10/4/13	Fri 10/4/13



Task		Milestone		External Tasks	
Split		Summary		External Milestone	
Progress		Project Summary		Deadline	

Appendix A
EPD Correspondence dated February 22, 2012

Georgia Department of Natural Resources

2 Martin Luther King, Jr. Dr. S.E., Suite 1462 East, Atlanta, Georgia 30334
Mark Williams, Commissioner
Environmental Protection Division
Judson H. Turner, Director
Land Protection Branch
Mark Smith, Branch Chief

Reply To:
Response and Remediation Program
2 Martin Luther King, Jr. Drive, S.E.
Suite 1462, East Tower
Atlanta, Georgia 30334-9000
Office 404-657-8600 Fax 404-657-0807

February 22, 2012

COPY

VIA E-MAIL AND REGULAR MAIL

John F. Rowan, Sr. Item IV Trust
c/o Catherine Norris
P.O. Box 197
Carmel Valley, California 93924

Re: Voluntary Remediation Program Semi-Annual Status Report, December 2, 2011
Voluntary Remediation Program Semi-Annual Status Report, June 2, 2011
Voluntary Remediation Program Supplemental Report, June 29, 2011
Fashion Care/Executive Care Site, HSI No. 10786
2211 Savoy Drive, Chamblee, Dekalb County, Georgia
Tax Parcel ID Nos. 18-343-13-002, 18-343-13-005, 18-343-13-001, & 18-333-02-023

Dear Ms. Norris:

The Georgia Environmental Protection Division (EPD) has reviewed the above-referenced reports submitted by Winter Environmental in accordance with the Voluntary Remediation Program Act (the Act) for the above-referenced properties. EPD offers the following comments which should be addressed pursuant to the Act:

1. EPD provided comments on the draft Uniform Environmental Covenants (UECs) via email on February 10, 2012. Although we believe these comments are complete, they may change as more information is gained regarding the site and the Act. The comments also assumed that the vapor intrusion evaluations are correct and that current concentrations will not be exceeded in the future. The comments below and the results of future modeling may initiate additional changes to the UECs.

2. The monitoring wells installed during the investigation and remediation of the former EZ Serve site (UST Facility ID No. 09000341) have been abandoned as described in the August 30, 2011 Completion Report for the facility. Many of those wells served as delineation wells up/side-gradient of the Fashion Care site, and do not need to be replaced. However, certain wells, such as MW-23D, provided important characterization and monitoring of the plume and will be necessary for model verification. In the next progress report, please include a schedule for replacement of MW-23D (provide a figure showing new location if appropriate) and any other wells needed to verify the model.

3. In future summaries of professional service hours billed, please separate the hours billed by the Professional Engineer/Geologist overseeing the project from support staff hours.

Vapor Intrusion Analysis

4. Section 3.4 of the December 2011 report notes that the vapor mitigation system for Parcel 18-343-13-002 has been designed and will be installed in 2012. The progress report that contains the as-built should also explain the rationale behind the design including any

testing, discuss the building parameters that will allow this design to function properly, and demonstrate that the restaurant space is also protected.

5. The toxicity and chemical-specific parameter values were not updated prior to running the Johnson & Ettinger model for some of the volatile substances in soil gas. These values should be consistent with the values provided in the most current version of the Regional Screening Levels Table (RSLT) available prior to submittal of the report [e.g., tetrachloroethylene (RfC), trichloroethylene (RfC and IUR), acetone (RfC), chloroform (RfC), etc.]. Parcel 18-222-02-023 does not require re-analysis since the results already recommend vapor intrusion remedial measures.

6. The summary table of parameters used in the vapor intrusion analysis contains an inadequate exposure frequency (EF) value of 30 days/yr. However, the models were run using an appropriate EF of 350 days/yr. Additionally, the input parameter for temperature designated in the user guidance for the southeastern region of the United States is 19.4°C. This is the recommended input value based on the average temperature of shallow groundwater for the southeastern region. This does not significantly impact the model results, but should be revised if the model is rerun.

Type 5 RRS Calculations

The Type 5 risk reduction standards (RRS) presented in Table 1 of Appendix D of the December 2011 report are hereby approved with the following revisions:

7. The toxicity values listed in Appendix D for cis-1,2-dichloroethylene (cis-1,2-DCE) and trichloroethylene (TCE) have been updated in the most current version of the RSLT. The toxicity values for tetrachloroethene (PCE) were updated in IRIS on February 10, 2012. The updated values are provided below for your convenience.

Regulated Substance	**RfD_o (mg/kg-d)**	**RfD_i (mg/kg-d)**	**SF_o $(mg/kg\text{-}d)^{-1}$**	**SF_i $(mg/kg\text{-}d)^{-1}$**
cis-1,2-DCE	2.0E-03 (IRIS)	NA	NA	NA
TCE	5.0E-04 (IRIS)	5.7E-04 (IRIS)	4.6E-02 (IRIS)	1.4E-02 (IRIS)
PCE	6.0E-03 (IRIS)	1.1E-02 (IRIS)	2.1E-03 (IRIS)	9.1E-04 (IRIS)

NA – No toxicity value available in RSLT

The resulting Type 5 RRS for the construction worker and utility worker are as follows:

Regulated Substance	**Construction Worker - Soil (mg/kg)**	**Utility Worker - Soil (mg/kg)**	**Construction Worker – Ground water (mg/L)**	**Utility Worker – Groundwater (mg/L)**
cis-1,2-DCE	619	4420	2.6	18
TCE	6.8	49	0.006	0.041
PCE	142	1015	0.12	0.82

8. The Type 5 soil RRS for 1,1-dichloroethene are incorrect even though the method and exposure assumptions used were correct. EPD derived a Type 5 soil RRS of 253 and 1,805 mg/kg for the construction worker and utility worker, respectively.

9. Minor changes have been made to the chemical-specific parameters for the following regulated substances. It should be noted that this does not impact any of the calculated volatilization factors in Appendix D, Table 4.

   - 1,1-Dichloroethene: Dia – 0.0863 cm^2/s; Henry's Law Constant– 0.0261 atm-m^3/mol
   - cis-1,2-Dichloroethene: Dia – 0.0884 cm^2/s; Koc – 39.6 L/kg

The John F. Rowan, Sr. Item IV Trust (Trust) must address these comments to EPD's satisfaction in order to demonstrate compliance with the provisions, purposes, standards and policies of the Act. EPD may, at its sole discretion, review and comment on documents submitted by the Trust. However, failure of EPD to respond to a submittal within any timeframe does not relieve the Trust from complying with the provisions, purposes, standards and policies of the Act.

Please address the above comments in subsequent semi-annual progress reports. EPD anticipates receipt of the next report by June 2, 2012. If you have any questions, please contact Jason Metzger at (404) 463-0530.

Sincerely,

David Brownlee
Acting Program Manager
Response and Remediation Program

c: Leonard Diprima, Jr., P.G., Winter Environmental
✓H.A. Rowan, Southern Automatic Company
✓Marvin Hewatt, Georgia-Alabama Commercial Investments, LLC
✓ASL Limited Partnership

File: HSI 10786
S:\RDRIVE\JMetzger\Fashion Care\FC VRP progress rpt1 letter.doc

Appendix B
Final Environmental Covenants

- Parcel 18-343-13-002; 2211 Savoy Drive, Chamblee, Georgia; John F. Rowan, Sr. Item IV Trust.
- Parcel 18-333-02-023; no street address; Asl Limited Partnership.
- Parcel 18-343-13-005, 4306 North Peachtree Road, Chamblee, Georgia, Southern Automatic Company

Parcel 18-343-13-002; 2211 Savoy Drive, Chamblee, Georgia; John F. Rowan, Sr. Item IV Trust

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE
Suite 1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor:
The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
PO Box 197
Carmel Valley, CA 93924

Grantee/Holder:
The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
PO Box 197
Carmel Valley, CA 93924

Grantee/Entity with express power to enforce:
State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1152 East Tower
Atlanta, GA 30334

Parties with interest in the Property:

- None at time of execution

Property:

The property subject to this Environmental Covenant is the Fashion Care/Executive Care Tract (hereinafter "Property"), located at 2211 Savoy Drive in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on November 7, 2003 from Business Associates, Inc., a Georgia Corporation to John F. Rowan recorded in Deed Book 15562, Page 660, DeKalb County Records. The area is located in Land Lot 343 of the 18th District of DeKalb County, Georgia. The property consists of approximately 0.61 acres of property developed with a single, one-story building that contains a drycleaner on the west side and a restaurant on the east side. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-343-13-002 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document[s]:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.
- Point of Compliance Monitoring Plan (as referenced in Activity 4)

These documents are available at the following locations:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Fashion Care Cleaners
2211 Savoy Drive
Chamblee, GA 30341

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act and the Georgia VRP.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by the Trust of John F. Rowan, Sr. (hereinafter "Trust"), its successors and assigns, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the Property. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene, vinyl chloride and 1,1-dichloroethene have been detected in groundwater beneath the Property. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene and vinyl chloride have been detected in soil beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The institutional controls consist of: 1) no use of groundwater on the Property, and 2) utility and construction worker protection requirements regarding impacted soil in Area B on Figure 1, and groundwater in Area D in Figure 2 of the Property. Engineering controls required for the Property are: 1) the maintenance of existing concrete and asphalt covering soil impacted with regulated chemicals in Areas A and B on Figure 1, and 2) the implementation and maintenance of vapor mitigation measures beneath any existing enclosed structures on the Property and any enclosed structures constructed on the Property within Area A on Figure 1 and Areas C and D on Figure 2. These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Grantor, the Trust, hereby binds Grantor, its successors and assigns to the activity and use restriction(s) for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the <name of Holder> and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq*., and the rules promulgated thereunder. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from exercising any authority under applicable law.

The Trust makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of the EPD, the Trust and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, the Trust or its successors and assigns, the Trust or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, or to apply for building permit(s). The EPD must be notified within 3 business days following any subsurface site work in the environmentally impacted areas shown on Figures 1 and 2. These notifications shall include a certification that the requirements of this covenant were adhered to.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant. The notice shall explicitly state the requirements of Activities 5-8 to ensure worker protection and proper handling of impacted media.

4. Periodic Reporting. Annually, beginning no later than 12 months following the effective date of this Environmental Covenant, the Owner shall submit to EPD a completed Site Use, Activity and Monitoring Evaluation Form (attached). In addition, an Annual Point of Compliance Monitoring Report. as specified in the EPD approved Point of Compliance Monitoring Plan, must be submitted to the EPD until point of compliance monitoring is deemed unnecessary by the EPD in accordance with the specifications set forth in the Point of Compliance Monitoring Plan.

5. Activity and Use Limitation(s). The Property shall be used only for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any residential use of the Property shall be prohibited unless EPD concurs that soil and groundwater are remediated to residential RRS. A vapor mitigation system or barrier shall be installed and maintained on existing structures and on any additional enclosed structures

constructed until the HSRA regulated substances in soil and groundwater at the Property reach HSRA RRS, or vapor modeling of groundwater and soil contamination in the respective areas defined on Figure 1 and 2 indicate that vapor mitigation is not required for enclosed structures, and EPD concurs with the vapor modeling results.

6. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless HSRA regulated substances are treated to below HSRA residential RRS for groundwater.

   Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

7. Soil Limitation. The concrete and asphalt covering Areas A and B in Figure 1, having regulated substances in soil at concentrations greater than HSRA non-residential RRS, must be maintained and shall only be breached in accordance with the restrictions herein. Should intrusive activities within this area be required, the extracted, impacted soil should be managed in accordance with all applicable local, state and federal rules and regulations governing the management of such material. Removed soil in this area should not be placed back into the excavation, but be properly characterized for disposal in accordance with 40 CFR Part 261(specifically 40 CFR Parts 261.20-24, regarding characteristic waste) and transported and disposed of at an appropriate disposal facility. The excavation should be backfilled with clean fill material and recapped with an impervious surface. Recapping of the area of excavation would not be necessary if all the impacted soil in the excavation area is removed to below applicable HSRA residential RRS to the water table for the regulated chemicals of concern noted in the "Description of Contamination and Corrective Action" above.

8. Utility Worker & Construction Worker Protection. HSRA regulated chemicals have been identified in soil and groundwater above calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and/or utility workers. The following regulated chemicals have been identified in soil above calculated risk-based threshold levels for the protection of construction workers and/or utility workers as indicated. The area with soil concentrations above these levels is identified as Area B on Figure 1, attached.

Soil - HSRA Type 5 RRS for the Protection of Construction Workers and/or Utility Workers			
HSRA regulated chemical	Construction Worker Threshold Concentration (mg/kg)	Utility Worker Threshold Concentration (mg/kg)	Comments
PCE	142	1015	

The following regulated chemicals have been identified in groundwater above calculated risk-based threshold levels for the protection of construction workers and/or utility workers as indicated. The area with groundwater concentrations above Type 5 RRS is identified as Area D on attached Figure 2. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade.

Groundwater - HSRA Type 5 RRS for the Protection of Construction Workers and/or Utility Workers			
HSRA regulated chemical	Construction Worker Threshold Concentration (mg/L)	Utility Worker Threshold Concentration (mg/L)	Comments
PCE	0.12	0.82	
Trichloroethene	0.006	0.041	
Cis-1,2-dichloroethene	2.6	18.0	This chemical was identified above the construction worker threshold only.
Trans-1,1-dichloroethene	0.174	1.24	
Vinyl chloride	0.27	0.097	

Prior to conducting construction or subsurface utility work that may result in exposure to soil or groundwater in the designated Type 5 areas, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted soil or groundwater performed in the execution of work should be done in accordance with Items 7 and 6 above, respectively.

The exposure duration assumed for a utility worker was 35 days per year, for a period of 25 years. The exposure duration assumed for a construction worker was 250 days a year, for a period of no more than one year. Therefore, utility worker exposure in the areas that meet Type 5 RRS, but exceed Type 1-4 RRS, Area A in Figure 1 and Area C in Figure 2; should not exceed 35 days per year for 25 years, and for construction workers should not to exceed 250 days in a year. If on site works in the areas designated above are to be exceeded, then the procedures outlined above must be followed to eliminate the work exposure pathway.

9. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

10. Right of Access. In addition to any rights already possessed by EPD and/or the Trust, the Owner shall allow authorized representatives of EPD and/or the Trust the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

11. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) the Trust, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

12. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

13. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

14. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 11 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

- Georgia Environmental Protection Division, Branch Chief, Land Protection Branch, 2 Martin Luther King Jr. Drive SE, Suite 1154 East Tower, Atlanta, GA 30334.

- The Trust of John F. Rowan, Sr., Mrs. Catherine Norris, Representative, P.O. Box 197, Carmel, CA 93924

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

The Trust of John F. Rowan, Sr.

_____

[Name of Signatory]
[Title]

Dated: _____

<NAME OF HOLDER>

_____

[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

_____

[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF _____
COUNTY OF _____

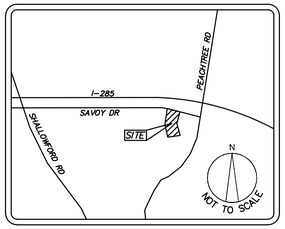
On this _ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

Exhibit A
Legal Description

All that tract or parcel of land lying and being in Land Lot 343 of the 18th District of DeKalb County, Georgia and being more particularly described as follows: Beginning at an iron pin on the westerly line of the right of way of North Peachtree Road (which line is 35 feet westerly from the center line of said road) and on the line dividing Land Lots 343 and 334; and running thence along said Land Lot line South, 89 degrees 53 minutes West, 213 feet to an iron pin; thence North 22 degrees 15 minutes West, 158.85 feet to an iron pin; thence North 15 degrees 11 minutes East, 120 feet to an iron pin on the southerly line of the right of way of I-285; thence South 74 degrees 49 minutes East along the southerly right of way of I-285, 100 feet to an iron pin; thence South 15 degrees 11 minutes West, 990 feet to an iron pin; thence South 23 degrees 25 minutes 30 seconds East, 111.6 feet to an iron pin; thence South 60 degrees 44 minutes East, 60 feet to an iron pin; thence North 89 degrees 53 minutes East, 75 feet to an iron pin on the westerly right of way of North Peachtree Road; thence along said right of way South 9 degrees 17 minutes 30 seconds West, 18 feet to the POINT OF BEGINNING. According to a Plat by Earnest L. Boggus dated June 14, 1968, revised April 10, 1969, revised May 8, 1970. Subject to covenants, easements and restrictions of record and to utility easements.

This is the same property conveyed by Business Associates, Inc. to CJH Capital Corporation by Warranty Deed dated September 21, 1987, recorded in Deed Book 5954, page 189, Clerk's Office, DeKalb County Superior Court.



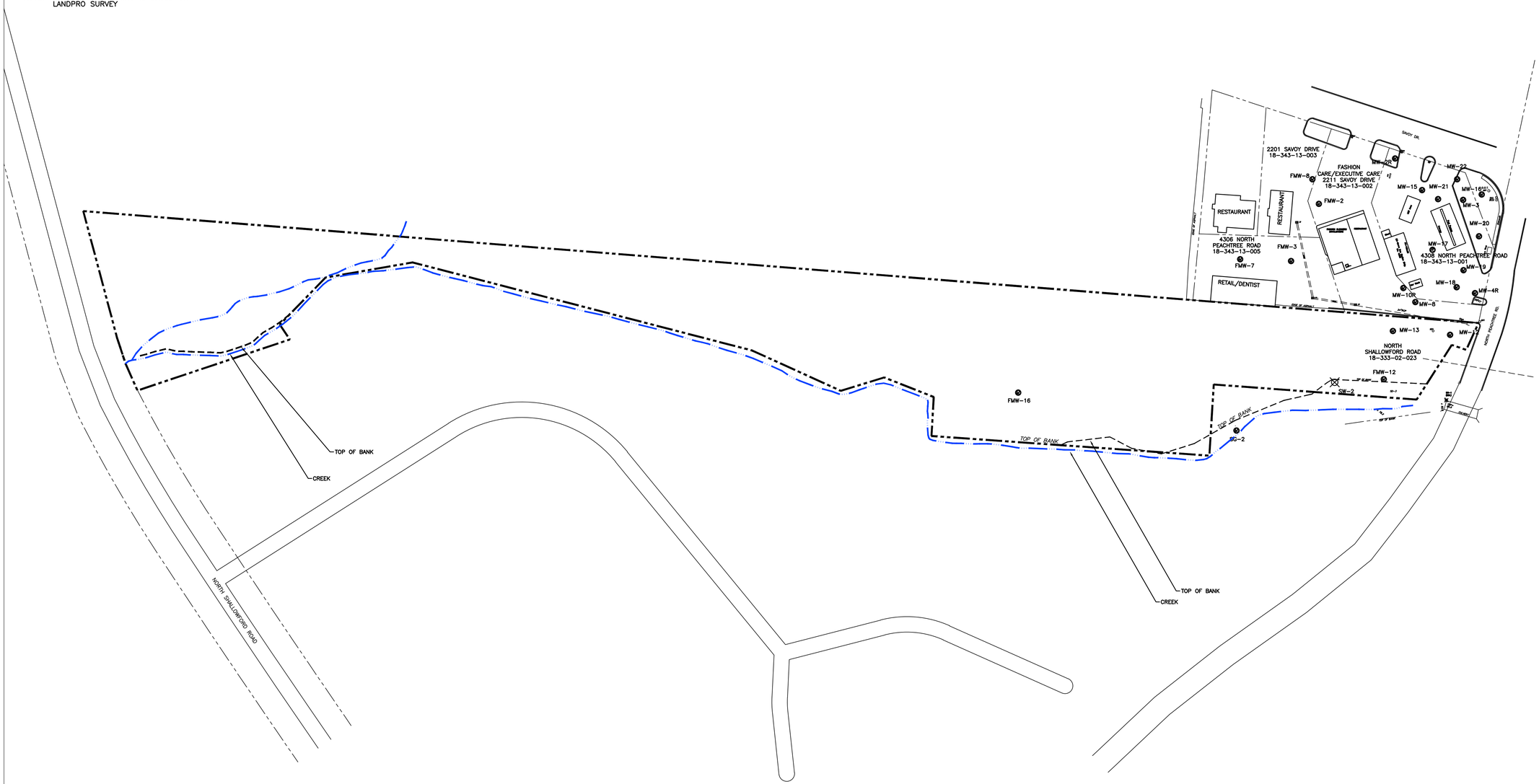
VICINITY MAP

LEGEND

APPROXIMATE PROPERTY LINE

ASL LIMITED PARTNERSHIP PROPERTY

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

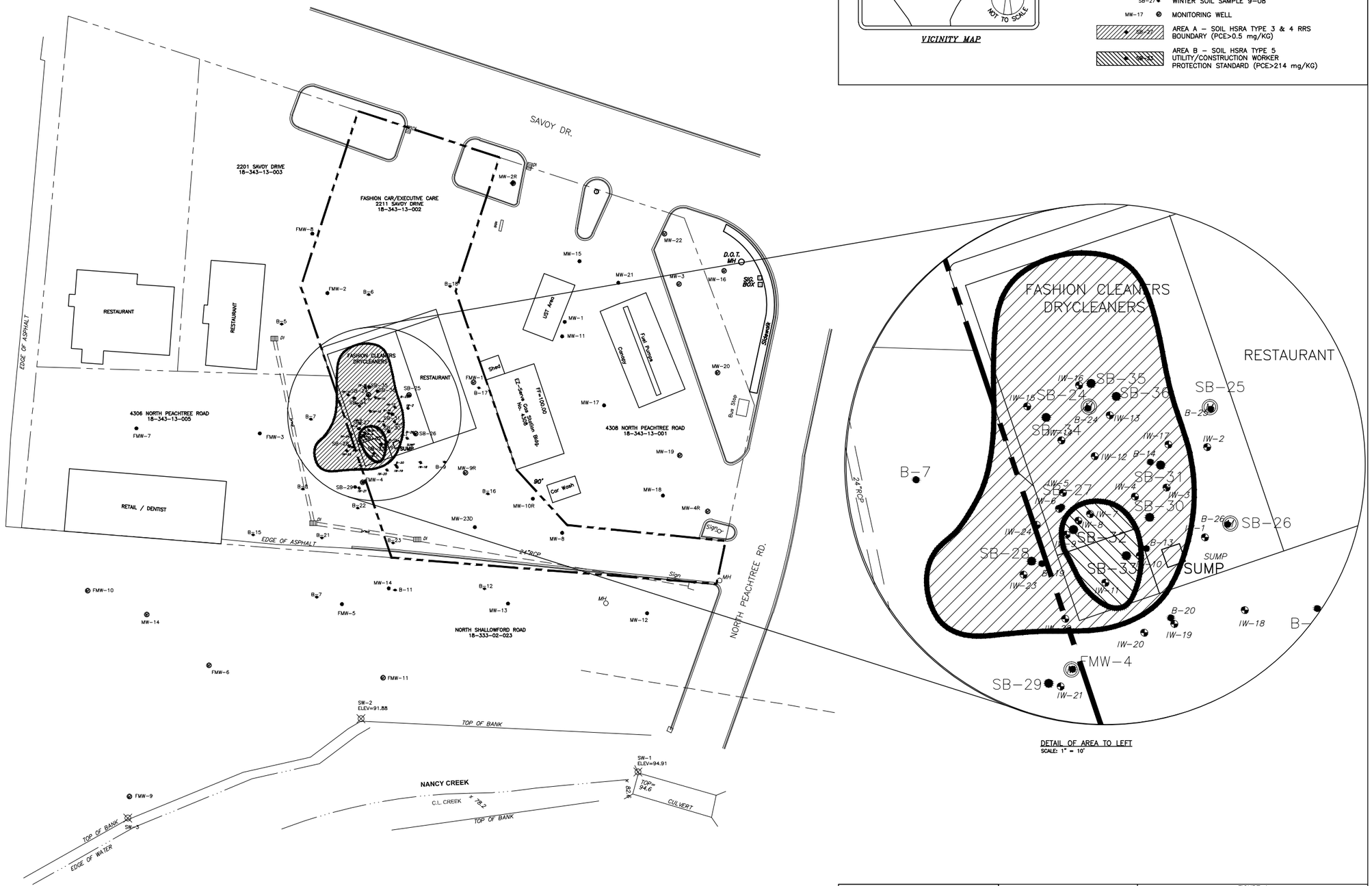


Drawn By: GHA	Date: 8-23-11
Checked by: GTM	Project No. 08096

WINTER ENVIRONMENTAL

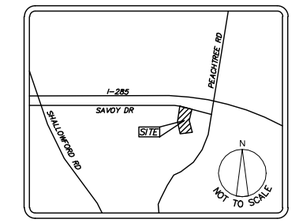
EXHIBIT B
AREA MAP

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341



NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

DETAIL OF AREA TO LEFT
SCALE: 1" = 10'



VICINITY MAP

LEGEND

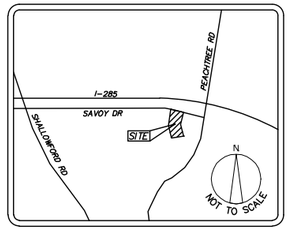
- APPROXIMATE PROPERTY LINE
- ENVIRONMENTAL COVENANT SUBJECT PARCEL
- IW-19 INJECTION WELL
- FMW-2 WINTER CONFIRMATION SOIL SAMPLE 5-09
- B-18 EPIC SOIL SAMPLE 8-06, 4-07
- SB-27 WINTER SOIL SAMPLE 9-08
- MW-17 MONITORING WELL
- AREA A – SOIL HSRA TYPE 3 & 4 RRS BOUNDARY (PCE>0.5 mg/KG)
- AREA B – SOIL HSRA TYPE 5 UTILITY/CONSTRUCTION WORKER PROTECTION STANDARD (PCE>214 mg/KG)

Drawn By: GHA	Date: 5-11-12
Checked by: GTM	Project No. 08096

WINTER ENVIRONMENTAL

FIGURE 1
ENVIRONMENTAL COVENANT
SOIL HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 343 13 002

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341



VICINITY MAP

LEGEND

- APPROXIMATE PROPERTY LINE
- ENVIRONMENTAL COVENANT SUBJECT PARCEL
- FMW-1 (0.0056) — AREA C – HSRA TYPE 1, 3, & 4 RRS BOUNDARY OF CONSTITUENTS OF INTEREST
- SB-26 (4.8) — AREA D – HSRA TYPE 5 RRS BOUNDARY OF CONSTITUENTS OF INTEREST*
- SD-1 ▲ SEDIMENT SAMPLE LOCATION

* ALL WELLS HAD A COMPOUND >TYPE 5 FOR BOTH CONSTRUCTION & UTILITY WORKER NUMBERS

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

0 30 60
SCALE IN FEET

N

SAVOY DR.

2201 SAVOY DRIVE
18-343-13-003

FASHION CAR/EXECUTIVE CARE
2211 SAVOY DRIVE
18-343-13-002

RESTAURANT

RESTAURANT

4308 NORTH PEACHTREE ROAD
18-343-13-005

RETAIL / DENTIST

FASHION CLEANERS
DRYCLEANERS

RESTAURANT

4308 NORTH PEACHTREE ROAD
18-343-13-001

NORTH SHALLOWFORD ROAD
18-333-02-023

NORTH PEACHTREE RD.

NANCY CREEK

C.L. CREEK

CULVERT

EDGE OF ASPHALT

TOP OF BANK

EDGE OF WATER

24"RCP

Car Wash

Canopy

Fuel Pumps

Bus Stop

Sidewalk

D.O.T. MH

SIG. BOX

Sign

MH

SD-1

SEDIMENT SAMPLE COLLECTED DOWN STREAM IN FROM OF CULVERT UNDER SHALLOWFORD ROAD

Drawn By: GHA	Date: 5-11-12
Checked by: GTM	Project No: 08096

WINTER ENVIRONMENTAL

FIGURE 2
ENVIRONMENTAL COVENANT
GROUNDWATER HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 343 13 002

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

SITE USE, ACTIVITY, AND MONITORING EVALUATION FORM

Fashion Care/Executive Care Site, Parcel No. 18-343-13-002,
2211 Savoy Drive, Chamblee, DeKalb County, Georgia

TYPE	No.	CRITERIA RESPONSE	YES	NO
Property Use	1	Has the property use changed, has construction work been implemented on the property, or have building permits been applied for?		
	1a	If yes to 1, was EPD notified at least 30 days in advance?		
	1b	If no to 1a, attach a written explanation.		
Exposure	2	Has subsurface site work been conducted in the areas of the property where soil and/or groundwater concentrations exceed residential cleanup standards (UEC - Figure 1 - Areas A and B and Figure 2 - Areas C and D)?		
	2a	If yes to 2, was EPD notified within 3 business days following the site work?		
	2b	Has groundwater extraction or use for non-remedial purposes occurred?		
	2c	If no to 2a or yes to 2b, attach a written explanation, including a description regarding whether the requirements of the uniform environmental covenant (UEC) were adhered to.		
Engineering Controls	3	Is the concrete/asphalt cover intact and of sufficient quality to prevent exposure to soil in the area of the property where soil concentrations exceed residential cleanup standards (UEC – Figure 1 - Areas A and B)?		
	3a	If no to 3, are corrective measures being taken? Please attach a written explanation.		
	3b	Have enclosed structures been installed on the property or existing structures modified in such a way as to change potential vapor intrusion assumptions?		
	3c	Is the vapor mitigation system on the existing structure operating consistently and being maintained?		
	3d	• If yes to 3b, have vapor intrusion mitigation measures been implemented? Please attach a written explanation. • If no to 3c, please attach a written explanation.		
Permanent Markers	4	Are the permanent markers that delineate the restricted areas in place and legible?		
	4a	If no to 4, attach a written explanation.		
Property Instruments	5	Do all leases or other property instruments for the site have the applicable UEC and deed notice language inserted into them.		
	5a	If no to 5, attach a written explanation.		
Inspection	6	Date of inspection:		
	6a	Name of inspector:		
	6b	Photographs showing current land use, engineering controls, and permanent markers (attached)		

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_____ _____

NAME (Please type or print) TITLE

_____ _____

SIGNATURE DATE

Parcel 18-333-02-023; no street address; Asl Limited Partnership

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE
Suite 1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor: ASL Limited Partnership
1515 S. Federal Hwy. 300
Boca Raton, FL 33432-7451

Grantee/Holder: The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
PO Box 197
Carmel Valley, Ca 93924

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1152 East Tower
Atlanta, GA 30334

Parties with interest in the Property:

- DeKalb County Watershed Department, 1580 Roadhaven Drive Stone Mountain, GA 30083; Sanitary Sewer Easement

Property:

The property subject to this Environmental Covenant is the ASL Limited Partnership Tract (hereinafter "Property"), located on the 4200 – 4300 Block of North Shallowford Road, in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on October 12, 1982 from ARA Associates – Shangri-La, Ltd., a New Jersey limited partnership to ASL Limited Partnership recorded in Deed Book 4673, Page 272, DeKalb County Records. The area is located in Land Lot 334 of the 18th District of DeKalb County, Georgia. The property consists of approximately 10.45 acres of undeveloped property. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-333-02-023 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.
- Vapor Intrusion Model contained in the Voluntary Investigation and Remediation Plan Semiannual Status Report, Voluntary Remediation Program, Fashion Care/Executive Care, HSI No. 10786, 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, dated December 2, 2011.

These documents are available at the following location:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act and the Georgia VRP.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by ASL Limited Partnership, its successors and assigns, The Trust of John F. Rowan, Sr. (hereinafter "Trust"), and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the adjacent property; 2211 Savoy Drive, Chamblee Georgia. PCE, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene and vinyl chloride have been detected in groundwater beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated there under (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The institutional controls consist of no use of groundwater on the Property, and utility and construction worker protection requirements regarding impacted groundwater in Area D as shown on Figure 1 of the Property. Engineering controls required for the Property are the implementation and maintenance of vapor mitigation measures beneath any existing enclosed structures and any enclosed structures constructed within Area C and Area D as shown on Figure 1, unless updated vapor modeling approved by the EPD indicates vapor mitigation is unnecessary. These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Grantor, ASL Limited Partnership (hereinafter "ASL"), hereby binds Grantor, its successors and assigns to the activity and use restrictions for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the Trust and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq*., and the rules

promulgated there under. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from exercising any authority under applicable law.

ASL makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of Trust EPD, ASL and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, Trust r its successors and assigns, ASL or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, or to apply for building permit(s). The EPD must be notified within 3 business days of any subsurface site work in the environmentally impacted area shown on Figure 1 that would affect the Property. These notifications shall include a certification that the requirements of this covenant were adhered to.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant. The notice shall explicitly state the requirements of Activities 5-7 to ensure worker protection and proper handling of impacted media.

4. Periodic Reporting. Annually, beginning no later than 12 months following the effective date of this Environmental Covenant, the Owner shall submit to EPD a completed Site Use, Activity and Monitoring Evaluation Form (attached).

5. Activity and Use Limitation(s). The current use of the Property is undeveloped and non-residential, as defined according to Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any future development of the property with enclosed structures, whether residential or non-residential as defined above shall require the following:

   - A vapor mitigation system or barrier shall be installed and maintained with the construction of any enclosed structures within Areas C and D indicated on attached Figure 1 until the HSRA regulated substances in groundwater at the Property reach HSRA RRS, or updated vapor modeling of groundwater contamination indicates that a vapor mitigation is not required for enclosed structures

and EPD concurs with the vapor modeling results.

- Groundwater use is prohibited, unless EPD concurs that groundwater is remediated to residential RRS. This groundwater limitation is further defined below.

6. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless COI are treated to below HSRA residential risk reduction standards.

   Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

7. Utility Worker & Construction Worker Protection. Levels of PCE have been identified in groundwater above 0.12 mg/L and 0.82 mg/L, the calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and utility workers, respectively. The area(s) with concentrations above Type 5 RRS levels is identified as Area D on Figure 1. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade. Prior to conducting construction or subsurface utility work that may result in exposure to groundwater in the designated area, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted groundwater performed in the execution of work should be done in accordance with Item 6 above.

   The exposure duration assumed for a utility worker was 35 days per year, for a period of 25 years. The exposure duration assumed for a construction worker was 250 days a year, for a period of no more than one year. Therefore, utility worker exposure in the areas that meet Type 5 RRS, but exceed Type 1-4 RRS (Area C, Figure 1), should not exceed 35 days per year for 25 years, and for construction workers should not to exceed 250 days in a year. If on site works in the areas designated above are to be exceeded, then the procedures outlined above must be followed to eliminate the work exposure pathway.

8. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

9. Right of Access. In addition to any rights already possessed by EPD and/or the Trust, the Owner shall allow authorized representatives of EPD and/or Trust the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

10. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) Trust, (2) each person holding a recorded interest in the Property

subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

11. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

12. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

13. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 10 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

- Georgia Environmental Protection Division, Branch Chief, Land Protection Branch, 2 Martin Luther King Jr. Drive SE, Suite 1154 East Tower, Atlanta, GA 30334.
- ASL Limited Partnership, 1515 S. Federal Hwy. 300, Boca Raton, FL 33432-7451

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

ASL Limited Partnership

_____
[Name of Signatory]
[Title]

Dated: _____

The Trust of John F. Rowan, Sr.

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

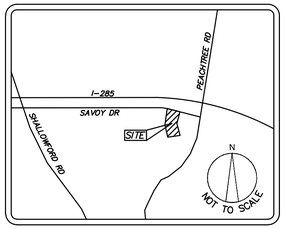
Exhibit A
Legal Description

All that tract or parcel of land lying and being in Land Lots 333 and 334 of the 18th District of DeKalb County, Georgia, and being more particularly described as follows:

Starting at an iron pin at the intersection of the North line of Land Lot 334 and the Nortwesterly side of North Peachtree Road (70 foot right-of-way), running thence South 15 degrees 26 minutes West along the Northwest side of North Peachtree Road, 117.62 feet; thence South 24 degrees 59 minutes West along siad right-of-way, 97.22 feet to a point; thence South 32 degrees 49 minutes West along said right-of-way, 97.52 feet to a point; thence running South 40 degrees 46 minutes West along said right-of-way, 97.55 feet to a point; running thence South 48 minutes 24 minutes West along said right-of-way 82.79 feet to a point; thence North 48 degrees 29 minutes West 157.2 feet to a point in Nancy Creek; thence North 88 degrees 44 minutes 30 seconds West 435.3 feet to a point; thence North 1 degree 15 minutes 30 seconds West 78 feet to a point in Nancy Creek; thence North 70 degrees 5 minutes 30 seconds West 80.10 feet to a point in Nancy Creek; thence South 62 degrees 24 minutes 30- seconds West 73.50 feet to a point in Nancy Creek; thence north 66 degrees 25 minutes 30 seconds West 158.30 feet to a point in Nancy Creek; thence North 78 degrees 16 minutes West 585.0 feet to a point in Nancy Creek; thence South 70 degrees 55 minutes West 138.50 feet to a point in Nancy Creek; thence South 34 degrees 5 minutes West 118.40 feet to a point in Nancy Creek; thence South 28 degrees 55 minutes East 35.0 feet to a point; thence South 61 degrees 5 minutes West 194.4 feet to a point on the Easterly right-of-way of North Shallowford Road, said road being an 80 foot right-of-way; thence North 29 degrees 30 minutes West 98.54 feet to a point; thence North 25 degrees 59 minutes 30 seconds West 255.67 feet to a point; thence South 89 degrees 49 minutes East 2175.67 feet to a point on the Northwesterly side of North Peachtree Road and the point of beginning.

Less and except all that tract or parcel of land lying and being in Land Lot 334 of the 18th District, DeKalb County, Georgia, conveyed from ASL Limited Partnership to Carlton G. Chapman on December 23, 1988, recorded in Deed Book 5689 page 052, DeKalb County Records, and being more particularly described as follows:

TO FIND THE TRUE POINT OF BEGINNING, commence at an iron pin set at the intersection of the north line of Land Lot 334 and the northwesterly right-of-way of North Peachtree Road; running thence south 15 degrees 12 minutes 04 seconds west along said right-of-way a distance of 116.74 feet to an iron pin set; running thence south 24 degrees 38 minutes 05 seconds west a distance of 60.00 feet to an iron pin set and the TRUE POINT OF BEGINNING; from the TRUE POINT OF BEGINNING run thence along the northwesterly right-of-way of North Peachtree Road, south 24 degrees 38 minutes 05 seconds west a distance of 37.22 feet to an iron pin set; thence continuing along said right-of-way south 32 degrees 28 minutes 05 seconds west a distance of 978.52 feet to a point; running thence south 40 degrees 03 minutes 05 seconds west a distance of 82.79 feet to an iron pin set; running thence north 48 degrees 49 minutes 55 seconds west a distance of 157.20 feet to an iron pin set; running thence north 00 degrees 07 minutes 01 seconds west a distance of 141.34 feet to an iron pin set; running thence north 89 degrees 50 minutes 05 seconds east a distance of 311.32 feet to an iron pin set and the TRUE POINT OF BEGINNING. Said tract containing 1.151 acres as shown by plat of survey for Carl Chapman, prepared by Quadra-Tech, Inc., dated December 12, 1986, being certified by Wallace Long Hambrick, Georgia Registered Land Surveyor No. 1375.



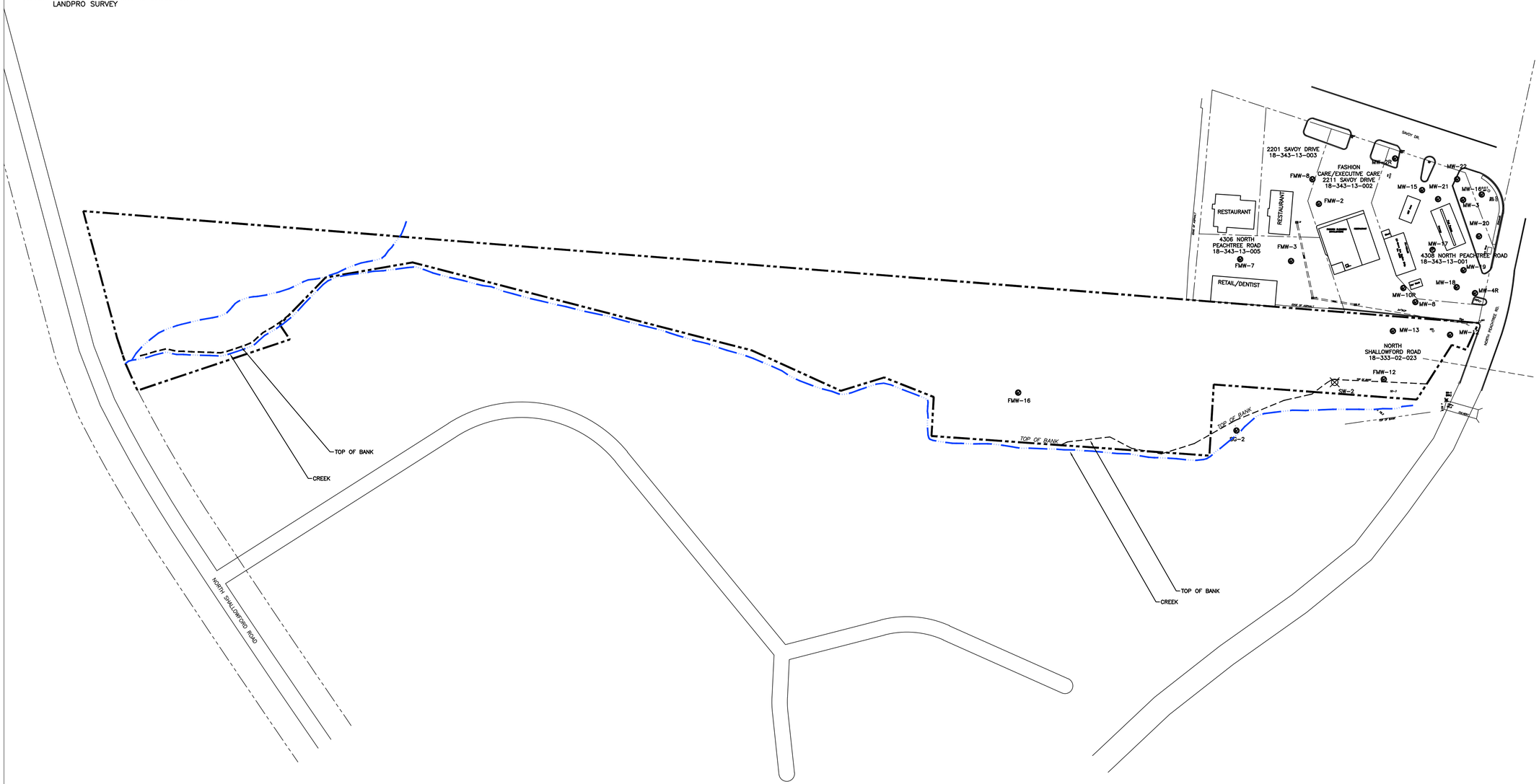
VICINITY MAP

LEGEND

APPROXIMATE PROPERTY LINE

ASL LIMITED PARTNERSHIP PROPERTY

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY



Drawn By: GHA	Date: 8-23-11
Checked by: GTM	Project No. 08096

WINTER ENVIRONMENTAL

EXHIBIT B
AREA MAP

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

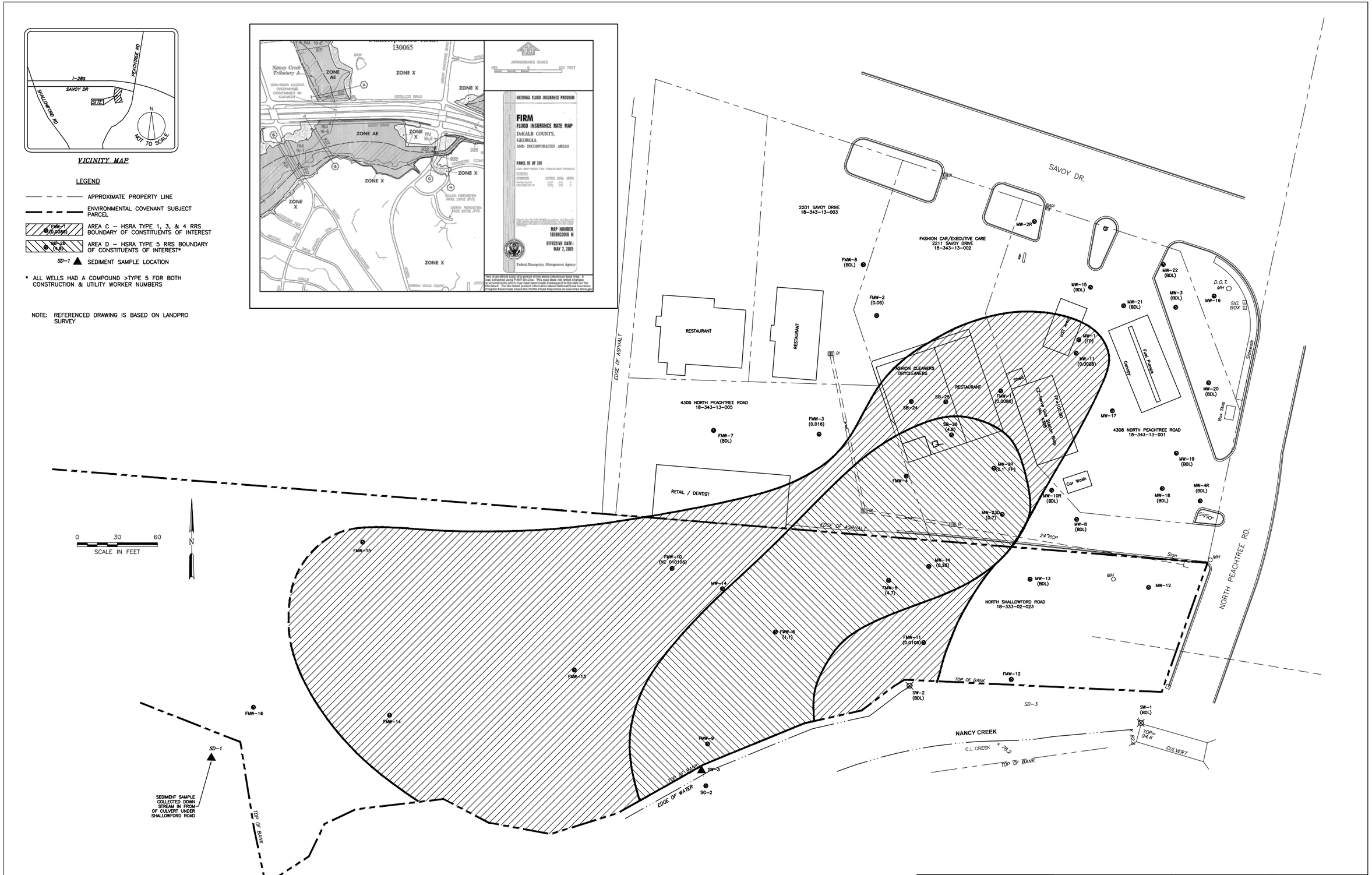
VICINITY MAP

LEGEND

- APPROXIMATE PROPERTY LINE
- ENVIRONMENTAL COVENANT SUBJECT PARCEL
- FMW-1 (0.0088) — AREA C – HSRA TYPE 1, 3, & 4 RRS BOUNDARY OF CONSTITUENTS OF INTEREST
- SB-26 (4.8) — AREA D – HSRA TYPE 5 RRS BOUNDARY OF CONSTITUENTS OF INTEREST*
- SD-1 ▲ SEDIMENT SAMPLE LOCATION

* ALL WELLS HAD A COMPOUND >TYPE 5 FOR BOTH CONSTRUCTION & UTILITY WORKER NUMBERS

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY



Drawn By: GHA	Date: 8-23-11
Checked by: GTM	Project No. 08096

WINTER ENVIRONMENTAL

FIGURE 1
ENVIRONMENTAL COVENANT
GROUNDWATER HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 333 02 023

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

SITE USE, ACTIVITY, AND MONITORING EVALUATION FORM

Fashion Care/Executive Care Site, Parcel No. 18-333-02-023,
4200 – 4300 Block of North Shallowford Road, Chamblee, DeKalb County, Georgia

TYPE	No.	CRITERIA RESPONSE	YES	NO
Property Use	1	Has the property use changed, has construction work been implemented on the property, or have building permits been applied for?		
	1a	If yes to 1, was EPD notified at least 30 days in advance?		
	1b	If no to 1a, attach a written explanation.		
Exposure	2	Has subsurface site work been conducted in the areas of the property where groundwater concentrations exceed residential cleanup standards (UEC - Figure 1 - Areas C and D)		
	2a	If yes to 2, was EPD notified within 3 business days following the site work?		
	2b	Has groundwater extraction or use for non-remedial purposes occurred?		
	2c	If no to 2a or yes to 2b, attach a written explanation, including a description regarding whether the requirements of the uniform environmental covenant (UEC) were adhered to.		
Engineering Controls	3	Have enclosed structures been installed on the property or existing structures modified in such a way as to change potential vapor intrusion assumptions?		
	3a	If yes to 3, have vapor intrusion mitigation measures been implemented, or a property specific vapor model been submitted to the Georgia EPD for review and approval? Please attach a written explanation.		
Permanent Markers	4	Are the permanent markers that delineate the restricted areas in place and legible?		
	4a	If no to 4, attach a written explanation.		
Property Instruments	5	Do all leases or other property instruments for the site have the applicable UEC and deed notice language inserted into them.		
	5a	If no to 5, attach a written explanation.		
Inspection	6	Date of inspection:		
	6a	Name of inspector:		
	6b	Photographs showing current land use, engineering controls, and permanent markers (attached)		

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_____ _____

NAME (Please type or print) TITLE

_____ _____

SIGNATURE DATE

Parcel 18-343-13-005, 4306 North Peachtree Road, Chamblee, Georgia,
Southern Automatic Company

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE Suite
1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor: Southern Automatic Company
Lenbrook
3747 Peachtree Rd. NE, Apt. 1623
Atlanta, Ga. 30319

Grantee/Holder: The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
PO Box 197
Carmel Valley, Ca 93924

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1152 East Tower
Atlanta, GA 30334

Parties with interest in the Property:

- None at time of execution

Property:

The property subject to this Environmental Covenant is the Southern Automatic Company N. Peachtree Tract (hereinafter "Property"), located at 4306 N. Peachtree Road, in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on November 25, 1974 from Hoke A. Rowan, Jr. to Southern Automatic Company recorded in Deed Book 3267, Page 130, DeKalb County Records. The area is located in Land Lot 343 of the 18th District of DeKalb County, Georgia. The property consists of approximately 0.51 acres of property developed at the time of this covenant with a single, one-story building that contains a dentist office, a beauty shop, and other retail stores. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-343-13-005 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following documents:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.
- Vapor Intrusion Model - Response to EPD Comments dated February 22, 2012 regarding Voluntary Remediation Program Reports submitted through December 2, 2011: VRP Site, Fashion Care/Executive Care, HSI No. 10786, 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, dated March 29, 2012.

These documents are available at the following locations:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Office of Rowan Randal K DDS
4306 N Peachtree Rd # B
Chamblee, GA 30341

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act and the Georgia VRP.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by Southern Automatic Company, its successors and assigns, The Trust of John F. Rowan, Sr. (herinafter "Trust"), and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the adjacent property; 2211 Savoy Drive, Chamblee Georgia. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene, vinyl chloride and 1,1-dichloroethene have been detected in groundwater beneath the Property. PCE, trichloroethene and cis-1,2-dichloroethene have been detected in soil beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated there under (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The engineering control required for the Property is the maintenance of existing concrete and asphalt covering soil impacted with regulated chemicals in Area A of Figure 1. The

institutional controls consist of no use of groundwater on the Property, and utility and construction worker protection requirements regarding impacted groundwater on the Property in Area D of Figure 2. These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Grantor, Southern Automatic Company (hereinafter "Southern Automatic"), hereby binds Grantor, its successors and assigns to the activity and use restrictions for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the Trust and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq*., and the rules promulgated there under. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from exercising any authority under applicable law.

Southern Automatic makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of the Trust, EPD, Southern Automatic and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, the Trust or its successors and assigns, Southern Automatic or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, or to apply for building permit(s). The EPD must be notified within 3 business days following any subsurface site work in the environmentally impacted areas shown on Figures 1 and 2. These notifications shall include a certification that the requirements of this covenant were adhered to.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant. The notice shall explicitly state the requirements of Activities 5-8 to ensure worker protection and proper handling of impacted media.

4. Periodic Reporting. Annually, beginning no later than 12 months following the effective date of this Environmental Covenant, the Owner shall submit to EPD a completed Site Use, Activity and Monitoring Evaluation Form (attached).

5. Activity and Use Limitation(s). The current use of the Property is non-residential as defined according to Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any future development of the property with enclosed structures, whether residential or non-residential as defined above shall require the following:

   - A vapor mitigation system or barrier be installed and maintained with the construction of any enclosed structures within the impacted soil Area A as indicated on attached Figure 1 and impacted groundwater Area D as indicated on Figure 2, until the HSRA regulated substances in soil and groundwater at the Property reach non-residential HSRA RRS; or vapor modeling of groundwater and/or soil contamination in Areas A and D on Figure 1 and 2, respectively, indicate that vapor mitigation is not required for enclosed structures and EPD concurs with the vapor modeling results; and
   - Groundwater use is prohibited (unless EPD concurs that groundwater is remediated to residential RRS).

6. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless HSRA regulated substances are treated to below HSRA residential RRS for groundwater.

   Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

7. Soil Limitation. The concrete and asphalt covering the area designated as Area A in Figure 1 as having regulated substances at concentrations greater than HSRA non-residential RRS, must be maintained and shall only be breached in accordance with the restrictions herein. Should intrusive activities within the area designated in Figure 1 as having regulated substances at concentrations greater than HSRA non-residential RRS be required, the extracted, impacted soil should be managed in accordance with all applicable local, state and federal rules and regulations governing the management of such material. Soil removed from this area should not be placed back into the excavation, but be properly characterized for disposal in accordance with 40 CFR Part 261(specifically 40 CFR Parts 261.20-24, regarding characteristic waste), and transported and disposed of at an appropriate disposal facility. The excavation should be backfilled with clean fill material and recapped with an impervious surface. Recapping of the area of excavation would not be necessary if all the impacted soil in the excavation area is removed to below applicable HSRA residential RRS to the water table for the regulated chemicals of concern noted in the "Description of Contamination and Corrective Action" above.

8. Utility Worker & Construction Worker Protection. Levels of the following HSRA regulated chemicals have been identified in groundwater above calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and/or utility workers as indicated:

HSRA regulated chemical	Construction Worker Threshold Concentration (mg/L)	Utility Worker Threshold Concentration (mg/L)	Comments
PCE	0.12	0.82	
Trichloroethene	0.006	0.041	
Cis-1,2-dichloroethene	2.6	18.0	This chemical was identified above the construction worker threshold only.

The area with chemical concentrations in groundwater above Type 5 RRS levels is identified as Area D on attached Figure 2. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade. Prior to conducting construction or subsurface utility work that may result in exposure to groundwater in the designated area, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted groundwater performed in the execution of work should be done in accordance with Item 6 above.

The exposure duration assumed for a utility worker was 35 days per year, for a period of 25 years. The exposure duration assumed for a construction worker was 250 days a year, for a period of no more than one year. Therefore, utility worker exposure in the areas that meet Type 5 RRS, but exceed Type 1-4 RRS, Area A in Figure 1 and Area C in Figure 2; should not exceed 35 days per year for 25 years, and for construction workers should not to exceed 250 days in a year. If on site works in the areas designated above are to be exceeded, then the procedures outlined above must be followed to eliminate the work exposure pathway.

9. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

10. Right of Access. In addition to any rights already possessed by EPD and/ Trust, the Owner shall allow authorized representatives of EPD and/or the Trust the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

11. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) the Trust, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

12. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

13. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

14. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

RepresentationsandWarranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 11 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

- Georgia Environmental Protection Division, Branch Chief, Land Protection Branch, 2 Martin Luther King Jr. Drive SE Suite 1154 East Tower, Atlanta, GA 30334.

- Southern Automatic Company, Lenbrook, 3747 Peachtree Rd. NE, Apt. 1623, Atlanta, GA 30319.

- The Trust of John F. Rowan, Sr., Attn. Mrs. Catherine Norris, Representative, PO Box 197, Carmel Valley, Ca 93924

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____day of _____, 20____.

Southern Automatic Company

_____

[Name of Signatory]
[Title]

Dated: _____

The Trust of John F. Rowan, Sr.

_____

[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

_____

[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____day of _____, 20 __, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____day of _____, 20 __, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

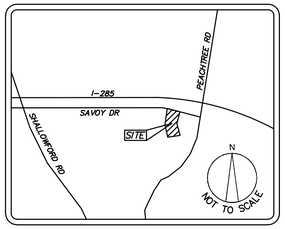
STATE OF _____
COUNTY OF _____

On this _____day of _____, 20 __, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

Exhibit A Legal
Description

Beginning at an iron pin on the south line of Land Lot 343, said point being south 89 degrees 53 minutes west 213.00 feet from the westerly right of way of North Peachtree Road, (70' R/W), thence south 89 degrees 53 minutes west 225.00 feet along the south line of Land Lot 343 to an iron pin, thence north 0 degrees 7 minutes west 316.8 feet to an iron pin on the southerly right of way of I-285, thence south 74 degrees 49 minutes east along the southerly right of way of I-285, 203.9 feet to an iron pin, thence south 15 degrees 11 minutes west 120.0 feet to a masonry nail, thence south 22 degrees 15 minutes east to the south line of Land Lot 343 and the point of beginning.



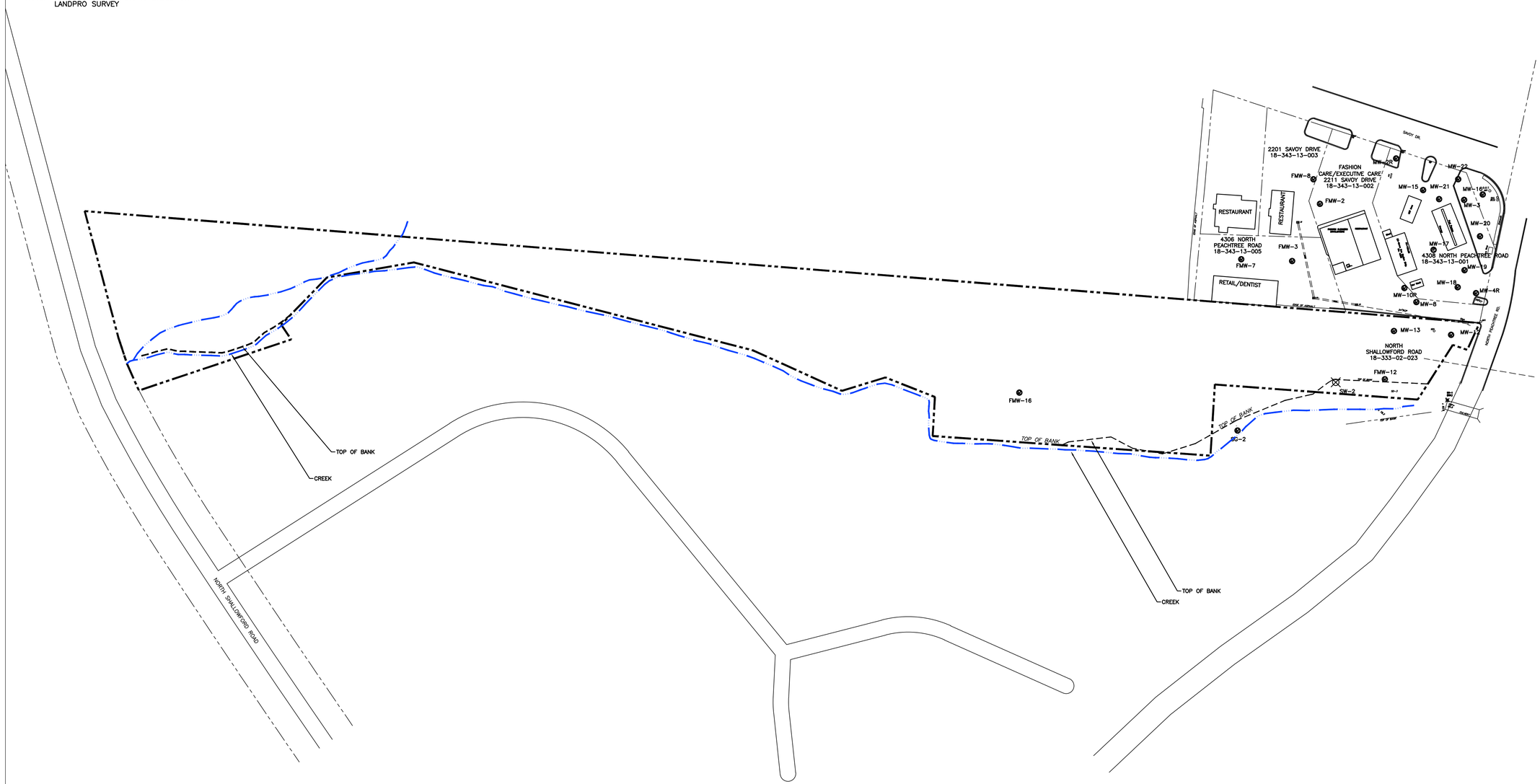
VICINITY MAP

LEGEND

APPROXIMATE PROPERTY LINE

ASL LIMITED PARTNERSHIP PROPERTY

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

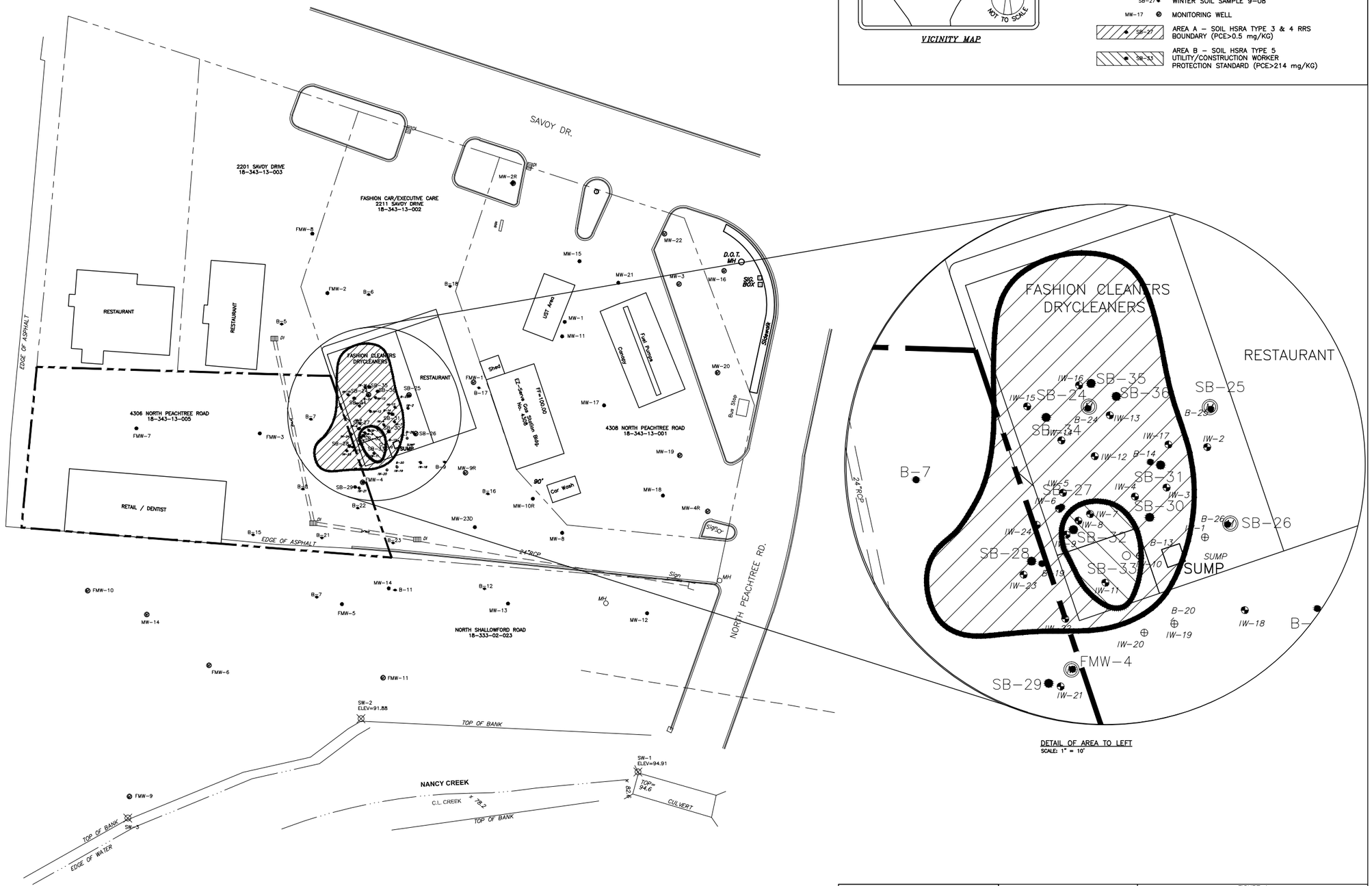


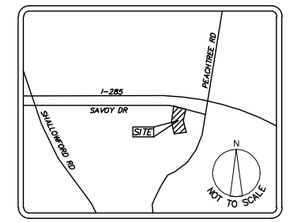
Drawn By: GHA	Date: 8-23-11
Checked by: GTM	Project No. 08096

WINTER ENVIRONMENTAL

EXHIBIT B
AREA MAP

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341





VICINITY MAP

LEGEND

- APPROXIMATE PROPERTY LINE
- ENVIRONMENTAL COVENANT SUBJECT PARCEL
- IW-19 INJECTION WELL
- FMW-2 WINTER CONFIRMATION SOIL SAMPLE 5-09
- B-18 EPIC SOIL SAMPLE 8-06, 4-07
- SB-27 WINTER SOIL SAMPLE 9-08
- MW-17 MONITORING WELL
- SB-27 AREA A – SOIL HSRA TYPE 3 & 4 RRS BOUNDARY (PCE>0.5 mg/KG)
- SB-32 AREA B – SOIL HSRA TYPE 5 UTILITY/CONSTRUCTION WORKER PROTECTION STANDARD (PCE>214 mg/KG)

DETAIL OF AREA TO LEFT
SCALE: 1" = 10'

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

Drawn By: GHA	Date: 5/11/12
Checked by: GTM	Project No. 08096

WINTER ENVIRONMENTAL

FIGURE 1
ENVIRONMENTAL COVENANT
SOIL HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 343 13 005

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

VICINITY MAP

LEGEND

APPROXIMATE PROPERTY LINE

ENVIRONMENTAL COVENANT SUBJECT PARCEL

FMW-1 (0.0086) AREA C – HSRA TYPE 1, 3, & 4 RRS BOUNDARY OF CONSTITUENTS OF INTEREST

SB-26 (4.8) AREA D – HSRA TYPE 5 RRS BOUNDARY OF CONSTITUENTS OF INTEREST*

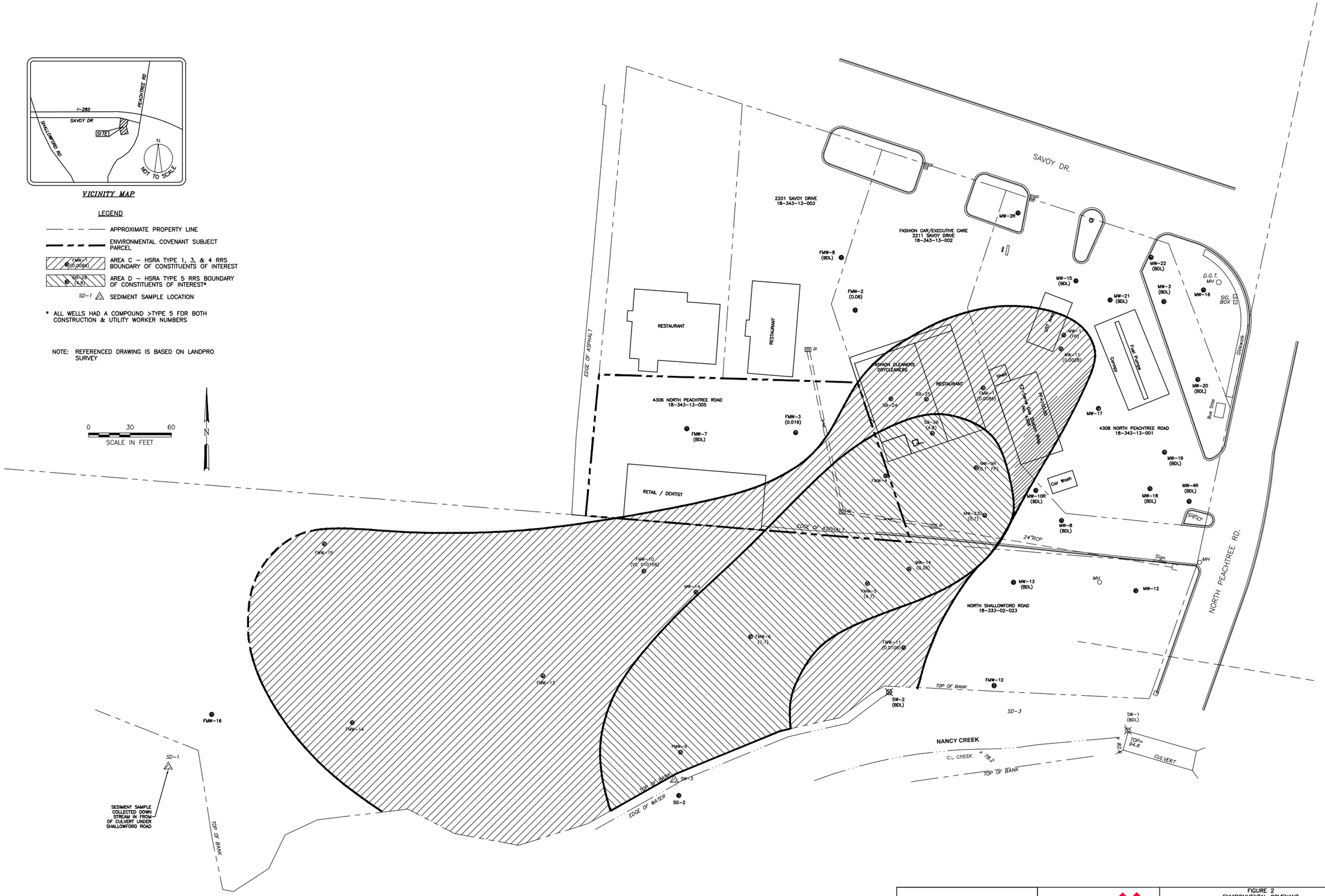
SD-1 SEDIMENT SAMPLE LOCATION

* ALL WELLS HAD A COMPOUND >TYPE 5 FOR BOTH CONSTRUCTION & UTILITY WORKER NUMBERS

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

0 30 60
SCALE IN FEET

N



Drawn By: GHA	Date: 5-11-12
Checked by: GTM	Project No. 08096

WINTER ENVIRONMENTAL

FIGURE 2
ENVIRONMENTAL COVENANT
GROUNDWATER HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 343 13 005

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

SITE USE, ACTIVITY, AND MONITORING EVALUATION FORM

Fashion Care/Executive Care Site, Parcel No. 18-343-13-005,
4306 N. Peachtree Road, Chamblee, DeKalb County, Georgia

TYPE	No.	CRITERIA RESPONSE	YES	NO
Property Use	1	Has the property use changed, has construction work been implemented on the property, or have building permits been applied for?		
	1a	If yes to 1, was EPD notified at least 30 days in advance?		
	1b	If no to 1a, attach a written explanation.		
Exposure	2	Has subsurface site work been conducted in the areas of the property where soil and/or groundwater concentrations exceed residential cleanup standards (UEC - Figure 1 - Area A and Figure 2 - Areas C and D)?		
	2a	If yes to 2, was EPD notified within 3 business days following the site work?		
	2b	Has groundwater extraction or use for non-remedial purposes occurred?		
	2c	If no to 2a or yes to 2b, attach a written explanation, including a description regarding whether the requirements of the uniform environmental covenant (UEC) were adhered to.		
Engineering Controls	3	Is the concrete/asphalt cover intact and of sufficient quality to prevent exposure to soil in the area of the property where soil concentrations exceed residential cleanup standards (UEC – Figure 1 - Area A)?		
	3a	If no to 3, are corrective measures being taken? Please attach a written explanation.		
	3b	Have enclosed structures been installed on the property or existing structures modified in such a way as to change potential vapor intrusion assumptions?		
	3c	If yes to 3b, have vapor intrusion mitigation measures been implemented? Please attach a written explanation.		
Permanent Markers	4	Are the permanent markers that delineate the restricted areas in place and legible?		
	4a	If no to 4, attach a written explanation.		
Property Instruments	5	Do all leases or other property instruments for the site have the applicable UEC and deed notice language inserted into them.		
	5a	If no to 5, attach a written explanation.		
Inspection	6	Date of inspection:		
	6a	Name of inspector:		
	6b	Photographs showing current land use, engineering controls, and permanent markers (attached)		

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_____ _____

NAME (Please type or print) TITLE

_____ _____

SIGNATURE DATE

VOLUNTARY REMEDIATION PROGRAM
VOLUNTARY INVESTIGATION AND REMEDIATION PLAN SEMIANNUAL STATUS REPORT

Date: June 3, 2013

Site Name: Fashion Care/Executive Care Site, HSI No. 10786

Site Address: 2211 Savoy Drive, Chamblee, Georgia

County: DeKalb

This electronic copy of the Voluntary Investigation and Remediation Plan Semiannual Status Report dated June 3, 2013 for the above referenced Fashion Care/Executive Care Site, HSI No. 10786, 2211 Savoy Drive, Chamblee, Georgia, DeKalb County is complete, identical to the paper copy, and virus free.

Semiannual Status Report

Voluntary Remediation Program

Fashion Care/Executive Care Site
HSI No. 10786
2211 Savoy Drive, Chamblee, DeKalb County, Georgia

226203.00

John F. Rowan, Sr., Item IV Trust
Carmel Valley, CA

June 2, 2013

770.622.6766
Leonard Diprima

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

Voluntary Investigation and Remediation Plan
Semiannual Status Report
Voluntary Remediation Program

Fashion Care/Executive Care Site
HSI No. 10786
2211 Savoy Drive, Chamblee, DeKalb County, Georgia

Prepared For

John F. Rowan, Sr. Item IV Trust
PO Box 197, Carmel Valley, CA 93924

Prepared by

WOODARD &CURRAN

2055 Sugarloaf Parkway, Suite 175
Duluth, Georgia 30097

Project No. 226203

June 3, 2013

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Section 1
PE/PG Certification

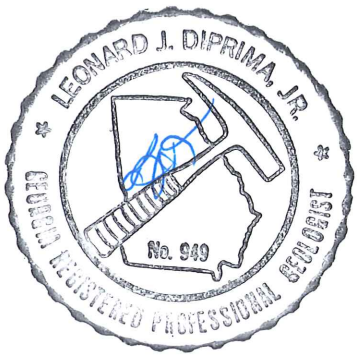
I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional geologist who is registered with the Georgia State Board of Registration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

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

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

Leonard J. Diprima, Jr. / Georgia PG #949	June 3, 2013
Printed Name and GA PE/PG Number	Date

Signature and Stamp



Section 2
Introduction

Woodard & Curran (W&C) has prepared this Voluntary Investigation and Remediation Plan Semiannual Status Report (Status Report) in accordance with the Voluntary Remediation Program (VRP) for the Fashion Care/Executive Care Site (Site), Hazardous Site Inventory (HSI) No. 10786, located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, on behalf of the John F. Rowan, Sr. Item IV Trust (Trust). On July 9, 2010, a Voluntary Investigation and Remediation Plan Application (VIRP) was submitted to the Georgia Environmental Protection Division (EPD) Hazardous Sites Response (HSRA) Program for the Site. On December 2, 2010, the EPD approved the VIRP with comments and entered the Site into the VRP. This Status Report has been prepared to present the activities conducted from December 3, 2012 through June 2, 2013 for the Site in accordance with the VRP.

Section 3
Work Performed – June 3, 2012 through December 2, 2012

The activities currently identified to be performed at the Site under the VRP are outlined in the following documents:

- VIRP dated July 9, 2010;
- EPD VIRP approval letter dated December 2, 2010;
- EPD VIRP comment letter dated December 2, 2010; and the
- VRP Action Plan Technical Memorandum dated February 3, 2011 included as an attachment to the Financial Assurance submittal to the EPD dated March 2, 2011.

The activities that have been performed from December 3, 2012 through June 2, 2013 are as follows:

- Continued negotiations with ASL Limited Partnership regarding the placement of an environmental covenant on parcel 18-333-02-023.
- Evaluation of the need to have an environmental covenant on parcel 18-333-02-023.
- Determination of the cause of groundwater mounding beneath the Fashion Care building, and mitigation of the cause.
- Completion of the horizontal delineation of impacts to Type 1 RRS to the surficial aquifer.

3.1 Necessity for Environmental Covenant - ASL Property (Parcel 18-333-02-023)

An evaluation of the necessity to place an environmental covenant on parcel 18-333-02-023, owned by ASL Limited Partnership (ASL); the most downgradient property impacted by the release on the Fashion Care property (parcel 18-343-13-002); has been underway by Woodard and Curran. A tax parcel map is provided as Figure 1. The following areas have been evaluated and endpoints reached through discussion with the EPD.

- <u>Direct Exposure Pathway to Impacted Soil and Groundwater</u>: There is no impacted soil on parcel 18-333-02-023; therefore, soil exposure is not a pathway of concern. There is impacted groundwater on the parcel above a Type 1 RRS and areas where groundwater concentrations are currently or have the potential to be above Type 5 RRS established for utility and construction workers in the future, as shown on Figure 2. Following a review of the historical depth to groundwater, it was determined by Woodard and Curran and the EPD that the depth to groundwater on this parcel was sufficient such that it did not pose a risk associated with a construction worker scenario.

  The potential exposure pathway for a utility worker was also examined. The depth to groundwater on this parcel was also sufficient such that it did not pose a risk associated with the

average utility worker scenario. There are currently two existing sanitary sewer lines on the parcel that were also examined relative to potential exposure to impacted groundwater. As shown on Figure 3, the sanitary sewer lines do not currently lie in an area of the plume that is above a utility worker RRS; however, a scenario associated with a hypothetical future migration of the plume at concentrations above these RRS into this area was evaluated relative to utility worker exposure. Both sanitary sewer lines were sounded at the manhole locations shown on Figure 3 and the depths evaluated relative to the depth to groundwater in the areas of potential concern.

The base of the northernmost sanitary sewer line was found to be at a maximum depth of approximately 6.65 feet below ground surface (bgs). Compared to the depth to groundwater in the area of the plume of 11.3 feet bgs (based on FMW-5), it was determined by Woodard and Curran and the EPD that this line does not present a risk to utility workers based upon depth of the line alone.

The southernmost sanitary sewer line was found to be at a depth of 14.5 feet bgs in the manhole to the west and 18 feet bgs in the manhole to the east near North Peachtree Road. Compared to the depth to groundwater in the area of the plume of 11.3 feet bgs (based on FMW-5), it was determined utility workers working on this line could reach impacted groundwater; however, based on the necessary depth for an excavation to reach this line and the PPE required by a utility worker to conduct work associated with the sanitary wastewater, an exposure pathway relative to impacted groundwater would not be complete.

- Groundwater Use Restriction: It was determined that because the Fashion Care site was not listed on the HSII for the groundwater pathway, a restriction on groundwater use through an environmental covenant was not required.

- Vapor Intrusion Pathway: Due to the presence of impacted groundwater on this parcel the potential for exposure through the vapor intrusion pathway was evaluated. Upon examination of the parcel relative to hindrances to potential development, Woodard and Curran and the Trust consider the potential to develop enclosed structures on the portion of the parcel currently impacted and potentially impacted in the future by affected groundwater (approximately 2.61 acres) severely limited, if not infeasible, due to a number of factors unrelated to the Fashion Care release. The Trust would like to present these factors to the EPD for consideration. If the EPD is in agreement, this portion of parcel 18-333-02-023 would not present a potential completed pathway for vapor intrusion into enclosed structures because such structures cannot be built in the areas of potential concern. Therefore, an environmental covenant is not necessary for this parcel under the VRP. The factors are presented as follows and are shown on Figure 3.

    - *FEMA Flood Zone Restrictions*. Approximately 62% (1.62 acres) of the currently impacted and potentially future impacted area of this parcel lie within the designated

Floodway Zone as shown on Figure 3. A Floodway is defined as: "that portion of the floodplain which is effective in carrying flow, within which this carrying capacity must be preserved and where the flood hazard is generally highest, i.e., where water depths and velocities are the greatest. It is that area which provides for the discharge of the base flood so the cumulative increase in water surface elevation is no more than one foot." This section of Nancy Creek routinely floods over its banks and across parcel 18-333-02-023 whenever there is a rain storm in the area, as it receives a very large volume of precipitation runoff from impervious surfaces in the immediate area and upstream area of the Nancy Creek watershed. The significant need to maintain this flood zone capacity to protect other parts of the watershed do not make it a candidate for a development variance from the USACE and EPD for development of enclosed structures, as there are few alternatives to replace the flood volume capacity in the immediate watershed.

The remainder of the parcel, approximately 38% (0.99 acres), of the currently impacted and potentially future impacted area lies within the designated Flood Zone AE as shown on Figure 3. Flood Zone AE is identified as a Special Flood Hazard Area (SFHA). SFHA are in the flood plain within a community subject to a 1 percent or greater chance of flooding in any given year. The 1-percent annual chance flood is also referred to as the base flood or 100-year flood. The restrictions and requirements associated with development of a structure in the flood zone are numerous and onerous, can be very difficult to comply with and would severely inhibit the ability of development of this strip of land within the area with impacted groundwater. Some of these restrictions include, but are not limited to:

- All new construction and substantial improvements in a flood-prone area shall (i) be designed (or modified) and adequately anchored to prevent flotation, collapse, or lateral movement of the structure resulting from hydrodynamic and hydrostatic loads, including the effects of buoyancy, (ii) be constructed with materials resistant to flood damage, (iii) be constructed by methods and practices that minimize flood damages, and (iv) be constructed with electrical, heating, ventilation, plumbing, and air conditioning equipment and other service facilities that are designed and/or located so as to prevent water from entering or accumulating within the components during conditions of flooding. [44CFR60.3(a)(3)]

- New and replacement water supply systems within flood-prone areas shall be designed to minimize or eliminate infiltration of flood waters into the systems. [44CFR60.3(a)(5)]

- Within flood-prone areas, (i) new and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the

systems and discharges from the systems into flood waters and (ii) onsite waste disposal systems shall be located to avoid impairment to them or contamination from them during flooding. [44CFR60.3(a)(6)]

This strip of AE designated flood zone is further reduced in size to 0.55 acres due to the restrictions from the 25-foot stream buffer and the DeKalb County Sewer easement. As a result of the restrictions associated with building within this flood zone, and the limited acreage and narrow dimensions of this area, Woodard and Curran and the Trust propose that this area is not developable for enclosed structures.

- *Stream Buffer*. The standard stream buffer is 25 feet. This reduces the total acreage by approximately 0.65 acres. Though it is not a stand-alone hindrance to development in this portion of the parcel, a variance from the USACE and EPD would be required to encroach into this buffer. The cost and uncertainty of obtaining such a variance for Nancy Creek adds another level of difficulty to an economically viable development of this small area.

- *Sewer Easement*. As noted above, DeKalb County maintains two active sanitary sewer lines that run through the affected portion of parcel 18-333-02-023. Each of these sewers contains a 7.5-foot buffer to each side of the centerline of each sewer that does not allow for development of structures within the easement. This easement is shown on Figure 3. This easement encompasses approximately 0.14 acres of the total impacted/potentially impacted area. It further reduces the difficult to develop area (Flood Zone AE area) to an even narrower strip of land.

- *Hydric Soil Classification/Potential Wetlands*. The soil in the area of parcel 18-333-02-023 has been designated with a USCS classification of "Tf" by the Natural Resources Conservation Service. "Tf" soils are identified as hydric soils, and are associated with the regular flooding from Nancy Creek. Though this meets only one of the qualifications for a designated wetland, it is feasible that parts of the area of concern on this parcel could potentially meet the requirements of a designated wetland. This is yet another complicating, area restricting factor to the development of enclosed structures on this portion of the parcel.

The combination of the above factors make the development of enclosed structures on the portion of the parcel currently impacted and potentially impacted in the future by affected groundwater extremely difficult, if not infeasible. As a result, it is proposed that a completed vapor intrusion pathway will not occur. To monitor that development of enclosed structures is not occurring in the area of concern associated with potential vapor intrusion, the Trust proposes to include as part of the Fashion Care property (parcel 18-343-13-002) environmental covenant, annual monitoring of this area relative to development. An item on the annual Site

Use, Activity, and Monitoring Evaluation Form for the Fashion Care property would be added for this purpose.

In summary, based upon the lack of an exposure pathway to impacted groundwater, the lack of impacted soil, no requirement for groundwater use restrictions, and the infeasibility of the development of enclosed structures relative to a potential vapor intrusion pathway on the ASL property; it is proposed that an environmental covenant is not required for parcel 18-333-02-023 under the VRP.

3.2 Determination of Cause - Groundwater Mounding Beneath Fashion Care building

In 2009 through the mapping of the water table, it was discovered that groundwater was mounding beneath the rear of the Fashion Care building. An evaluation of the cause led to the discovery that a lint trap sump built in the 1960's in the rear of the building was leaking, and also that the current tenant was apparently discharging wastewater from the PERC drycleaning machine into the sump. Non-sanitary waste water from the facility operations is routed through the sump prior to flowing on to the sanitary sewer system. As a result of this discovery, the tenant discharging activities were stopped, the tenant was required to replace the PERC drycleaning machine with a new petroleum-based drycleaning machine, the sump was cleaned and the waste properly disposed, and the sump was resealed by the Trust by relining it with concrete and sealer. The mounding dissipated following the repairs.

When the mounding was seen in the same area in 2012 (see Figure 4), the sump was inspected and it was found that the 2009 repairs were no longer effective. It was first examined if the sump could be taken out of the discharge process, but it could not. In January 2013, the sump was again cleaned and a different two step sealing process was conducted by Johnson Construction Assistance Team, LLC under contract to the Trust. Photographs of the primary, largest sump and a secondary sump after resealing operations were completed are in Appendix A. After completion of the process the sump was put back into service. A round of water table measurements were collected on April 1, 2013 following the installation of monitoring well FMW-17, described below, and after the surficial aquifer in the area had had sufficient time to begin re-equilibrating following the sump repairs to determine if the repairs had been effective. Figure 5 shows the potentiometric surface in the area of the building, which indicates the mounding, though still present appears to be re-equilibrating.

3.3 Completion of the Horizontal Delineation

On March 28, 2013 Woodard & Curran installed one additional monitoring well, FMW-17, to complete the horizontal delineation of the groundwater plume originating from the Fashion Care release. FMW-17 is shown on Figure 2, relative to the round of groundwater sample data collected in July 2012, and showing the results of the sampling conducted following installation. A dual, direct-push (DPT)/hollow-stem auger (HSA) drilling rig was used to install the monitoring well. DPT was used to collect continuous soil cores to determine lithology and the position of the water table. The water table was encountered at approximately 7.5 feet bgs. A soil boring for FMW-17 is in Appendix B. The monitoring well was

installed using 4.25-inch ID HSA's. A 2-inch ID PVC monitoring well was installed using 10 feet of 0.01-inch slotted PVC screen and PVC riser. The screen was set at 3.5 to 13.5 feet bgs. An above grade, stick-up completion was used with a locking well cap and locking steel protective casing with a surrounding concrete pad. A monitoring well construction log is in Appendix B.

Following well development, FMW-17 was sampled for Target Compound List (TCL) volatile organic compounds (VOCs). Groundwater sampling was conducted using a peristaltic pump and the USEPA low flow/low stress method. Field measurements of pH, conductivity, dissolved oxygen, oxidation-reduction potential and temperature were collected every five minutes until all parameters stabilized within approximately 10 percent for three consecutive readings. When this stabilization point was reached samples were collected for TCL VOCs using the pipette method. A groundwater sampling data sheet for this sampling event is in Appendix B.

The groundwater sample was secured in an ice-filled cooler and hand delivered to AES for analysis. Laboratory work orders, and chain-of-custody documents, which included information on project name and number, sampler(s) signature, project manager's name, sample matrix, sample identification/station ID number, date and time of sample collection, total number of containers per sample station, requested analyses and number of containers per analyses per sample station, preservatives, and any other pertinent comments for the laboratory, were placed within each cooler for delivery. The laboratory data report for FMW-17 is in Appendix C.

Following the equilibration of FMW-17, a full round of water table measurements was collected from all the existing monitoring wells on site. Prior to collecting measurements each monitoring well was opened and allowed to equilibrate. A water level indicator calibrated to 0.01 feet was used for water level measurements. At each well location, the depth to the water table was measured from the well top of casing and then sounded to determine the height of the water column and to determine if the well was obstructed. The water level indicator was cleaned with isopropyl alcohol and rinsed with deionized water between monitoring wells. Water level measurements collected April 1, 2013 are presented in Table 1, and a potentiometric surface map for the event is shown as Figure 5.

FMW-17 Groundwater Analytical Results

Monitoring well FMW-17 was sampled and analyzed for TCL VOCs. No VOCs were detected in groundwater above standard laboratory reporting limits for Method 8260B. Therefore, the installation and sampling of monitoring well FMW-17 has completed the horizontal of the groundwater plume under the VRP. Table 2 presents the July 2012 surface water sample results and the results from monitoring well FMW-17. The laboratory data report for FMW-17 is included in Appendix C.

Section 4
Work to be Performed

The additional activities anticipated to be performed at the Site through completion of the VIRP are outlined in the VIRP dated July 9, 2010, the EPD VIRP approval letter dated December 2, 2010, the EPD VIRP comment letter dated December 2, 2010, and the VRP Action Plan Technical Memorandum dated February 3, 2011 included as an attachment to the Financial Assurance submittal to the EPD dated March 2, 2011. More specifically, these tasks are presented on Figure 6. The primary tasks anticipated to be completed during the next six months for the period ending December 2, 2013, are Nos. 4, 7 and 10. These plus additional task to be completed are presented in more detail below.

Anticipated Tasks June 3, 2013 through December 2, 2013:

- Preparation of a "Corrective Action Plan" to be implemented if surface water detections occur during future surface water sampling events.

- Refining of the Conceptual Site Model (Figure 7):
  - Installation of borings across the impacted area to confirm presence/absence of a dry silt, shallow confining unit,
  - Conduct a well pump test to recalculate horizontal hydraulic gradient for the Site and for input into future modeling.

- An evaluation of the groundwater and surface water data collected will be used to determine what monitoring wells need to be replaced that were abandoned by the EPD UST Program to aid in groundwater monitoring and completion of the conceptual site model. The proposed replacement wells will be discussed with the EPD.

- For those Environmental Covenants that have been executed with property owners the following will be completed by the Trust:
  - Identify "Parties with interest in the Property". This will include anyone with an easement across the property, mortgage holder, etc.
  - Identify the surrounding property owners.
  - At least 30 days prior to obtaining the EPD Director's signature, a copy of the covenant will be sent to the following:
    - Anyone identified as a "Grantee/Holder";
    - Each person holding a recorded interest in the property; "Parties with interest in the Property";
    - "Fee Owner of Property/Grantor";
    - Each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located; and
    - Each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

- Within thirty (30) days after the date of the EPD Director's signature, the Trust shall:
  - File the EC with the Recorders of Deeds for the County in which the Property is located;
  - Send a file stamped copy of the EC to EPD within thirty (30) days of recording;
  - Send a file-stamped copy to each of the following:
    - Anyone identified as a "Grantee/Holder";
    - Each person holding a recorded interest in the property; "Parties with interest in the Property";
    - "Fee Owner of Property/Grantor";
    - Each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located; and
    - Each owner in fee simple whose property abuts the property subject to the Environmental Covenant.
- Develop final vapor mitigation system design.

The tasks required to complete the VIRP are presented on Figure 8, a revised estimated schedule. This schedule will be revised with the submittal of each Semiannual Status Report, as required.

Section 5
Professional Services Hours This Period

A total of approximately 98.5 professional service hours have been completed by Woodard & Curran from December 3, 2012 through June 2, 2013. Of these total hours, 52 hours were utilized by the professional geologist overseeing the VRP project. The approximate distribution of hours utilized for implementation of the VRP during this period is presented in Table 3.

Tables

Table 1
Water Table Elevation Data – April 1, 2013
Fashion Care/Executive Care VRP Site (HSI# 10786)

Well I.D.	Top of Casing Elevation (feet)	Depth to Free Product (feet)	Depth to Water (feet)	Depth to Well Bottom (feet)	Product Thickness (feet)	Water Colum Height (feet)	Water Table Elevation (feet)
FMW-1	98.92	none	13.05	25.00	0.00	11.95	85.87
FMW-2	97.07	none	11.08	22.20	0.00	11.12	85.99
FMW-3	96.96	none	11.36	19.90	0.00	8.54	85.60
FMW-4	97.11	none	11.75	20.30	0.00	8.55	85.36
FMW-5	95.4	none	11.30	18.72	0.00	7.42	84.10
FMW-6	93.12	none	9.85	18.66	0.00	8.81	83.27
FMW-7	96.81	none	11.75	18.48	0.00	6.73	85.06
FMW-8	97.4	none	11.55	20.18	0.00	8.63	85.85
FMW-9	94.07	none	11.02	19.26	0.00	8.24	83.05
FMW-10	92.85	none	9.45	19.15	0.00	9.70	83.40
FMW-11	94.4	none	11.10	19.13	0.00	8.03	83.30
FMW-12	95.9	none	12.58	19.35	0.00	6.77	83.32
FMW-13	92.05	none	8.45	19.65	0.00	11.20	83.60
FMW-14	92.03	none	9.46	18.88	0.00	9.42	82.57
FMW-15	92.1	none	8.92	14.34	0.00	5.42	83.18
FMW-16	91.32	none	9.38	15.36	0.00	5.98	81.94
FMW-17	91.90	none	9.00	17.32	0.00	8.32	82.90
SB-24	98.56	none	8.32	16.25	0.00	7.93	90.24
SB-25	98.5	none	12.44	16.58	0.00	4.14	86.06
SB-26	98.36	none	10.43	16.30	0.00	5.87	87.93
SW9	NA	NA	NA	NA	NA	NA	82.37
SW11	NA	NA	NA	NA	NA	NA	82.64
SW14	NA	NA	NA	NA	NA	NA	81.87

Notes:
NA = not applicable

Table 2

Groundwater Analytical Data - Detected Constituents - July 2012 and March 2013

Fashion Care/Executive Care VRP Site (HSI#10786)

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 4 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		FMW-1	DUP 1 (FMW-1)	FMW-2	FMW-3	FMW-4	FMW-5	FMW-6	FMW-7	FMW-8	FMW-9	FMW-10	FMW-11	FMW-12	FMW-13	FMW-14	FMW-15
	Date Sampled				Construction Worker	Utility Worker	7/11/12	7/11/12	7/11/12	7/12/12	7/12/12	7/11/12	7/11/12	7/12/12	7/11/12	7/10/12	7/11/12	7/11/12	7/12/12	7/10/12	7/11/12	7/10/12
Volatile Organic Compounds																						
Fashion Care HSRA Site Constituents of Interest																						
1,1-Dichloroethene		75-35-4	0.007	0.5229	0.577	4.12	<0.005	<0.005	<0.5	<0.005	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1, 2-Dichloroethene		156-59-2	0.53	1.02**	12.8	91.3	0.18	0.16	<0.5	<0.005	**75**	0.059	**0.87**	<0.005	<0.005	**0.72**	<0.005	<0.005	<0.005	0.078	0.027	<0.005
Tetrachloroethene (PCE)		127-18-4	0.005**	0.005*	0.286	0.082	**0.0097**	**0.0087**	<0.5	<0.005	**1.5**	**0.0073**	**2.6**	<0.005	<0.005	**1.8**	<0.005	**0.03**	<0.005	**0.23**	**0.027**	<0.005
trans-1, 2-Dichloroethene		156-60-5	0.1	2**	0.174	1.24	<0.005	<0.005	<0.5	<0.005	**0.54**	<0.005	0.016	<0.005	<0.005	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene (TCE)		79-01-6	0.005**	0.0345	1.02	0.290	**0.012**	0.01	<0.5	<0.005	**1.1**	**0.0068**	**0.17**	<0.005	<0.005	**0.13**	<0.005	<0.005	<0.005	**0.054**	**0.023**	<0.005
Vinyl Chloride		75-01-4	0.002**	0.0033	0.27	0.097	**0.055**	**0.05**	<0.2	<0.002	**2.4**	**0.0071**	**0.0078**	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	**0.0032**
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laboratory Artifacts																						
1,2-Dichlorobenzene		95-50-1	NA(1)	NA(1)	NC	NC	<0.005	<0.005	<0.5	<0.005	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acetone		67-64-1	4	45.6	NC	NC	<0.05	<0.05	<5	<0.05	<5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorobenzene		108-90-7	NA(1)	NA(1)	NC	NC	<0.005	<0.005	<0.5	<0.005	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE																						
1,2-Dibromoethane (EDB)		106-93-4	PRC	PRC	NC	NC	<0.005	<0.005	<0.5	<0.005	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1, 2-Dichloroethane		107-06-2	PRC	PRC	NC	NC	<0.005	<0.005	<0.5	<0.005	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone (MEK)		78-93-3	PRC	PRC	NC	NC	<0.05	<0.05	<5.0	<0.05	<5.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	PRC	NC	NC	<0.01	<0.01	<1.0	<0.01	<1.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene		71-43-2	PRC	PRC	NC	NC	1.2	0.74	13	0.07	5	<0.005	0.013	<0.005	2.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cyclohexane		110-82-7	PRC	PRC	NC	NC	0.19	0.23	<0.5	0.042	<0.5	<0.005	<0.005	<0.005	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene		100-41-4	PRC	PRC	NC	NC	0.63	0.4	2.7	<0.005	1.3	<0.005	<0.005	<0.005	2.3	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene		98-82-8	PRC	PRC	NC	NC	0.044	0.043	0.5	0.019	0.5	<0.005	<0.005	<0.005	0.091	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	PRC	NC	NC	1.1	18	1.4	<0.005	1.6	<0.005	0.31	<0.005	<0.005	0.4	<0.005	0.24	0.046	0.027	0.012	<0.005
Styrene		100-42-5	PRC	PRC	NC	NC	<0.005	<0.005	<0.5	<0.005	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene		108-88-3	PRC	PRC	NC	NC	3.3	2.1	7.9	<0.005	1.8	<0.005	<0.005	<0.005	2.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylenes, Total		1330-20-7	PRC	PRC	NC	NC	2.67	16.6	16.4	0.0078	0.71	<0.005	<0.005	<0.005	13.3	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

NOTES:

BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker
PRC,	Pertroleum related constituent
NA(1),	Not Applicable - fumigant-insecticide properly applied
NR,	Not regulated
*,	Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Type 1 RRS has a higher value.
**,	RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS in Condition 8.
NC,	Not calculated.

Table 2

Groundwater Analytical Data - Detected Constituents - July 2012 and March 2013

Fashion Care/Executive Care VRP Site (HSI#10786)

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 4 Standard (mg/L)	HSRA Type 5 Standard (mg/L)		FMW-16	SB-24	SB-26	FMW-17
	Date Sampled				Construction Worker	Utility Worker	7/10/12	7/13/12	7/13/12	3/29/13
Volatile Organic Compounds										
Fashion Care HSRA Site Constituents of Interest										
1,1-Dichloroethene		75-35-4	0.007	0.5229	0.577	4.12	<0.005	<0.5	<0.5	<0.005
cis-1, 2-Dichloroethene		156-59-2	0.53	1.02**	12.8	91.3	0.0094	**2.7**	**13**	<0.005
Tetrachloroethene (PCE)		127-18-4	0.005**	0.005*	0.286	0.082	<0.005	<0.5	**12**	<0.005
trans-1, 2-Dichloroethene		156-60-5	0.1	2**	0.174	1.24	<0.005	<0.5	<0.5	<0.005
Trichloroethene (TCE)		79-01-6	0.005**	0.0345	1.02	0.290	<0.005	<0.5	**11**	<0.005
Vinyl Chloride		75-01-4	0.002**	0.0033	0.27	0.097	<0.002	<0.2	**0.46**	<0.002
Properly Applied Chemicals, Non-HSRA Regulated Chemicals, Naturally Ocurring or Laboratory A										
1,2-Dichlorobenzene		95-50-1	NA(1)	NA(1)	NC	NC	<0.005	<0.5	<0.5	<0.005
Acetone		67-64-1	4	45.6	NC	NC	<0.05	<5	<5	<0.05
Chlorobenzene		108-90-7	NA(1)	NA(1)	NC	NC	<0.005	<0.5	<0.5	<0.005
Petroleum Constituents/VOCs Related to the EZ-Serve UST SITE										
1,2-Dibromoethane (EDB)		106-93-4	PRC	PRC	NC	NC	<0.005	<0.5	<0.5	<0.005
1, 2-Dichloroethane		107-06-2	PRC	PRC	NC	NC	<0.005	<0.5	<0.5	<0.005
2-Butanone (MEK)		78-93-3	PRC	PRC	NC	NC	<0.05	<5.0	<5.0	<0.05
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	PRC	NC	NC	<0.01	<1.0	<1.0	<0.01
Benzene		71-43-2	PRC	PRC	NC	NC	<0.005	5.3	<0.5	<0.005
Cyclohexane		110-82-7	PRC	PRC	NC	NC	<0.005	<0.5	<0.5	<0.005
Ethylbenzene		100-41-4	PRC	PRC	NC	NC	<0.005	1.2	<0.5	<0.005
Isopropylbenzene		98-82-8	PRC	PRC	NC	NC	<0.005	<0.5	<0.5	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	PRC	NC	NC	<0.005	10	<0.5	<0.005
Styrene		100-42-5	PRC	PRC	NC	NC	<0.005	<0.5	<0.5	<0.005
Toluene		108-88-3	PRC	PRC	NC	NC	<0.005	9.8	<0.5	<0.005
Xylenes, Total		1330-20-7	PRC	PRC	NC	NC	<0.005	7.7	<0.5	<0.005

NOTES:

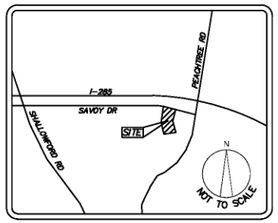
BOLD	Exceeds HSRA Type 1&3 RRS
BOLD	Exceeds HSRA Type 5 RRS-Construction Worker
BOLD	Exceeds HSRA Type 5 RRS-Utility Worker
PRC,	Pertroleum related constituent
NA(1),	Not Applicable - fumigant-insecticide properly applied
NR,	Not regulated
*,	Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Type 1 RRS has a hig
**,	RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS i
NC,	Not calculated.

Table 3
Professional Service Hours
December 3, 2012 through June 2, 2013

Company	Month/Year	Project Manager / P.G. hours	Total Hours Worked
Woodard & Curran	December 2012	33.25	51.75
Woodard & Curran	January 2013	3.25	4
Woodard & Curran	February 2013	1.25	2
Woodard & Curran	March 2013	6	19
Woodard & Curran	April 2013	4.5	8.5
Woodard & Curran	May 2013	3.75	13.25
	Total Hours	**52.00**	**98.50**

Note: The above hours do not include subcontractor hours worked for Woodard & Curran.

Figures



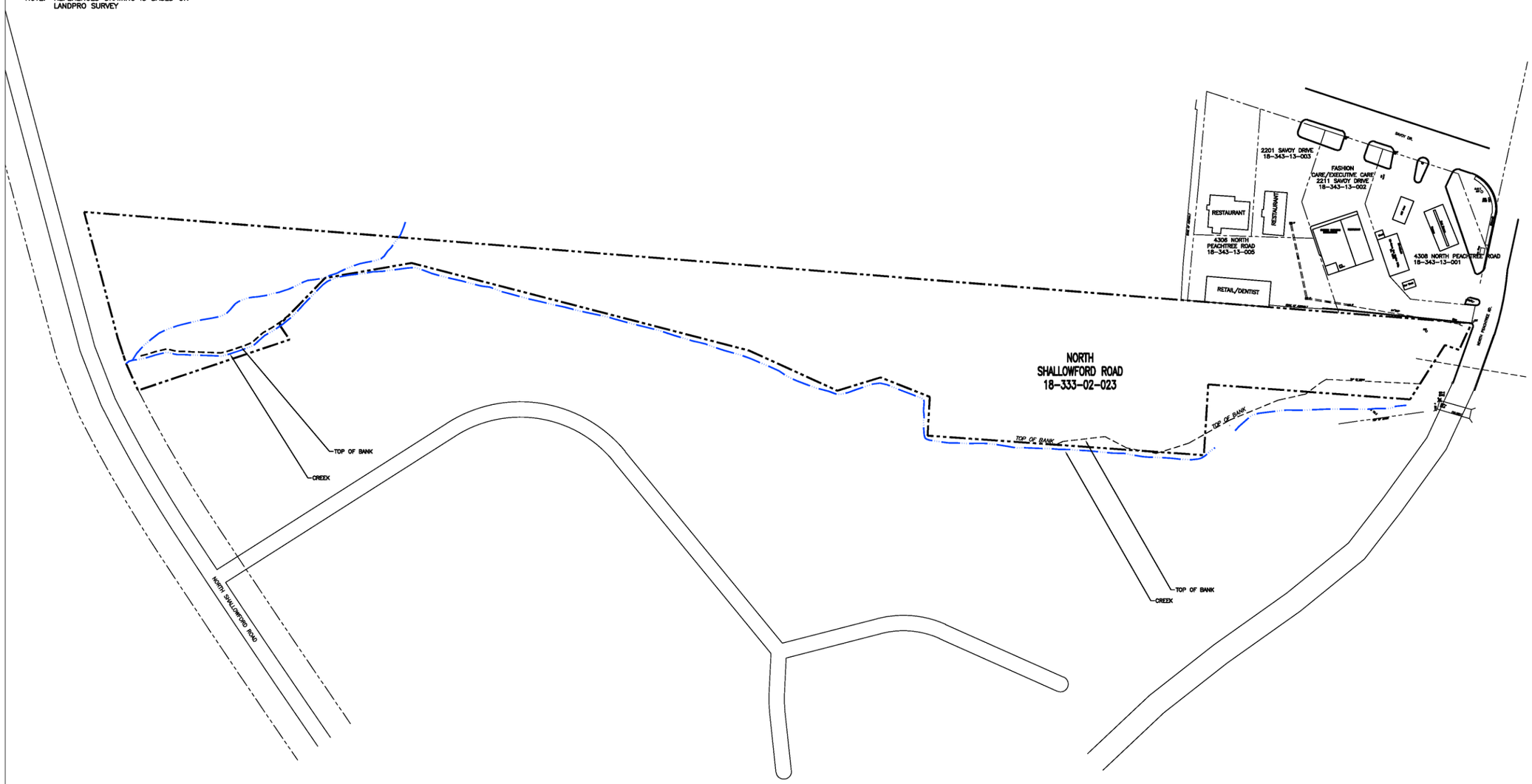
VICINITY MAP

LEGEND

APPROXIMATE PROPERTY LINE

ASL LIMITED PARTNERSHIP PROPERTY

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY



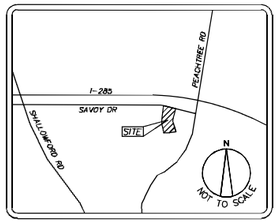
Drawn By: GHA	Date: 8-23-11
Checked by: CTM	Project No. 08096

WOODARD & CURRAN

Figure 1

TAX MAP

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341



VICINITY MAP

LEGEND

- APPROXIMATE PROPERTY LINE
- SD-1 SEDIMENT SAMPLE LOCATION
- MW-17 ABANDONED MONITORING WELL
- FMW-15 [80.85] GROUNDWATER SAMPLE LOCATION
- SW-1 SURFACE WATER SAMPLE LOCATION
- TYPE 1 & 3 RRS
- TYPE 5 CONSTRUCTION WORKER RRS
- TYPE 5 UTILITY WORKER RRS

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

0 30 60
SCALE IN FEET

N

SAVOY DR.

2201 SAVOY DRIVE
18-343-13-003

FASHION CAR/EXECUTIVE CARE
2211 SAVOY DRIVE
18-343-13-002

RESTAURANT

RESTAURANT

4308 NORTH PEACHTREE ROAD
18-343-13-005

RETAIL / DENTIST

EDGE OF ASPHALT

FASHION CLEANERS
DRYCLEANERS

RESTAURANT

UST Area

Car Wash

Fuel Pumps

Canopy

4308 NORTH PEACHTREE ROAD
18-343-13-001

Bus Stop

Sidewalk

D.O.T. MH

SIG. BOX

NORTH PEACHTREE RD.

24"RCP

NORTH SHALLOWFORD ROAD
18-333-02-023

NANCY CREEK

C.L. CREEK

TOP OF BANK

EDGE OF WATER

CULVERT

TOP= 94.6

SD-1

SEDIMENT SAMPLE COLLECTED DOWN STREAM IN FROM OF CULVERT UNDER SHALLOWFORD ROAD

FMW-2
ALL ND

FMW-3
ALL ND

FMW-4
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 75
TETRACHLOROETHENE (PCE) – 1.5
TRANS-1,2-DICHLOROETHENE – 0.54
TRICHLOROETHENE (TCE) – 1.1
VINYL CHLORIDE – 2.4

FMW-5
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.059
TETRACHLOROETHENE (PCE) – 0.0073
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – 0.0068
VINYL CHLORIDE – 0.0071

FMW-6
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.87
TETRACHLOROETHENE (PCE) – 2.6
TRANS-1,2-DICHLOROETHENE – 0.016
TRICHLOROETHENE (TCE) – 0.17
VINYL CHLORIDE – 0.0078

FMW-7
ALL ND

FMW-8
ALL ND

FMW-9
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.72
TETRACHLOROETHENE (PCE) – 1.8
TRANS-1,2-DICHLOROETHENE – 0.01
TRICHLOROETHENE (TCE) – 0.13
VINYL CHLORIDE – ND

FMW-10
ALL ND

FMW-11
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – ND
TETRACHLOROETHENE (PCE) – 0.03
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – ND
VINYL CHLORIDE – ND

FMW-12
ALL ND

FMW-13
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.078
TETRACHLOROETHENE (PCE) – 0.23
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – 0.054
VINYL CHLORIDE – 0.002

FMW-14
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.027
TETRACHLOROETHENE (PCE) – 0.027
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – 0.023
VINYL CHLORIDE – ND

FMW-15
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – ND
TETRACHLOROETHENE (PCE) – ND
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – ND
VINYL CHLORIDE – 0.0032

FMW-16
ICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 0.0094
TETRACHLOROETHENE (PCE) – ND
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – ND
VINYL CHLORIDE – ND

SB-24
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 2.7
TETRACHLOROETHENE (PCE) – ND
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – ND
VINYL CHLORIDE – ND

SB-25

SB-26
1,1-DICHLOROETHENE – ND
CIS-1,2-DICHLOROETHENE – 13
TETRACHLOROETHENE (PCE) – 12
TRANS-1,2-DICHLOROETHENE – ND
TRICHLOROETHENE (TCE) – 11
VINYL CHLORIDE – 0.46

SG-2

SW-1

SW-2

SW-3

SD-3

MW-1 MW-2R MW-3 MW-4R MW-8 MW-9R MW-10R MW-11 MW-12 MW-13 MW-14 MW-15 MW-16 MW-17 MW-18 MW-19 MW-20 MW-21 MW-22 MW-23D

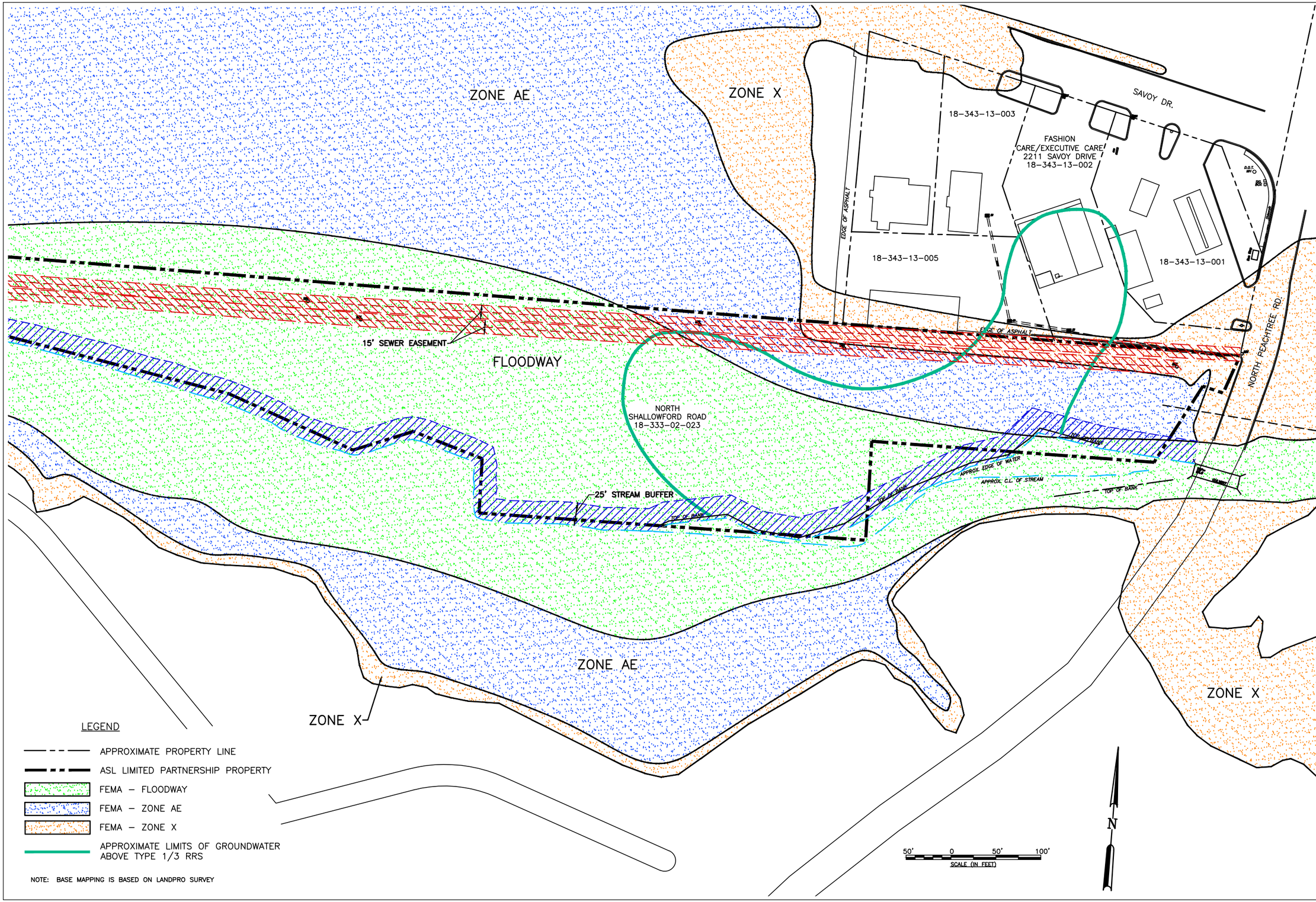
Drawn By: GHA	Date: 12-11-12
Checked by: LD	Project No.

Woodard & Curran
2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
770-622-6766

WOODARD & CURRAN

FIGURE 2
JULY 2012 GROUNDWATER DATA MAP

FASHION CARE/EXECUTIVE CARE VRP SITE (HSI #10786)
2211 SAVOY DRIVE
CHAMBLEE, GA 30341



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Duluth, Georgia 30097
770.622.6766 | www.woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WOODARD & CURRAN

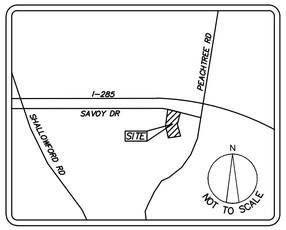
ENCUMBRANCES TO DEVELOPMENT
TAX PARCEL 18-333-02-023

DESIGNED BY:
DRAWN BY: BRM
CHECKED BY:
FEMA MAP.DWG

FASHION CARE/EXECUTIVE CARE SITE

2211 SAVOY DRIVE
CHAMBLEE, GA 30341

JOB NO: 226203
DATE: 6-6-2013
SCALE: AS SHOWN



VICINITY MAP

LEGEND

APPROXIMATE PROPERTY LINE

SD-1 SEDIMENT SAMPLE LOCATION

MW-17 ABANDONED MONITORING WELL

SW-1 SURFACE WATER SAMPLING LOCATION

FMW-15 [80.95] GROUNDWATER SAMPLE LOCATION [GROUNDWATER ELEVATION]

GROUNDWATER ELEVATION CONTOUR, MSL (DASHED WHERE INFERRED). ARROW DENOTES FLOW DIRECTION.

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

0 30 60
SCALE IN FEET

N

SAVOY DR.

2201 SAVOY DRIVE
18-343-13-003

FASHION CAR/EXECUTIVE CARE
2211 SAVOY DRIVE
18-343-13-002

4306 NORTH PEACHTREE ROAD
18-343-13-005

4308 NORTH PEACHTREE ROAD
18-343-13-001

NORTH SHALLOWFORD ROAD
18-333-02-023

NORTH PEACHTREE RD.

RESTAURANT

RESTAURANT

FASHION CLEANERS DRYCLEANERS

RESTAURANT

RETAIL / DENTIST

UST Area

Canopy

Fuel Pumps

Shed

EZ-Serve Car Station Bldg. No. 4308

FF=110.00

Car Wash

Bus Stop

Sidewalk

D.O.T. MH

SIG. BOX

EDGE OF ASPHALT

24"RCP

Sign

MH

NANCY CREEK

C.L. CREEK

TOP OF BANK

EDGE OF WATER

CULVERT

TOP= 94.6

SD-1

SEDIMENT SAMPLE COLLECTED DOWN STREAM IN FROM OF CULVERT UNDER SHALLOWFORD ROAD

FMW-1 [83.62]
FMW-2 [83.62]
FMW-3 [83.81]
FMW-4 [83.31]
FMW-5 [82.40]
FMW-6 [82.24]
FMW-7 [83.21]
FMW-8 [83.50]
FMW-9 [82.37]
FMW-10 [82.15]
FMW-11 [82.39]
FMW-12 [83.01]
FMW-13 [82.13]
FMW-14 [81.15]
FMW-15 [80.95]
FMW-16 [80.57]
SB-24 [83.86]
SB-25 [83.70]
SB-26 [85.53]
SG-2
SW-1
SW-2
SW-3
SD-3
MW-1
MW-3
MW-4R
MW-8
MW-9R
MW-10R
MW-11
MW-12
MW-13
MW-14
MW-15
MW-16
MW-17
MW-18
MW-19
MW-20
MW-21
MW-22
MW-23D
MW-28

81
82
83
83.5
84
85

Drawn By: GHA	Date: 12-11-12
Checked by: LD	Project No.

Woodard & Curran
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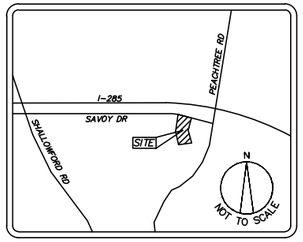
FIGURE 4
POTENTIOMETRIC SURFACE MAP – JULY 10, 2012

FASHION CARE/EXECUTIVE CARE VRP SITE (HSI #10786)
2211 SAVOY DRIVE
CHAMBLEE, GA 30341



VICINITY MAP

LEGEND

- APPROXIMATE PROPERTY LINE
- MW-8 [83.64] (BDL) — MONITORING WELL [GROUNDWATER ELEVATION] (CONTAMINANT CONCENTRATION)
- SD-1 — SEDIMENT SAMPLE LOCATION
- 84' — GROUNDWATER ISOCONTOUR

0 30 60
SCALE IN FEET

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

N

SAVOY DR.

2201 SAVOY DRIVE
18-343-13-003

FASHION CAR/EXECUTIVE CARE
2211 SAVOY DRIVE
18-343-13-002

RESTAURANT

RESTAURANT

FASHION CLEANERS DRYCLEANERS

RESTAURANT

4306 NORTH PEACHTREE ROAD
18-343-13-005

RETAIL / DENTIST

EDGE OF ASPHALT

EDGE OF ASPHALT

24"RCP

NORTH SHALLOWFORD ROAD
18-333-02-023

NORTH PEACHTREE RD.

4308 NORTH PEACHTREE ROAD
18-343-13-001

UST Area

Shed

EZ-Serve Gas Station Bldg. No. 438

FF=100.00

Car Wash

Canopy

Fuel Pumps

Bus Stop

Sidewalk

D.O.T. MH

SIG. BOX

Sign

MH

NANCY CREEK

C.L. CREEK

TOP OF BANK

EDGE OF WATER

CULVERT

TOP= 94.6

SD-1

SD-3

SEDIMENT SAMPLE COLLECTED DOWN STREAM IN FROM OF CULVERT UNDER SHALLOWFORD ROAD

MW-2R
MW-22
MW-15
MW-21
MW-3
MW-16
MW-1
MW-11
MW-20
MW-17
MW-19
MW-18
MW-4R
MW-8
MW-10R
MW-9R
MW-23D
MW-14
MW-13
MW-12
SB-24 [90.24]
SB-25 [86.06]
SB-26 [87.93]
FMW-1 [85.87]
FMW-2 [85.99]
FMW-3 [85.60]
FMW-4 [85.36]
FMW-5 [84.10]
FMW-6 [83.27]
FMW-7 [85.06]
FMW-8 [85.85]
FMW-9 [83.05]
FMW-10 [83.40]
FMW-11 [83.30]
FMW-12 [83.32]
FMW-13 [83.60]
FMW-14 [82.57]
FMW-15 [83.18]
FMW-16 [81.94]
FMW-17 [82.90]
OLD FMW-17
SW-1
SW-2
SW-3
SW-9 [82.37]
SW-11 [82.64]
SW-14 [81.87]
SG-2

84' 85' 86' 87' 88' 89' 90' 83' 82'

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Duluth, Georgia 30097
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WOODARD & CURRAN

COMMITMENT & INTEGRITY DRIVE RESULTS

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REV	DESCRIPTION	DATE

DESIGNED BY:
DRAWN BY:
CHECKED BY:
04-2013 GW CONTOURS.DWG

FIGURE 5
POTENTIOMETRIC SURFACE MAP
APRIL 2, 2013

FASHION CARE
EXECUTIVE CARE SITE

2211 SAVOY DRIVE
CHAMBLEE, GA 30341

JOB NO.:
DATE:
SCALE:
SHEET: OF

Figure 6
Flow Chart – Voluntary Investigation & Remediation Plan Tasks
(Completed tasks are noted.)

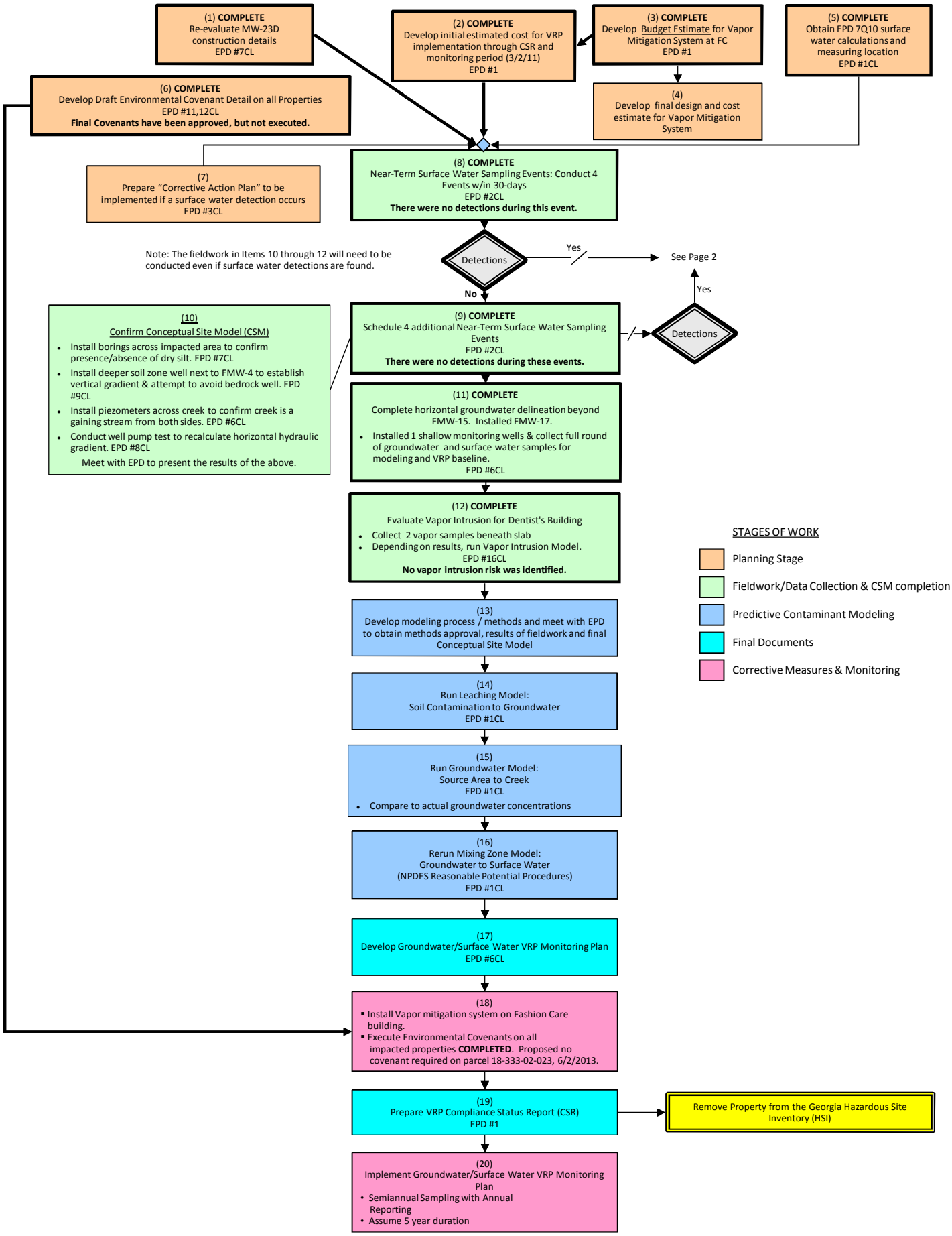
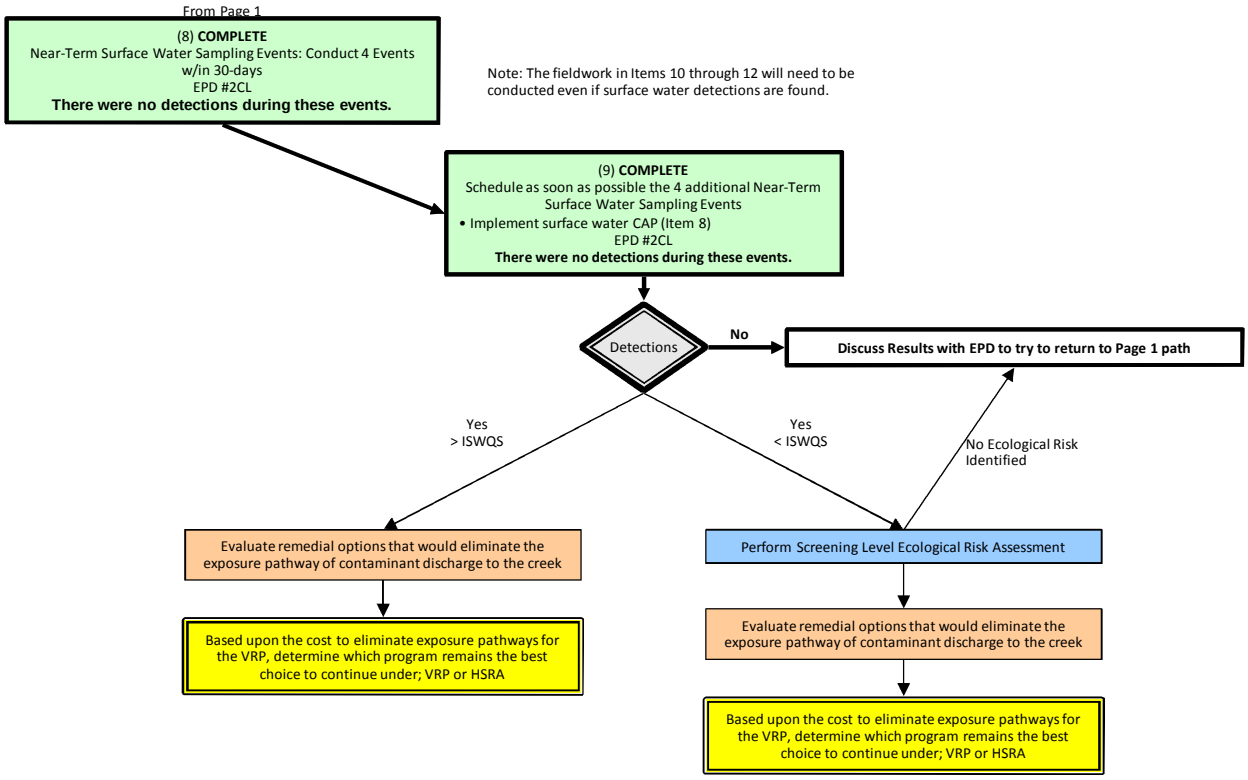
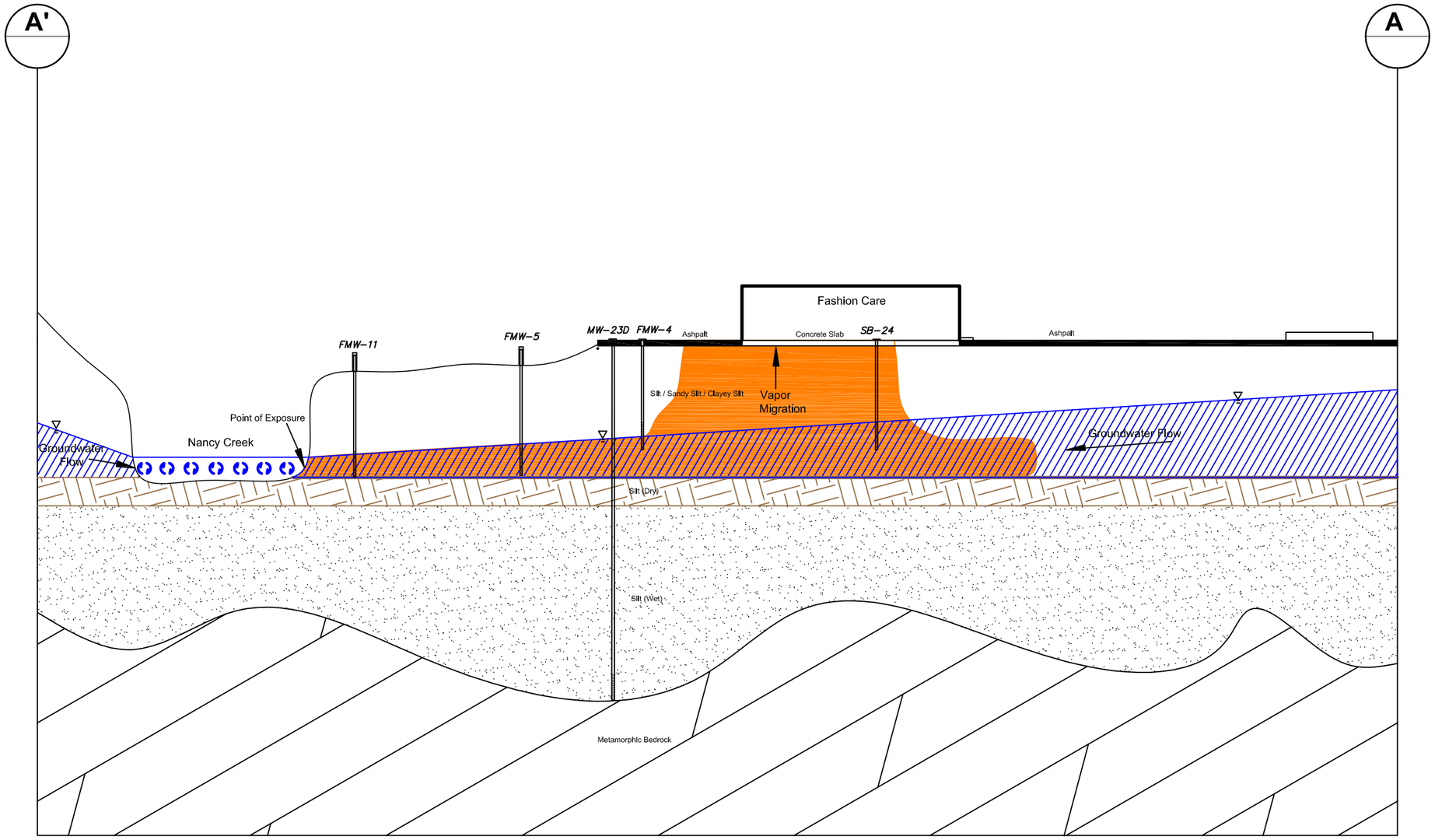


Figure 6 Contd.

Flow Chart – Voluntary Investigation & Remediation Plan Tasks

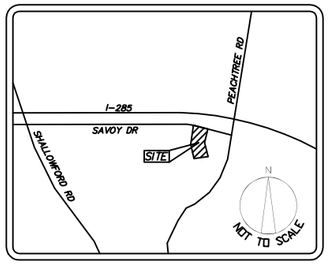


ISWQS = Georgia In-Stream Water Quality Standards



0' 30' 60' 90'

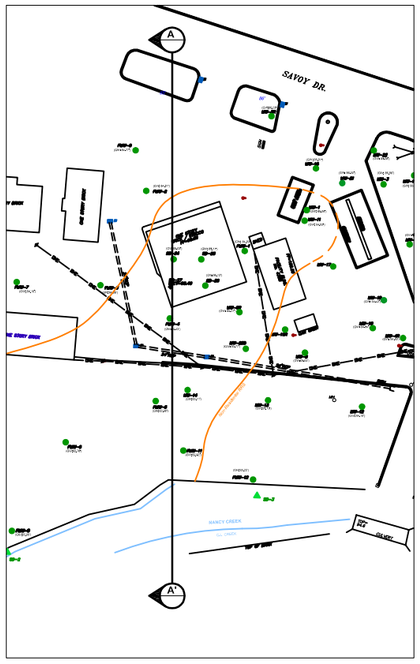
Approximate HORIZONTAL SCALE



VICINITY MAP

LEGEND

- Impacted Soil
- Impacted Groundwater
- Groundwater



Referenced Drawing is Based off of Landpro Survey

PROJECT NO.	DRAWN	DATE
08096	GTM	6/28/10

WOODARD & CURRAN

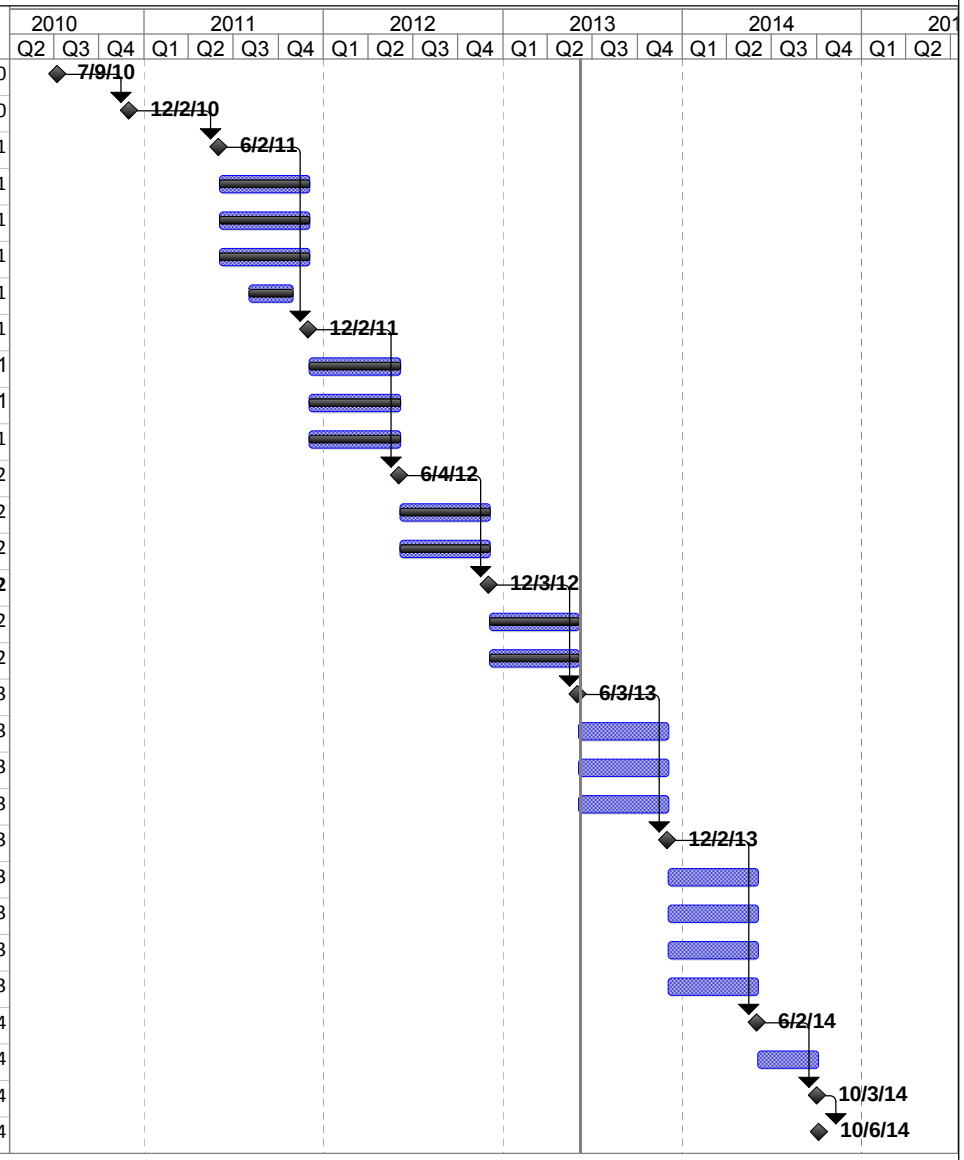
Figure 7
Conceptual Site Model
Fashion Care / Executive Care Site
2211 Savoy Dr
Chamblee, GA 30341

Figure 8

Estimated Voluntary Remediation Plan Schedule

Fashion Care/Executive Care Site, 2211 Savoy Drive, Chamblee, Georgia

ID	Task Name	Duration	Start
1	**VIRP Application Submittal**	0 days	Fri 7/9/10
2	**EPD Approval of VIRP**	0 days	Thu 12/2/10
3	**1st VIRP Status Report**	0 days	Thu 6/2/11
4	Vapor Sampling Evaluation/J&E Modeling	132 days	Thu 6/2/11
5	Revise Draft Ecs	132 days	Thu 6/2/11
6	Final Design for Vapor Mitigation System	132 days	Thu 6/2/11
7	Conduct 8 Surface Water Sampling Events	65 days	Mon 8/1/11
8	**2nd VIRP Status Report**	0 days	Fri 12/2/11
9	Finalize J&E Vapor Models	132 days	Fri 12/2/11
10	Finalize Utility & Construction Worker Standards	132 days	Fri 12/2/11
11	Finalize Environmental Covenants	132 days	Fri 12/2/11
12	**3rd VIRP Status Report**	0 days	Mon 6/4/12
13	Full Round of Groundwater & Surface Water Samples	131 days	Mon 6/4/12
14	Execute Environmental Covenants (2 of 3)	131 days	Mon 6/4/12
15	**4th VIRP Status Report**	**0 days**	**Mon 12/3/12**
16	Attempt to Execute ASL Environmental Covenant	131 days	Mon 12/3/12
17	Complete Horizontal Groundwater Delineation	131 days	Mon 12/3/12
18	**5th VIRP Status Report**	0 days	Mon 6/3/13
19	Prepare Surface Water CAP	131 days	Mon 6/3/13
20	Fieldwork to Confirm CSM	131 days	Mon 6/3/13
21	Complete Filing of Environmental Covenants	131 days	Mon 6/3/13
22	**6th VIRP Status Report**	0 days	Mon 12/2/13
23	Install Vapor Mitigation System - Fashion Care Building	131 days	Mon 12/2/13
24	Complete Vertical Groundwater Delineation	131 days	Mon 12/2/13
25	Site Fate & Transport modeling	131 days	Mon 12/2/13
26	Prepare VRP Groundwater & Surface Water Monitoring Plan	131 days	Mon 12/2/13
27	**7th VIRP Status Report**	0 days	Mon 6/2/14
28	Prepare VRP CSR	90 days	Mon 6/2/14
29	**Submit VRP CSR**	0 days	Fri 10/3/14
30	**Implement Groundwater & Surface Water Monitoring Plan**	0 days	Mon 10/6/14



Appendix A
Sump Repair Photographs

Photo Number: 1	View Direction: Inside Fashion Care Building	Date: January 2013
Description: Small sump after re-sealing.		

Photo Number: 2	View Direction: Inside Fashion Care Building	Date: January 2013
Description: Large sump after re-sealing.		

Appendix B
Boring, Monitoring Well Construction and Groundwater Sampling Logs

Soil Boring Log

WOODARD &CURRAN

Boring ID: FMW-17

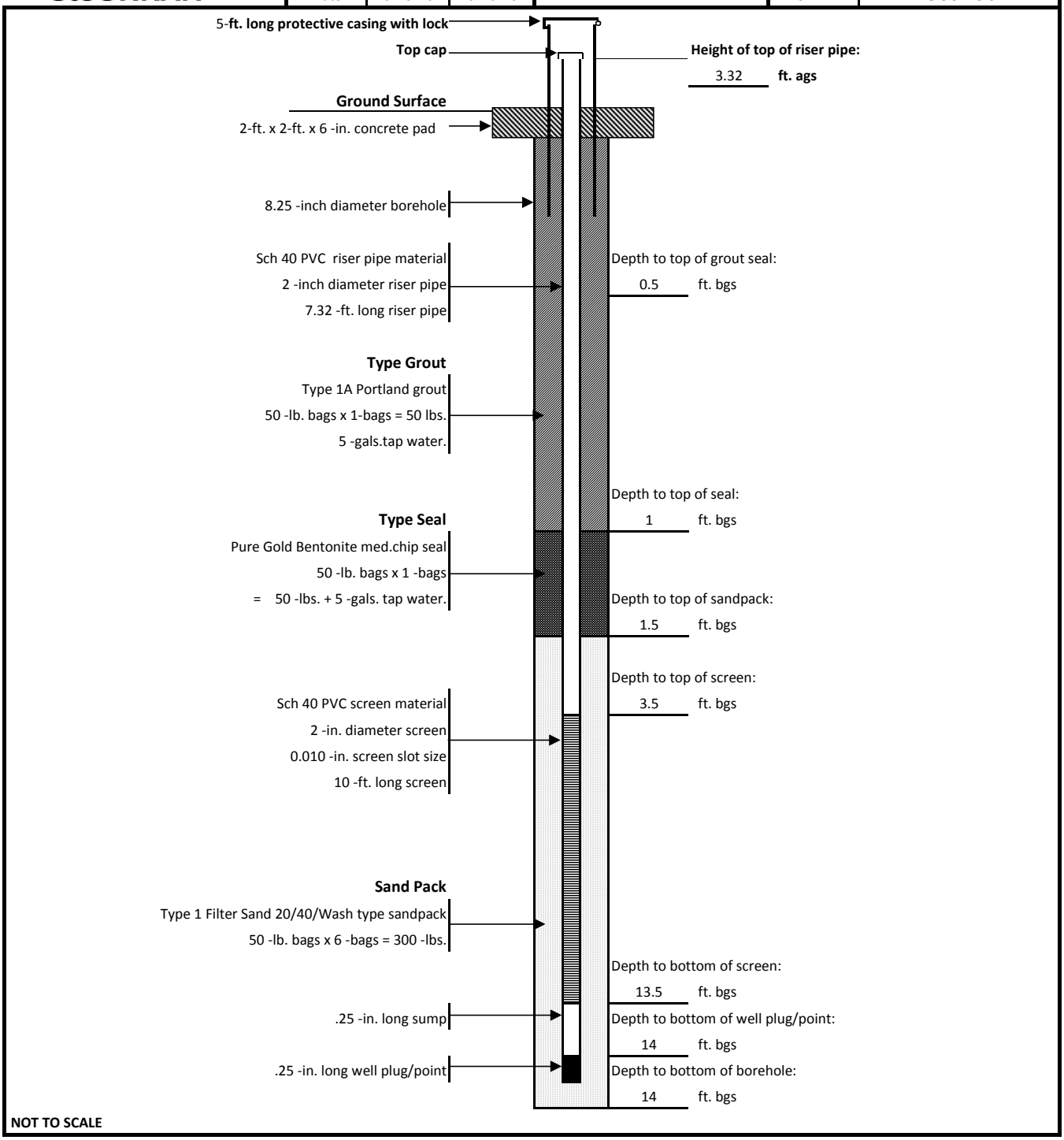
Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	3/28/13
Location:	Chamblee GA	Date Completed:	3/28/13
Driller:	Geo Lab	Field Oversight:	LJD/JDK
DTW:	7.5'	Final Depth:	24.5'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish-brown micaceous Silt(Fill), Moist	20%		No Odor or visible impacts
5	Gray Clay, Moist	60%		
	▽ Gray silty med-course SAND, Wet (WTATOB~7.5') sub-angular quartz pebbles	60%		
10				
15	Reddish-brown clay SILT, Hard. Relict rock striations, Dry-Moist Dryer w/depth	100%		
20		100%		
25	Refusal Boring Terminated @ 24.5			
30				
35				
40				

MONITOR WELL LOG - STICKUP

	Constr. Start	Constr. Finish
Time	9:00	11:30
Date	3/28/13	3/28/13

Well ID:	FMW-17
Project No:	226203.00
Geol./Eng:	LJD/JDK
Driller:	Geo Lab



NOT TO SCALE

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-17		Date:	3/29/2013
Well Diameter:	2"	(inches)	Measuring Pt:	No
Total Depth (TD):	17.32	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	8.84	(ft)	Weather:	Clear Warm
Water Column Height (CH):	8.48	(ft) = TD - GW	Additional Notes:	
Well Volume:	1.38	(gals)		
Total Liters Purged:	4.05	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
9:40	90mL/min	8.99	13.33	0.22	62.00	5.28	-112.00	N/A	CL
9:45	90mL/min	8.99	13.32	0.23	51.80	5.40	-147.10	N/A	CL
9:50	90mL/min	8.99	13.40	0.24	39.20	5.50	-169.20	N/A	SC
9:55	90mL/min	8.99	13.36	0.24	43.10	5.53	-182.10	N/A	SC
10:00	90mL/min	8.99	13.39	0.24	43.90	5.54	-185.10	N/A	SC
10:05	90mL/min	8.99	13.44	0.24	41.30	5.57	-195.10	N/A	SC
10:10	90mL/min	8.98	13.63	0.24	35.20	5.60	-207.10	N/A	AC
10:15	90mL/min	8.98	13.62	0.24	35.60	5.63	-215.10	N/A	AC
10:20	90mL/min	8.98	13.71	0.24	35.60	5.65	-222.10	N/A	AC
10:25	90mL/min	8.98	13.89	0.24	35.40	5.66	-221.10	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

A peristaltic pump was used to collect samples using USEPA low flow/low stress method.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 1030

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2 - 40mL VOAs	HCL	TCL - VOCs	N/A	N/A	N/A	N/A

Note sample time, parameters, duplicates, field blanks, etc.

Appendix C
FMW-17 Laboratory Data Report

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

April 04, 2013

Len Diprima
Woodard & Curran
2055 Sugarloaf Cir #175
Duluth GA 30097

TEL: (770) 622-6766
FAX: (770) 396-0095

RE: Fashion Care

Dear Len Diprima: Order No: 1303O29

Analytical Environmental Services, Inc. received 1 samples on 3/29/2013 11:06:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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

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

Chantelle Kanhai
Project Manager

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

CHAIN OF CUSTODY

Work Order: 1303029

Date: 3-29-13 Page 1 of 1

COMPANY: Woodard & Curran

ADDRESS: 2055 Sugarloaf Circle / Suite 175, Duluth GA 30097

PHONE: 770.622.6766

FAX: 770.396.0095

SAMPLED BY:

SIGNATURE:

ANALYSIS REQUESTED: TCL VOCs

PRESERVATION (See codes): H

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	TCL VOCs (H)	REMARKS	No # of Containers
1	FMW-17	3-29-13	1030	Y		GW	X		2
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: [signature]	3-29-13 / 1106	1: [signature]	3/29/13 11:06
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: Fashion Care
PROJECT #: 0226203.00
SITE ADDRESS: 2211 Savoy Dr Atlanta GA.
SEND REPORT TO: Ken Dipirima
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers: 2

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

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

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

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

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc **Date:** 4-Apr-13

Client:	Woodard & Curran	**Client Sample ID:**	FMW-17
Project Name:	Fashion Care	**Collection Date:**	3/29/2013 10:30:00 AM
Lab ID:	1303O29-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,1-Dichloroethane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,1-Dichloroethene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,2-Dibromoethane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,2-Dichloroethane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,2-Dichloropropane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
2-Butanone	BRL	50		ug/L	174318	1	04/03/2013 17:52	YT
2-Hexanone	BRL	10		ug/L	174318	1	04/03/2013 17:52	YT
4-Methyl-2-pentanone	BRL	10		ug/L	174318	1	04/03/2013 17:52	YT
Acetone	BRL	50		ug/L	174318	1	04/03/2013 17:52	YT
Benzene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Bromodichloromethane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Bromoform	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Bromomethane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Carbon disulfide	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Carbon tetrachloride	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Chlorobenzene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Chloroethane	BRL	10		ug/L	174318	1	04/03/2013 17:52	YT
Chloroform	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Chloromethane	BRL	10		ug/L	174318	1	04/03/2013 17:52	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Cyclohexane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Dibromochloromethane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Dichlorodifluoromethane	BRL	10		ug/L	174318	1	04/03/2013 17:52	YT
Ethylbenzene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Freon-113	BRL	10		ug/L	174318	1	04/03/2013 17:52	YT
Isopropylbenzene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
m,p-Xylene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Methyl acetate	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Methylcyclohexane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Methylene chloride	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
o-Xylene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 4-Apr-13

Client:	Woodard & Curran	**Client Sample ID:**	FMW-17
Project Name:	Fashion Care	**Collection Date:**	3/29/2013 10:30:00 AM
Lab ID:	1303O29-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Tetrachloroethene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Toluene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Trichloroethene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Trichlorofluoromethane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Vinyl chloride	BRL	2.0		ug/L	174318	1	04/03/2013 17:52	YT
Surr: 4-Bromofluorobenzene	81.2	64.6-123		%REC	174318	1	04/03/2013 17:52	YT
Surr: Dibromofluoromethane	102	76.6-133		%REC	174318	1	04/03/2013 17:52	YT
Surr: Toluene-d8	96.5	77.8-120		%REC	174318	1	04/03/2013 17:52	YT

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Woodard Work Order Number 1303029

Checklist completed by [signature] 3/29/13
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

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

Cooler #1 3.1 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Analytical Environmental Services, Inc

Date: 4-Apr-13

Client: Woodard & Curran
Project Name: Fashion Care
Workorder: 1303O29

ANALYTICAL QC SUMMARY REPORT

BatchID: 174318

Sample ID: **MB-174318** Client ID: Units: **ug/L** Prep Date: **04/02/2013** Run No: **241283**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **174318** Analysis Date: **04/02/2013** Seq No: **5051315**

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

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 4-Apr-13

Client: Woodard & Curran
Project Name: Fashion Care
Workorder: 1303O29

ANALYTICAL QC SUMMARY REPORT

BatchID: 174318

Sample ID: **MB-174318** Client ID: Units: **ug/L** Prep Date: **04/02/2013** Run No: **241283**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **174318** Analysis Date: **04/02/2013** Seq No: **5051315**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	42.78	0	50	0	85.6	64.6	123	0	0	0	
Surr: Dibromofluoromethane	50.04	0	50	0	100	76.6	133	0	0	0	
Surr: Toluene-d8	47.84	0	50	0	95.7	77.8	120	0	0	0	

Qualifiers:

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

Client: Woodard & Curran
Project Name: Fashion Care
Workorder: 1303O29

ANALYTICAL QC SUMMARY REPORT

BatchID: 174318

Sample ID: **LCS-174318** Client ID: Units: **ug/L** Prep Date: **04/02/2013** Run No: **241283**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **174318** Analysis Date: **04/02/2013** Seq No: **5051314**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	49.83	5.0	50	0	99.7	61.1	142	0	0	0	
Benzene	51.10	5.0	50	0	102	73.5	130	0	0	0	
Chlorobenzene	45.82	5.0	50	0	91.6	72.4	123	0	0	0	
Toluene	49.24	5.0	50	0	98.5	73.6	130	0	0	0	
Trichloroethene	44.44	5.0	50	0	88.9	70	135	0	0	0	
Surr: 4-Bromofluorobenzene	53.36	0	50	0	107	64.6	123	0	0	0	
Surr: Dibromofluoromethane	50.54	0	50	0	101	76.6	133	0	0	0	
Surr: Toluene-d8	50.32	0	50	0	101	77.8	120	0	0	0	

Sample ID: **1303P45-013AMS** Client ID: Units: **ug/L** Prep Date: **04/02/2013** Run No: **241283**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **174318** Analysis Date: **04/02/2013** Seq No: **5053010**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	631.9	50	500	0	126	60	168	0	0	0	
Benzene	537.8	50	500	15.90	104	66.6	148	0	0	0	
Chlorobenzene	455.6	50	500	0	91.1	71.9	135	0	0	0	
Toluene	539.0	50	500	43.60	99.1	68	149	0	0	0	
Trichloroethene	488.4	50	500	21.90	93.3	71.1	154	0	0	0	
Surr: 4-Bromofluorobenzene	545.5	0	500	0	109	64.6	123	0	0	0	
Surr: Dibromofluoromethane	515.0	0	500	0	103	76.6	133	0	0	0	
Surr: Toluene-d8	502.0	0	500	0	100	77.8	120	0	0	0	

Sample ID: **1303P45-013AMSD** Client ID: Units: **ug/L** Prep Date: **04/02/2013** Run No: **241283**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **174318** Analysis Date: **04/02/2013** Seq No: **5053012**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	588.8	50	500	0	118	60	168	631.9	7.06	18.6	
Benzene	531.3	50	500	15.90	103	66.6	148	537.8	1.22	20	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 4-Apr-13

Client: Woodard & Curran
Project Name: Fashion Care
Workorder: 1303O29

ANALYTICAL QC SUMMARY REPORT

BatchID: 174318

Sample ID: **1303P45-013AMSD** Client ID: Units: **ug/L** Prep Date: **04/02/2013** Run No: **241283**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **174318** Analysis Date: **04/02/2013** Seq No: **5053012**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	444.3	50	500	0	88.9	71.9	135	455.6	2.51	20	
Toluene	541.6	50	500	43.60	99.6	68	149	539.0	0.481	20	
Trichloroethene	468.5	50	500	21.90	89.3	71.1	154	488.4	4.16	20	
Surr: 4-Bromofluorobenzene	534.8	0	500	0	107	64.6	123	545.5	0	0	
Surr: Dibromofluoromethane	533.1	0	500	0	107	76.6	133	515.0	0	0	
Surr: Toluene-d8	516.3	0	500	0	103	77.8	120	502.0	0	0	

Qualifiers:

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

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COMMITMENT & INTEGRITY DRIVE RESULTS

APPENDIX C – SOIL BORING LOGS, WELL CONSTRUCTION LOGS, GROUNDWATER SAMPLING LOGS

Soil Boring Log

Boring ID: **CK-HA-1**
Nancy Creek

Project:	Fashion Care Cleaners	Elevation:	
Project No:	226203	Date started:	9/9/2014
Location:	2211 Savoy Drive, Chamblee, GA	Date Completed:	9/9/2014
Driller:	Hand Auger	Field Oversight:	LJD
DTW:	NA	Final Depth:	2.5 ft

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	PID (ppm)	Remarks
0	Surface Water-Base of creek 1' below water surface		No samples collected	No readings collected	This boring was located slightly upstream of FMW-11. Surface water level and flow normal. Boring located in an erosional bend of the creek with no sediment accumulation. Exposed bank was a reddish-brown, sandy to clayey SILT.
	Grey, clayey SILT				
5	Reddish-brown, poorly sorted, sub-angular to well-rounded very coarse SAND w/large sub-angular to well-rounded pebbles				
	Hand auger boring termiated at approx. 2.5 ft.				
10					
15					
20					
25					
30					
35					

Soil Boring Log

Boring ID **CK-HA-2**
Nancy Creek

Project:	Fashion Care Cleaners	Elevation:	
Project No:	226203	Date started:	9/9/2014
Location:	2211 Savoy Drive, Chamblee, GA	Date Completed:	9/9/2014
Driller:	Hand Auger	Field Oversight:	LJD
DTW:	NA	Final Depth:	1.5 ft

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	PID (ppm)	Remarks
0	Surface Water-Base of creek 2' below water surface		No samples collected	No readings collected	This boring was located downstream of FMW-9, estimated due south of FMW-13. Surface water level and flow normal. Boring located in an erosional bend of the creek with some sediment accumulation.
	Grey, clayey SILT				
5	Hand auger boring termiated at approx. 2.5 ft.				
10					
15					
20					
25					
30					
35					

Soil Boring Log

Boring ID: FMW-1

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	9/3/08
Location:	Immediately east of dry cleaner	Date Completed:	9/3/08
Driller:	Atlas Geo Sampling	Field Oversite:	Joe King/L. Diprima
DTW:	18' Final Depth: 25'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt/Gravel 4 inches			
	Reddish Brown White silty SAND, fine-med, moist	80%		Petroleum smell in the boring. No soil samples collected
5	Brown Tan silty SAND, fine-med, moist	100%		
	Brown Tan Green silty CLAY, moist	100%		
10	Red Tan mottled clayey SILT, moist	100%		
15	Tan Gray silty CLAY, moist ▽ WT~18' Tan Gray silty SAND, fine-med, WET	100%		
20	Reddish Brown mottled silty SAND to clayey SILT, WET	100%		
25	Boring Terminated @ 25' BLS			
30				
35				
40				

Soil Boring Log

Boring ID: FMW-2

WINTER ENVIRONMENTAL

Project: Fashion Care
Project No: 8096
Location: Northeast od dry cleaner
Driller: Atlas Geo Sampling
DTW: 16' Final Depth: 24'

Elevation:
Date started: 9/3/08
Date Completed: 9/3/08
Field Oversite: Joe King/L. Diprima

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt/Gravel 4 inches			
	Reddish Brown clayey SILT, moist	100%		Petroleum smell in boring. No soil samples collected
5	Tan Brown silty CLAY, moist	100%		
	Light Brown Tan Red sandy SILT, moist	100%		
10		100%		
15	▽ WT~16'			
	Tan Red White sandy SILT, WET	100%		
20		100%		
25	Boring Terminated @ 24' BLS			
30				
35				
40				

Soil Boring Log

Boring ID: FMW-3

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	9/3/08
Location:	West of dry cleaner	Date Completed:	9/3/08
Driller:	Atlas Geo Sampling	Field Oversite:	Joe King/L. Diprima
DTW:	15' Final Depth: 20'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt/Gravel 4 inches			No soil sammples collected
	Reddish Brown silty CLAY, moist	100%		
5		100%		
10	Light Brown Tan silty CLAY, moist	100%		
		100%		
15	▽ WT~15' Tan White sandy SILT, WET			
	Reddish Brown silty CLAY, WET	100%		
20	Terminate Boring @20' BLS			
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-4

Project: Fashion Care
Project No: 8096
Location: Outside, immediately south of dry cleaner
Driller: Atlas Geo Sampling
DTW: 14' Final Depth: 20'

Elevation:
Date started: 9/4/08
Date Completed: 9/4/08
Field Oversite: Joe King/L. Diprima

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt/Gravel 4 inches			
	Reddish Brown silty CLAY, moist	80%	0-2'	Sample for VOC's
5	Reddish Tan silty CLAY, moist	80%	4'-8'	Sample For VOC's
10		100%		
	Reddish Brown clayey SILT, moist		11'-13'	Sample For VOC's
	▽ WT~14'	100%		
15	WET			
	Reddish Brown Tan SAPROLITE, WET	100%		
20	Terminate Boring @20' BLS			
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-5

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	9/4/08
Location:	South of dry cleaners	Date Completed:	9/4/08
Driller:	Atlas Geo Sampling	Field Oversite:	Joe King/L. Diprima
DTW:	14' Final Depth: 16'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown Tan silty CLAY, dry	100%		No soil samples collected
5	Reddish Brown silty CLAY, moist	100%		
10	▽ WT~14'	100%		
	WET	100%		
15	Gray silty CLAY, WET			
	Terminate Boring @16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-6

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	9/4/08
Location:	Southwest of dry cleaners	Date Completed:	9/4/08
Driller:	Atlas Geo Sampling	Field Oversite:	Joe King/L. Diprima
DTW:	14' Final Depth: 16'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown Red silty CLAY, dry	100%		No soil samples collected
5	Reddish Brown silty CLAY, micaceous, moist	100%		
10	▽ WT~14'	100%		
15	Reddish Brown silty CLAY, micaceous, WET	100%		
	Terminate Boring @16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-7

Project: Fashion Care
Project No: 8096
Location: West of dry cleaner
Driller: Atlas Geo Sampling
DTW: 11' Final Depth: 18'

Elevation:
Date started: 11/25/08
Date Completed: 11/25/08
Field Oversite: Joe King/L. Diprima

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt/Gravel 4 inches			
	Black Brown silty SAND, fine-med, damp			No soil samples collected
	Red Tan silty CLAY, moist	50%		
5	Red Brown Tan silty CLAY, moist			
	White Tan silty SAND, med., moist	90%		
	Red Tan Brown silty SAND, fine-med, moist			
10	▽ WT~11'	100%		
	Reddish Tan silty SAND, fine-med, WET.			
15		100%		
		100%		
	Boring Terminated @ 18' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-8

Project: Fashion Care
Project No: 8096
Location: Northwest of dry cleaner
Driller: Atlas Geo Sampling
DTW: 13' Final Depth: 20'

Elevation:
Date started: 11/25/08
Date Completed: 11/25/08
Field Oversite: Len Diprima/Joe King

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	4" Asphalt			
	Reddish Brown silty CLAY Fill	50%		No soil samples collected
5	Brown Clayey sandy SILT, strong petroleum odor.	85%		
	(7') Grading to Grey SILT, moist, strong petroleum odor.			
10	Very Moist @12'	100%		
	▽ WT~13'			
15	Grading to Reddish Brown SILT, wet, strong petroleum o odor.	100%		
		100%		
20	Boring Terminated @ 20' BLS			
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-9

Project: Fashion Care
Project No: 8096
Location: Southwest of dry cleaner near creek
Driller: Atlas Geo Sampling
DTW: 8.5' Final Depth: 16'

Elevation:
Date started: 11/25/08
Date Completed: 11/25/08
Field Oversite: Len Diprima/Joe King

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish Brown SILT	45%		No soil samples collected
5	(7') Moist.	60%		
	▽WT~8.5'			
10	8.5' Grey sandy SILT, w/scattered round pebbles, WET	50%		
15	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-10

Project: Fashion Care
Project No: 8096
Location: Southwest of dry cleaner
Driller: Atlas Geo Sampling
DTW: 9' Final Depth: 16'

Elevation:
Date started: 11/25/08
Date Completed: 11/25/08
Field Oversite: Len Diprima/Joe King

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish Brown SILT, mosit	50%		No soil samples collected.
5	Tan Red silty CLAY, moist	80%		
10	▽ WT~9' Reddish Brown with some tan silty SAND, fine-med WET.	100%		
15	Tan Red silty SAND, fine-med WET.	100%		
	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-11

Project: Fashion Care
Project No: 8096
Location: South of dry cleaner
Driller: Atlas Geo Sampling
DTW: 9' Final Depth: 16'

Elevation:
Date started: 11/25/08
Date Completed: 11/25/08
Field Oversite: Len Diprima/Joe King

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish Brown silty CLAY, mosit	50%		No soil samples collected
5		80%		
	▽ WT~9'			
10	Reddish Tan silty CLAY, WET	100%		
15		100%		
	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-12

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	3/17/10
Location:	South of dry cleaner	Date Completed:	3/17/10
Driller:	Atlas Geo Sampling	Field Oversite:	Diprima
DTW:	9' Final Depth: 16'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish Brown SILT, some relict rock structure	60%		No soil samples collected
5	5'-7' clayey SILT	80%		
▽	9' sandy SILT; WET	90%		
10				
	14'-15' Gravel	50%		
15	15'-16' Grey SILT; DRY			
	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-13

Project: Fashion Care
Project No: 8096
Location: South of dry cleaner
Driller: Atlas Geo Sampling
DTW: 9' Final Depth: 16'

Elevation:
Date started: 3/17/10
Date Completed: 3/17/10
Field Oversite: Diprima

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown SILT, moist	50%		No soil samples collected
5	4'-7' clayey SILT; moist	70%		
	7' Grey sandy SILT grading to silty SAND 8' WET			
10	10' Light Green to Reddish Brown SILT relict rock structure; moist	100%		
15		95%		
	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-14

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	5/27/10
Location:	South of dry cleaner	Date Completed:	5/27/10
Driller:	Atlas Geo Sampling	Field Oversite:	Diprima
DTW:	9' Final Depth: 16'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Brown SILT; micaceous	70%		No soil samples collected
5	5' Grey SAND; very coarse to fine, poorly sorted, micaceous, becoming silty with depth (6' WET) angluar sand - residual not deposited	75%		
▽ 10		0%		
15		100%		
	15' Yellowish-Brown SILT; moist			
	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-15

Project: Fashion Care
Project No: 8096
Location: South of dry cleaner
Driller: Atlas Geo Sampling
DTW: 5' Final Depth: 16'

Elevation:
Date started: 6/15/10
Date Completed: 6/15/10
Field Oversite: V Owens/L LeMay

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Grey silty CLAY, moist	70%		No soil samples collected
	WT~5' ▽			
5	Grey SAND, wet slight silt	70%		
10	Hard dry clayey SILT, striations (Saprolite)	100%		
15	Same	100%		
	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-16

Project: Fashion Care
Project No: 8096
Location: South of dry cleaner
Driller: Atlas Geo Sampling
DTW: 6' Final Depth: 16'

Elevation:
Date started: 6/15/10
Date Completed: 6/15/10
Field Oversite: V Owens/L LeMay

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish Brown micacous SILT	80%		No soil samples collected
5	WT~6' ▽	100%		
10	Wet grey silty coarse SAND, angular	80%		
	Orange yellow silty CLAY, dry w/striations	100%		
15	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-17

Project: Fashion Care
Project No: 8096
Location: South of dry cleaner
Driller: Atlas Geo Sampling
DTW: 6' Final Depth: 20'

Elevation:
Date started: 6/15/10
Date Completed: 6/15/10
Field Oversite: V Owens/L LeMay

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish Brown micacous SILT, dry	50%		No soil samples collected
5	WT~6' ▽ Grey gravely coarse SAND, wet	80%		
10	Grey gravely coarse SAND, wet	100%		
15	Same	100%		
20	Brown silty CLAY, dry Boring Terminated @ 20' BLS	100%		
25				
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: FMW-17

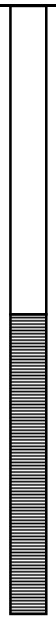
Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	3/28/13
Location:	Chamblee GA	Date Completed:	3/28/13
Driller:	Geo Lab	Field Oversight:	LJD/JDK
DTW:	7.5'	Final Depth:	24.5'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish-brown micaceous Silt(Fill), Moist	20%		No Odor or visible impacts
5	Gray Clay, Moist	60%		
	▽ Gray silty med-course SAND, Wet (WTATOB~7.5') sub-angular quartz pebbles	60%		
10				
15	Reddish-brown clay SILT, Hard. Relict rock striations, Dry-Moist Dryer w/depth	100%		
20		100%		
25	Refusal Boring Terminated @ 24.5			
30				
35				
40				

Soil Boring Log

Boring ID: **MW-18D (well aborted)**

Project:	Fashion Care Cleaners	Elevation:	
Project No:	226203	Date started:	4/22/2014
Location:	2211 Savoy Drive, Chamblee, GA	Date Completed:	4/22/2014
Driller:	GeoLab	Field Oversight:	LJD
DTW:	7 ft. bgs	Final Depth:	33.5 ft. bgs

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	PID (ppm)	Well Completion	Remarks
0	Reddish-brown Silt, moist	20%	No samples collected	No readings collected	 Type III well installation aborted	On 4/22/14 suspected bedrock on refusal at 33.5ft. bgs using solid-stem augers. Borehole temporarily abandoned using bentonite on 4/22/14. 4/24/14 returned with hollow-stem augers. Re-drilled borehole to refusal at 33.5 ft. bgs, used split-spoon to collect small sample of bedrock to confirm type of refusal, tremie-grouted boring with Portland-bentonite slurry to ensure good borehole seal.
5		100%				
	Reddish-brown silty, fine to coarse SAND Wet					
10	13 ft. color change to medium gray	100%				
15	Reddish-brown SILT, dense, moist	80%				
20	19.5 ft. Silt becoming dry, very dense	Solid stem augers required beginning at 20 ft. bgs due to DPT refusal. Down-pressure and cuttings used to identify lithology/lithologic changes.				
25						
30	Bedrock at 33.5 ft. immediately below SILT Mica-Garnet Greenschist					
35	Boring Terminated at 33.5 ft. bgs - Refusal					

Soil Boring Log

Boring ID: SB-28

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	5/8/09
Location:	Immediately east of dry cleaner	Date Completed:	5/8/09
Driller:	Atlas Geo Sampling	Field Oversite:	Greg Muse
DTW:	10' Final Depth: 12'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt 3"			
	Reddish Brown silty CLAY, moist at 2' and below	70%	0'-2'	
5		75%	4'-6'	
	Reddish Brown clayey sandy SILT, moist			
10	▽ WT~10	100%	8'-10'	
	Greenish Brown clayey SILT,moist,wet @ 10'			
	Boring Terminated @ 12' BLS			
15				
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: SB-29

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	5/8/09
Location:	Immediately east of dry cleaner	Date Completed:	5/8/09
Driller:	Atlas Geo Sampling	Field Oversite:	Greg Muse
DTW:	9.5' Final Depth: 12'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Concrete 4"			
	Clay Fill		0'-2'	
	Reddish Brown silty CLAY, moist	65%		
5		90%	4'-6'	
	Reddish Brown clayey sandy SILT, moist		7.5'-9.5'	
10	▽WT~9.5'	100%		
	Boring Terminated @ 12' BLS			
15				
20				
25				
30				
35				
40				

Soil Boring Log

WINTER ENVIRONMENTAL

Boring ID: SB-30

Project: Fashion Care
Project No: 8096
Location: Immediately east of dry cleaner
Driller: Atlas Geo Sampling
DTW: 10.5' Final Depth: 12'

Elevation:
Date started: 5/8/09
Date Completed: 5/8/09
Field Oversite: Greg Muse

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Concrete 4"			
	Clay fill some gravel	70%	0'-2'	
5	Reddish Brown silty CLAY, moist,wet	100%	4.5'-6.5'	
	Greenish Brown clayey SILT,moist,wet 10.5'	75%	8.5-10.5'	
10	▽ WT~10.5			
	Boring Terminated @ 12' BLS			
15				
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: SB-31

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	5/8/09
Location:	Immediately east of dry cleaner	Date Completed:	5/8/09
Driller:	Atlas Geo Sampling	Field Oversite:	Greg Muse
DTW:	9.5' Final Depth: 12'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Concrete 4"			
	Clay Fill		0'-2'	
	Reddish Brown silty CLAY, moist	65%		
5		90%	4'-6'	
	Reddish Brown clayey sandy SILT, moist		7.5'-9.5'	
10	▽WT~9.5'	100%		
	Boring Terminated @ 12' BLS			
15				
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: SB-32

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	5/8/09
Location:	Immediately east of dry cleaner	Date Completed:	5/8/09
Driller:	Atlas Geo Sampling	Field Oversite:	Greg Muse
DTW:	8' Final Depth: 12'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Concrete			
	Reddish Brown silty Clay, moist	70%	0'-2'	
			3.5'-5.5'	
5		100%	6'-8'	
	▽WT~8 Reddish Brown clayey sandy Silt, moist to wet	95%		
10				
	Boring Terminated @ 25' BLS			
15				
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: SB-33

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	5/8/09
Location:	Immediately east of dry cleaner	Date Completed:	5/8/09
Driller:	Atlas Geo Sampling	Field Oversite:	Greg Muse
DTW:	9' Final Depth: 12'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Concrete			
	Reddish Brown silty CLAY, moist	90%	0'-2'	
5		70%	4'-6'	
	Yellow Brown clayey,sandy SILT moist to wet ▽ WT~9	95%	7'-9'	
10				
	Boring Terminated @ 25' BLS			
15				
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: SB-34

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	5/18/09
Location:	Immediately east of dry cleaner	Date Completed:	5/18/09
Driller:	Atlas Geo Sampling	Field Oversite:	Greg Muse
DTW:	7' Final Depth: 8'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish Brown silty CLAY, moist	70%	0'-2'	
			2.5'-4.5'	
5		80%		
	▽ WT~7 Tan sandy silty CLAY		5'-7'	
	Boring Terminated @ 8' BLS			
10				
15				
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-37

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	Diprima/King
DTW:	7.5'	Final Depth:	35'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt			There is approx. 10' of dry silt at this location from 23'-33'
	Reddish Brown to tan silty CLAY - moist	65%		Boring was sealed w/hydrated bentonite
5		90%		
▽	Light gray SAND - saturated (7.5')			
	Brown to Dark grey silty CLAY to clayey SILT - moist			
10		100%		
15				
	Light Gray silty SAND - wet	80%		
	Reddish Brown to tan SILT- moist			
20	Becoming Dry @ 23'			
	Dense material	95%		
25		95%		
30		100%		
	Becoming moist @ 34'			
35	Boring Terminated @ 35'			
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-38

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	Diprima/King
DTW:	12'	Final Depth:	33'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt			Solvent odor in boring
	Reddish Brown to Brown clayey SILT - moist	75%		Dry silt from 23' to refusal.
5	Grading to Lt Gray to Gray SILT- moist	60%		Boring was sealed w/hydrated bentonite
10	Saturated @ 12'	100%		
15	Becoming Dry @ 18'	95%		
20	21'-23' wet 23'-27' dry	75%		
25	27'-28.5' wet	100%		
	28.5'-33' Reddish-brown dry dense SILT	100%		
30	Refusal @ 33'			
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-39

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	Diprima/King
DTW:	15'	Final Depth:	33.5'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt			Solvent odor in boring
	Reddish-Brown clayey SILT	50%		Dry silt from 24.3' to refusal. Still dry at refusal.>9' thick
5	Lt Gray SAND - moist	50%		Boring was sealed w/hydrated bentonite
	Brown to Dark Gray clayey SILT - moist			
10	Lt Gray clayey SILT moist	100%		
15 ▽	Lt. Gray SAND - wet @16'	70%		
	Reddish-Brown SILT - moist			
20	24.3'-28' dry	100%		
25	28'-29' moist/wet	100%		
30	29'-33.5' Reddish-brown dry dense SILT	100%		
	Refusal @ 33.5'			
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-40

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	12.5'	Final Depth:	25'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Reddish-Brown clayey SILT - moist	50%		Dry silt from 17' to 25' (termination).
				Boring was sealed w/hydrated bentonite
5				Picture # 1&2
	Reddish Brown sandy SILT - moist	90%		
	Becoming Red to Gray			
10				
	Becoming Red to Tan	70%		
▽	Saturated @ 12.5'			
	Lt. Gray clayey SILT - wet			
15				
	Reddish Brown SILT - wet	70%		
	Reddish-Brown SILT - dry, dense			
20				
	17' to 25' dry	90%		
25				
	Boring Terminated @ 25'			
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-41

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	7.5'	Final Depth:	21'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Reddish-Brown sandy SILT - dry	40%		Dry silt from 17' to 21' (refusal).
				Boring was sealed w/hydrated bentonite
5				Picture # 3
	Becoming Reddish-Gray - moist	85%		
▽	Saturated @ 7.5'			
10		80%		
	Reddish-Brown sandy SILT - moist			
15	Red to Brown SILT - moist	40%		
	Reddish-Brown SILT - dry, dense			
20		10%		
	Refusal @ 21'			
25				
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-42

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	10'	Final Depth:	25'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Reddish-Brown clayey SILT - dry	60%		Dry silt from 17' to 25' (termination).
	Becoming moist			Boring was sealed w/hydrated bentonite
5		90%		Picture # 4
10 ▽	Reddish-Brown sandy SILT- wet, saturated @11'	90%		
15	Reddish-Brown clayey SILT - moist	70%		
	Reddish-Brown SILT - dry, dense	70%		
20				
25	Boring Terminated @ 25'			
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-43

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	9'	Final Depth:	20'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Reddish-Brown sandy SILT - dry	40%		Dry silt from 15' to 20' (termination).
				Boring was sealed w/hydrated bentonite
5	Becoming moist	60%		Picture # 5&6
10	Gray to Tan SAND, course - wet, saturated @ 9' w/pebbles	50%		
	Reddish-Brown SILT - moist			
15	Reddish-Brown SILT - dry, dense	90%		
20	Boring Terminated @ 20'			
25				
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-44

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	7'	Final Depth:	20'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Reddish-Brown clayey SILT - dry	50%		Dry silt from 15' to 20' (termination).
	Becoming moist			Boring was sealed w/hydrated bentonite
5				Picture # 7 is the bottom 0f 10'-15' and 15'-20'
▽	Gray SAND course - wet, saturated @7'	60%		
10	w/some pebbles	70%		
	Tan to Reddish-Brown SILT - moist			
15	Tan to Reddish-Brown SILT - dry, dense	100%		
20	Boring Terminated @ 20'			
25				
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-45

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/8/13
Location:	2211 Savoy Dr	Date Completed:	11/8/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	9'	Final Depth:	25'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Brown to Tan sandy SILT - moist	90%		Dry silt from 17' to 25' (termination).
				Boring was sealed w/hydrated bentonite
5	Becoming Tan to Gray	70%		Picture # 10&11
▽				
10	Reddish-Tan to Gray SAND, course - wet, saturated @ 9'	80%		
	Reddish-Brown clayey SILT - moist			
15		80%		
	Red to Tan to Brown SILT - dry, dense			
20		100%		
25	Boring Terminated @ 25'			
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-46

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/8/13
Location:	2211 Savoy Dr	Date Completed:	11/8/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	7'	Final Depth:	25'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Red to Brown sandy SILT - moist	50%		Dry silt from 18' to 25' (termination).
				Boring was sealed w/hydrated bentonite
5				Picture # 8 & 9
▽	Gray-Black SAND, course w/pebbles - wet, saturated @ 7'	50%		
10		50%		
15	Reddish-Tan clayey SILT - moist	70%		
	Red to Tan SILT - dry, dense			
20		90%		
	Reddish-Black saprolite - dry			
25	Boring Terminated @ 25'			
30				
35				
40				

GENERAL SOIL PROFILE AT BORING LOCATION CK-HA-1

Elevation (relative to arbitrary datum of	Feet BGS	
91.5	0	Ground Surface
		Reddish Brown SILT with varying content of clay and very fine sand
86.5	5	
		(Saturated approx. 7.5-8 ft BGS)
	SW	(Approx. average surface water elevation 83.16 ft; Approx. Base of Creek, 1 ft below SW at boring CK-HA-1)
81.5	BOC 10	
		Reddish-brown, poorly sorted, sub-angular to well- rounded very coarse SAND w/large sub-angular to well-rounded pebbles. Thickness varies from 1-4 ft across site.
		Red to Brown SILT - moist
76.5	15	**Reddish-Brown SILT - dry, dense**
71.5	20	
		Bedrock
	25	

Notes:

Created from boring logs from SB-41, FMW-11, FMW-12 and CK-HA-1.

▼ Top of saturated zone.

SW Approximate surface water elevation during non-storm events.

BOC Approximate base of creek channel on September 9, 2014 at hand auger location relative to top of surface water.

GENERAL SOIL PROFILE AT BORING LOCATION CK-HA-2

Elevation (relative to arbitrary datum of	Feet BGS	
91	0	Ground Surface
86	5	**Reddish Brown SILT with varying content of clay and very fine sand** (Saturated approx. 8.5-9 ft BGS) (Approx. average surface water elevation 82.48 ft; Approx. Base of Creek, 2 ft below SW at boring CK-HA-2)
81	10	**Grey to Tan, poorly sorted, sub-angular to well- rounded very coarse SAND w/large sub-angular to well-rounded pebbles.** Thickness varies from 1-4 ft across site.
76	15	**Red to Brown to Grey SILT - moist**
71	20	**Reddish-Brown SILT - dry, dense**
	25	

Notes:
Created from boring logs from SB-43, FMW-9 and CK-HA-2.
▼ Top of saturated zone.
SW Approximate surface water elevation during non-storm events.
BOC Approximate base of creek channel on September 9, 2014 at hand auger location relative to top of surface water.

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-16	Job Number	8096
Client	Rowan	Date	7/10/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear/Hot	Time In/Out	1055/1230

WELL DATA

Well Depth	15.65	Well Diameter	2"	Water Height	4.90
Depth to Water	10.75	Screened Interval		x Multiplier	0.162
Water Column Length	4.90	Depth to Free Product	N/A	x Casing Volumes	0.79
Total Liters Purge	9 Lt.	Free Product Thickness	N/A	=Purge Volume	2.37
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	13.5	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1130	0.90		10.83	200 mL	4.30	17.82	0.151	10.50	20.50		C
1135	0.90	1.80	10.84	200 mL	4.28	17.61	0.102	13.20	21.30		C
1140	0.90	2.70	10.85	200 mL	4.34	17.53	0.088	13.50	34.70		C
1145	0.90	3.60	10.85	200 mL	4.49	17.37	0.086	12.30	38.70		C
1150	0.90	4.50	10.85	200 mL	4.68	17.35	0.085	11.80	37.10		C
1155	0.90	5.40	10.85	200 mL	4.79	17.31	0.085	11.00	36.00		C
1200	0.90	6.30	10.85	200 mL	4.99	17.44	0.085	10.90	31.10		C
1205	0.90	7.20	10.85	200 mL	5.04	17.36	0.085	10.00	30.50		C
1210	0.90	8.10	10.85	200 mL	5.12	17.41	0.085	9.80	28.60		C
1215	0.90	9.00	10.86	200 mL	5.13	17.36	0.085	9.60	30.20		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-16	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1218	Final Depth to Water	10.80	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-15	Job Number	8096
Client	Rowan	Date	7/10/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear/Hot	Time In/Out	1250/1358

WELL DATA

Well Depth	14.40	Well Diameter	2"	Water Height	3.25
Depth to Water	11.15	Screened Interval		x Multiplier	0.162
Water Column Length	3.25	Depth to Free Product	N/A	x Casing Volumes	0.53
Total Liters Purge	9 Lt.	Free Product Thickness	N/A	=Purge Volume	1.59
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	13	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1300	0.90		11.80	200 mL	5.98	20.97	0.673	20.00	-41.90		CL
1305	0.90	1.80	12.10	200 mL	5.94	20.5	0.656	25.90	-44.10		CL
1310	0.90	2.70	12.56	200 mL	6.01	20.55	0.617	25.00	-40.00		CL
1315	0.90	3.60	12.86	200 mL	6.00	20.29	0.566	26.80	-33.40		CL
1320	0.90	4.50	13.07	200 mL	6.03	20.34	0.52	26.70	-29.10		CL
1325	0.90	5.40	13.20	200 mL	6.01	20.33	0.495	28.20	-22.90		SC
1330	0.90	6.30	13.32	200 mL	6.00	20.24	0.486	27.80	-20.10		SC
1335	0.90	7.20	13.41	200 mL	5.99	20.25	0.48	26.90	-16.60		AC
1340	0.90	8.10	13.32	200 mL	5.99	20.28	0.483	27.80	-13.60		AC
1345	0.90	9.00	13.31	200 mL	5.96	20.21	0.482	28.10	-10.60		AC

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-15	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1348	Final Depth to Water	13.30	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Pump pulling well down faster than the well is recharging

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-13	Job Number	8096
Client	Rowan	Date	7/10/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear/Hot	Time In/Out	1400/1510

WELL DATA

Well Depth	19.50	Well Diameter	2"	Water Height	9.58
Depth to Water	9.92	Screened Interval		x Multiplier	0.162
Water Column Length	9.58	Depth to Free Product	N/A	x Casing Volumes	1.55
Total Liters Purge	7 Lt.	Free Product Thickness	N/A	=Purge Volume	4.65
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	17'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1417	0.87		10.75	200 mL	5.85	18.15	0.103	11.50	125.60		AC
1422	0.88	1.75	11.18	200 mL	4.68	17.68	0.078	7.50	161.50		C
1427	0.87	2.62	11.19	200 mL	4.93	17.55	0.08	7.10	149.10		C
1432	0.88	3.50	11.20	200 mL	5.13	17.56	0.082	8.60	137.10		C
1437	0.87	4.37	11.31	200 mL	5.11	17.3	0.082	10.80	137.10		C
1442	0.88	5.25	11.32	200 mL	5.11	17.39	0.083	12.50	138.10		C
1447	0.87	6.12	11.31	200 mL	5.12	17.28	0.082	12.40	139.10		C
1452	0.88	7.00	11.32	200 mL	5.06	17.19	0.082	12.10	140.10		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-13	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1455	Final Depth to Water	11.25	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-9	Job Number	8096
Client	Rowan	Date	7/10/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear/Hot	Time In/Out	1502/1600

WELL DATA

Well Depth	19.35	Well Diameter	2"	Water Height	7.65
Depth to Water	11.70	Screened Interval		x Multiplier	0.162
Water Column Length	7.65	Depth to Free Product	N/A	x Casing Volumes	1.24
Total Liters Purge	5 Lt.	Free Product Thickness	N/A	=Purge Volume	3.72
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	16'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1517	0.83		12.38	200 mL	5.82	19.18	0.134	10.60	313.10		CL
1522	0.83	1.66	12.39	200 mL	5.37	18.81	0.134	7.20	166.00		CL
1527	0.84	2.50	12.38	200 mL	5.58	18.66	0.134	6.30	137.00		CL
1532	0.83	3.33	12.39	200 mL	5.68	18.71	0.135	6.40	128.00		CL
1537	0.83	4.16	12.38	200 mL	5.66	18.72	0.135	7.00	128.00		CL
1542	0.84	5.00	12.38	200 mL	5.66	18.61	0.134	6.90	128.00		CL

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-9	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1545	Final Depth to Water	12.30	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-1	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Cloudy / Warm	Time In/Out	0720/0808

WELL DATA

Well Depth	25.00	Well Diameter	2"	Water Height	9.70
Depth to Water	15.30	Screened Interval		x Multiplier	0.162
Water Column Length	9.70	Depth to Free Product	N/A	x Casing Volumes	1.57
Total Liters Purge	7 Lt.	Free Product Thickness	N/A	=Purge Volume	4.71
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	22'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
720	0.87		15.55	200 mL	6.17	21.14	0.721	28.40	-14.70		C
725	0.88	1.75	15.56	200 mL	5.89	21	0.421	27.90	-23.10		C
730	0.87	2.62	15.55	200 mL	6.07	20.89	0.404	20.10	-36.20		C
735	0.88	3.50	15.56	200 mL	5.98	20.9	0.302	15.20	-20.10		C
740	0.87	4.37	15.58	200 mL	5.89	20.89	0.274	12.10	-5.10		C
745	0.88	5.25	15.59	200 mL	5.89	20.88	0.276	10.10	-2.30		C
750	0.87	6.12	15.60	200 mL	5.92	20.89	0.285	10.00	-3.70		C
755	0.88	7.00	15.61	200 mL	5.93	20.87	0.286	9.90	-3.90		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-1	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	758	Final Depth to Water	15.50	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-8	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Cloudy / Hot	Time In/Out	0814/0905

WELL DATA

Well Depth	20.30	Well Diameter	2"	Water Height	6.40
Depth to Water	13.90	Screened Interval		x Multiplier	0.162
Water Column Length	6.40	Depth to Free Product	N/A	x Casing Volumes	1.04
Total Liters Purge	7 Lt.	Free Product Thickness	N/A	=Purge Volume	3.12
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	18'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
819	0.87		14.03	200 mL	5.75	22.71	0.138	12.20	102.10		C
824	0.88	1.75	14.05	200 mL	5.39	22.71	0.103	10.30	110.20		C
829	0.87	2.62	14.05	200 mL	5.14	22.85	0.085	8.10	133.20		C
834	0.88	3.50	14.06	200 mL	5.17	22.93	0.09	6.90	132.10		C
839	0.87	4.37	14.08	200 mL	5.16	22.92	0.094	5.90	126.10		C
844	0.88	5.25	14.08	200 mL	5.23	22.87	0.1	5.50	116.10		C
849	0.87	6.12	14.09	200 mL	5.23	22.86	0.104	5.40	111.40		C
854	0.88	7.00	14.08	200 mL	5.25	22.87	0.106	5.20	102.40		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-8	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	857	Final Depth to Water	14.00	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-2	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Cloudy / Warm	Time In/Out	913/1008

WELL DATA

Well Depth	21.30	Well Diameter	2"	Water Height	6.85
Depth to Water	14.45	Screened Interval		x Multiplier	0.162
Water Column Length	6.85	Depth to Free Product	N/A	x Casing Volumes	1.11
Total Liters Purge	8 Lt.	Free Product Thickness	N/A	=Purge Volume	3.33
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	18'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
915			13.50	200 mL	5.51	22.64	0.166	13.40	255.10		C
920			13.51	200 mL	5.08	22.74	0.16	8.40	140.10		C
925			13.52	200 mL	5.23	22.9	0.154	6.70	121.10		C
930			13.51	200 mL	5.35	23.01	0.174	6.30	106.10		C
935			13.52	200 mL	5.30	23.04	0.158	5.60	100.10		C
940			13.51	200 mL	5.19	22.94	0.126	5.00	103.10		C
945			13.52	200 mL	5.13	22.97	0.112	4.60	103.00		C
950			13.51	200 mL	5.11	22.95	0.109	4.40	102.00		C
955			13.52	200 mL	5.12	22.93	0.109	4.30	0.97		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-2	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	958	Final Depth to Water	14.00	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-14	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Cloudy / Hot	Time In/Out	1020/1120

WELL DATA

Well Depth	18.85	Well Diameter	2"	Water Height	7.97
Depth to Water	10.88	Screened Interval		x Multiplier	0.162
Water Column Length	7.97	Depth to Free Product	N/A	x Casing Volumes	1.29
Total Liters Purge	5 Lt.	Free Product Thickness	N/A	=Purge Volume	3.87
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	16'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1042	0.83		10.98	200 mL	5.80	17.03	0.105	18.90	203.10		CL
1047	0.83	1.66	10.98	200 mL	4.81	17.13	0.103	7.40	130.60		CL
1052	0.84	2.50	10.98	200 mL	5.04	17.14	0.101	6.30	11.60		SC
1057	0.83	3.33	10.98	200 mL	5.26	17.08	0.102	5.70	98.70		SC
1102	0.83	4.16	10.99	200 mL	5.36	17.28	0.100	5.50	91.70		AC
1107	0.84	5.00	10.99	200 mL	5.41	17.38	0.099	6.00	92.30		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-14	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1110	Final Depth to Water	10.85	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-10	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Cloudy / Hot	Time In/Out	1122/1211

WELL DATA

Well Depth	19.30	Well Diameter	2"	Water Height	8.60
Depth to Water	10.70	Screened Interval		x Multiplier	0.162
Water Column Length	8.60	Depth to Free Product	N/A	x Casing Volumes	1.39
Total Liters Purge	5 Lt.	Free Product Thickness	N/A	=Purge Volume	4.17
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	17'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1134	0.83		10.60	200 mL	6.13	18.82	0.21	17.30	308.00		AC
1139	0.83	1.66	10.61	200 mL	5.71	19.3	0.2	5.40	33.40		C
1144	0.84	2.50	10.62	200 mL	6.05	19.22	0.235	4.70	-6.40		C
1149	0.83	3.33	10.61	200 mL	6.15	19.05	0.253	4.10	-27.40		C
1154	0.83	4.16	10.62	200 mL	6.20	18.88	0.254	3.80	-37.10		C
1159	0.84	5.00	10.62	200 mL	6.22	18.91	0.254	3.70	-39.10		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-10	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1203	Final Depth to Water	10.50	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-6	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear/Hot	Time In/Out	1215/1255

WELL DATA

Well Depth	18.75	Well Diameter	2"	Water Height	7.87
Depth to Water	10.88	Screened Interval		x Multiplier	0.162
Water Column Length	7.87	Depth to Free Product	N/A	x Casing Volumes	1.27
Total Liters Purge	4Lt.	Free Product Thickness	N/A	=Purge Volume	3.81
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	17'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1222	0.80		10.65	200 mL	5.32	18.59	0.116	9.20	135.00		C
1227	0.80	1.60	10.68	200 mL	5.07	17.60	0.115	4.70	138.40		C
1232	0.80	2.40	10.69	200 mL	5.39	17.65	0.115	6.80	122.10		C
1237	0.80	3.20	10.69	200 mL	5.42	17.66	0.115	6.80	116.10		C
1242	0.80	4.00	10.69	200 mL	5.49	17.60	0.116	6.40	119.10		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-6	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1245	Final Depth to Water	10.50	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-5	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	1300/1420

WELL DATA

Well Depth	18.80	Well Diameter	2"	Water Height	7.19
Depth to Water	13.00	Screened Interval		x Multiplier	0.162
Water Column Length	5.80	Depth to Free Product	N/A	x Casing Volumes	0.94
Total Liters Purge	5 Lt.	Free Product Thickness	N/A	=Purge Volume	2.82
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	17'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1343	0.83		12.98	200 mL	6.08	19.49	0.239	12.80	100.10		C
1348	0.83	1.66	12.99	200 mL	5.87	19.52	0.237	6.30	4.60		C
1353	0.84	2.50	12.98	200 mL	5.86	19.24	0.227	5.40	-1.70		C
1358	0.83	3.33	12.98	200 mL	5.91	19.30	0.22	5.50	-5.70		C
1403	0.83	4.16	12.99	200 mL	5.98	19.28	0.228	5.10	-15.90		C
1408	0.84	5.00	12.98	200 mL	6.00	19.14	0.227	5.20	-21.90		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-5	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1415	Final Depth to Water	13.00	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-11	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	1420/1510

WELL DATA

Well Depth	19.20	Well Diameter	2"	Water Height	7.19
Depth to Water	12.01	Screened Interval		x Multiplier	0.162
Water Column Length	7.19	Depth to Free Product	N/A	x Casing Volumes	1.16
Total Liters Purge	4 Lt.	Free Product Thickness	N/A	=Purge Volume	3.48
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	17'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1445	0.80		12.00	200 mL	5.22	20.79	0.077	12.01	122.10		C
1450	0.80	1.60	12.00	200 mL	4.67	17.69	0.074	6.90	159.10		C
1455	0.80	2.40	12.01	200 mL	4.62	17.52	0.073	5.10	165.10		C
1500	0.80	3.20	12.02	200 mL	4.69	17.51	0.071	4.70	159.10		C
1505	0.80	4.00	12.02	200 mL	4.71	17.53	0.072	4.80	158.20		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-11	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1508	Final Depth to Water	12.01	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-3	Job Number	8096
Client	Rowan	Date	7/12/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	0725/0830

WELL DATA

Well Depth	19.90	Well Diameter	2"	Water Height	7.75
Depth to Water	13.15	Screened Interval		x Multiplier	0.162
Water Column Length	7.75	Depth to Free Product	N/A	x Casing Volumes	1.26
Total Liters Purge	9 Lt.	Free Product Thickness	N/A	=Purge Volume	3.78
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	17'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
729	0.90		13.55	200 mL	6.27	22.63	0.385	36.40	-27.80		AC
734	0.90	1.80	13.58	200 mL	6.56	22.79	0.377	22.90	-87.10		C
739	0.90	2.70	13.60	200 mL	6.59	22.79	0.374	19.60	-93.10		C
744	0.90	3.60	13.62	200 mL	6.60	22.72	0.383	14.00	-96.20		C
749	0.90	4.50	13.64	200 mL	6.60	22.71	0.384	12.30	-94.00		C
754	0.90	5.40	13.65	200 mL	6.60	22.71	0.384	10.00	-89.10		C
759	0.90	6.30	13.66	200 mL	6.60	22.71	0.383	8.40	-89.10		C
804	0.90	7.20	13.65	200 mL	6.60	22.73	0.385	7.40	-95.20		C
809	0.90	8.10	13.66	200 mL	6.60	22.7	0.385	7.10	-99.20		C
814	0.90	9.00	13.67	200 mL	6.60	22.7	0.385	7.00	-99.10		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-3	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	816	Final Depth to Water	13.51	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-7	Job Number	8096
Client	Rowan	Date	7/12/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	0830/0935

WELL DATA

Well Depth	18.55	Well Diameter	2"	Water Height	4.95
Depth to Water	13.60	Screened Interval		x Multiplier	0.162
Water Column Length	4.95	Depth to Free Product	N/A	x Casing Volumes	0.8
Total Liters Purge	8 Lt.	Free Product Thickness	N/A	=Purge Volume	2.4
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	16'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
843	0.88		13.68	200 mL	5.68	22.3	0.192	9.60	132.60		C
848	0.88	1.76	13.69	200 mL	5.68	22.38	0.19	10.60	115.10		C
853	0.89	2.65	13.70	200 mL	5.71	22.31	0.191	8.60	113.20		C
858	0.88	3.53	13.71	200 mL	5.67	22.22	0.192	6.60	116.10		C
903	0.88	4.41	13.72	200 mL	5.69	22.17	0.192	5.10	115.10		C
908	0.89	5.30	13.71	200 mL	5.72	22.14	0.192	4.40	114.00		C
913	0.88	6.18	13.72	200 mL	5.74	22.14	0.193	4.00	113.00		C
918	0.88	7.06	13.72	200 mL	5.74	22.14	0.196	3.90	112.70		C
923	0.94	8.00	13.73	200 mL	5.76	22.18	0.196	3.50	111.90		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-7	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	925	Final Depth to Water	13.70	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-4	Job Number	8096
Client	Rowan	Date	7/12/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	0940/1035

WELL DATA

Well Depth	20.30	Well Diameter	2"	Water Height	6.50
Depth to Water	13.80	Screened Interval		x Multiplier	0.162
Water Column Length	6.50	Depth to Free Product	N/A	x Casing Volumes	1.05
Total Liters Purge	6 Lt.	Free Product Thickness	N/A	=Purge Volume	2.1
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	18'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
946	0.85		13.55	200 mL	5.18	22.16	1.5	12.30	93.10		C
951	0.85	1.70	13.56	200 mL	5.16	23.42	1.48	8.70	76.90		C
956	0.86	2.56	13.58	200 mL	5.14	23.54	1.45	6.10	80.60		C
1001	0.85	3.41	13.59	200 mL	5.14	23.66	1.45	5.60	80.30		C
1006	0.85	4.26	13.60	200 mL	5.13	23.59	1.480	4.90	77.60		C
1011	0.86	5.12	13.61	200 mL	5.11	23.39	1.49	4.20	77.00		C
1016	0.88	6.00	13.61	200 mL	5.07	23.29	1.5	3.90	78.00		C

SAMPLING DATA

Sample ID	FMW-4	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1025	Final Depth to Water	13.70	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-12	Job Number	8096
Client	Rowan	Date	7/12/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	10.48/11.54

WELL DATA

Well Depth	19.20	Well Diameter	2"	Water Height	7.19
Depth to Water	12.01	Screened Interval		x Multiplier	0.162
Water Column Length	7.19	Depth to Free Product	N/A	x Casing Volumes	1.16
Total Liters Purge	8 Lt.	Free Product Thickness	N/A	=Purge Volume	3.48
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	17'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1054	0.88		12.60	200 mL	5.52	17.52	0.168	14.10	103.70		C
1059	0.88	1.76	12.62	200 mL	5.04	17.26	0.141	35.70	109.80		C
1104	0.88	2.64	12.64	200 mL	5.38	17.29	0.138	30.50	97.40		C
1109	0.88	3.52	12.63	200 mL	5.48	17.22	0.147	16.70	82.50		C
1114	0.88	4.40	12.64	200 mL	5.59	17.22	0.151	12.50	69.10		C
1119	0.88	5.28	12.63	200 mL	5.63	17.21	0.155	11.20	61.80		C
1124	0.88	6.16	12.64	200 mL	5.70	17.21	0.155	10.80	55.10		C
1129	0.88	7.04	12.63	200 mL	5.73	17.2	0.156	10.90	51.10		C
1134	0.96	8.00	12.63	200 mL	5.74	17.5	0.157	10.70	47.80		C

SAMPLING DATA

Sample ID	FMW-12	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1025	Final Depth to Water	12.50	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	SB-24	Job Number	8096
Client	Rowan	Date	7/12/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	1155

WELL DATA

Well Depth	16.30	Well Diameter	2"	Water Height	1.60
Depth to Water	14.70	Screened Interval		x Multiplier	0.041
Water Column Length	1.60	Depth to Free Product	N/A	x Casing Volumes	0.066
Total Liters Purge		Free Product Thickness	N/A	=Purge Volume	0.198
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	14.5	Comments
Sampling Method	Bailer	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria

DRY

SAMPLING DATA

Sample ID	SB-24	Sampling Flow Rate	Bailer	Analytical Laboratory	AES	
Sample Time	1305	Final Depth to Water		Did Well Dewater?	Yes	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

1210 well pumped dry before first reading will sample tomarrow 7/13/12 with a bailer.

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	SB-25	Job Number	8096
Client	Rowan	Date	7/12/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	1217

WELL DATA

Well Depth	15.90	Well Diameter	1"	Water Height	1.10
Depth to Water	14.80	Screened Interval		x Multiplier	0.041
Water Column Length	1.10	Depth to Free Product	N/A	x Casing Volumes	0.045
Total Liters Purge		Free Product Thickness	N/A	=Purge Volume	0.135
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	15'	Comments
Sampling Method		Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria

DRY

SAMPLING DATA

Sample ID	SB-25	Sampling Flow Rate		Analytical Laboratory	AES	
Sample Time		Final Depth to Water		Did Well Dewater?	Yes	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

1223 well pumped dry before first reading will sample tomarrow 7/13/12 with a bailer.

7/13/12 not enough water to sample

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	SB-26	Job Number	8096
Client	Rowan	Date	7/12/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	1233

WELL DATA

Well Depth	16.35	Well Diameter	1"	Water Height	3.50
Depth to Water	12.85	Screened Interval		x Multiplier	0.041
Water Column Length	3.50	Depth to Free Product	N/A	x Casing Volumes	0.144
Total Liters Purge		Free Product Thickness	N/A	=Purge Volume	0.432
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	16'	Comments
Sampling Method	Bailer	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1241			14.85	200	5.09	23.49	0.487	7.00	174.20		VC

DRY

SAMPLING DATA

Sample ID	SB-26	Sampling Flow Rate	Bailer	Analytical Laboratory	AES	
Sample Time	1323	Final Depth to Water		Did Well Dewater?	Yes	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

1241 well pumped dry before first reading will sample tomarrow 7/13/12 with a bailer.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-1		Date:	4/28/2014
Well Diameter:	2"	(inches)	Measuring Pt:	Yes
Total Depth (TD):	25.00	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	13.10	(ft)	Weather:	Cloudy Hot
Water Column Height (CH):	11.90	(ft) = TD - GW	Additional Notes:	
Well Volume:	1.94	(gals)		
Total Liters Purged:	4.38	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
13:13	125	13.63	20.53	.375	2.30	6.14	60	N/A	AC
13:18	125	13.70	20.17	.362	3.10	6.18	71	N/A	AC
13:23	125	13.70	20.65	.368	2.24	6.20	73	N/A	C
13:28	125	13.68	20.55	.371	1.72	6.21	78	N/A	C
13:33	125	13.68	20.63	.376	1.51	6.19	72	N/A	C
13:38	125	13.69	20.73	.377	1.39	6.19	70	N/A	C
13:43	125	13.69	20.99	.380	1.38	6.22	70	N/A	C
13:48	125	13.69	20.76	.382	1.37	6.23	69	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low Flow sampling using a Geo pump, YSI 556 water meter, and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 13:45

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40mL VOA's	HCL	VOC's	N/A	N/A	N/A	Dup-1

Note sample time, parameters, duplicates, field blanks, etc.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-4		Date:	4/29/2014
Well Diameter:	2"	(inches)	Measuring Pt:	Yes
Total Depth (TD):	20.30	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	11.84	(ft)	Weather:	Cloudy Rain
Water Column Height (CH):	8.46	(ft) = TD - GW	Additional Notes:	
Well Volume:	1.39	(gals)		
Total Liters Purged:	8.00	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
8:22	125	11.90	20.71	1.65	7.15	5.69	13.6	N/A	C
8:27	100	12.04	20.61	1.64	7.05	5.71	15.6	N/A	C
8:32	100	12.06	20.57	1.64	6.91	5.71	174	N/A	C
8:37	100	12.10	20.63	1.64	6.75	5.71	8.5	N/A	C
8:42	100	12.11	20.65	1.64	6.67	5.71	2.7	N/A	C
8:47	100	12.10	20.70	1.64	6.70	5.71	21.1	N/A	C
8:52	100	12.10	20.74	1.62	6.86	5.70	29.7	N/A	C
8:57	100	12.11	20.76	1.55	6.38	5.70	28.3	N/A	C
9:02	100	12.11	20.80	1.52	6.23	5.69	30.7	N/A	C
9:07	100	12.11	20.77	1.47	6.17	5.68	32.9	N/A	C
9:12	100	12.10	20.79	1.47	6.02	5.69	35.7	N/A	C
9:17	100	12.10	20.82	1.48	5.88	5.69	37.1	N/A	C
9:22	100	12.11	20.83	1.50	5.78	5.69	37	N/A	C
9:27	100	12.11	20.83	1.50	5.68	5.69	36.3	N/A	C
9:32	100	12.10	20.90	1.51	5.51	5.69	39.9	N/A	C
9:37	100	12.10	20.92	1.51	5.50	5.69	39.1	N/A	C
9:42	100	12.10	20.87	1.51	5.49	5.69	40.1	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low Flow sampling using a Geo pump, YSI 556 water meter, and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 9:44

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40mL VOA's	HCL	VOC's	N/A	N/A	N/A	N/A

Note sample time, parameters, duplicates, field blanks, etc.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-5		Date:	4/29/2014
Well Diameter:	2"	(inches)	Measuring Pt:	Yes
Total Depth (TD):	18.72	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	12.22	(ft)	Weather:	Cloudy Warm
Water Column Height (CH):	6.50	(ft) = TD - GW	Additional Notes:	
Well Volume:	1.06	(gals)		
Total Liters Purged:	3.13	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
10:10	125	12.43	15.58	.193	3.17	5.54	36.5	N/A	C
10:15	125	12.48	15.64	.175	2.05	5.56	25.9	N/A	C
10:20	125	12.49	15.57	.176	1.53	5.58	18.2	N/A	C
10:25	125	12.50	15.66	.178	1.75	5.58	12.1	N/A	C
10:30	125	12.51	15.48	.180	1.75	5.58	7.4	N/A	C
10:35	125	12.51	15.52	.180	1.80	5.60	4.7	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low Flow sampling using a Geo pump, YSI 556 water meter, and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 10:38

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40mL VOA's	HCL	VOC's	N/A	N/A	N/A	N/A

Note sample time, parameters, duplicates, field blanks, etc.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-6		Date:	4/29/2014
Well Diameter:	2"	(inches)	Measuring Pt:	Yes
Total Depth (TD):	18.66	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	10.34	(ft)	Weather:	Cloudy Warm
Water Column Height (CH):	8.32	(ft) = TD - GW	Additional Notes:	
Well Volume:	1.36	(gals)		
Total Liters Purged:	2.50	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
10:55	125	10.15	15.52	.099	9.79	5.80	39.6	N/A	C
11:00	125	10.16	15.41	.099	9.62	5.71	35	N/A	C
11:05	125	10.17	15.15	.097	9.70	5.78	13.9	N/A	C
11:10	125	10.17	15.10	.097	9.74	5.80	5.8	N/A	C
11:15	125	10.17	15.04	.095	9.75	5.81	1.8	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low Flow sampling using a Geo pump, YSI 556 water meter, and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 11:18

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40mL VOA's	HCL	VOC's	N/A	N/A	N/A	N/A

Note sample time, parameters, duplicates, field blanks, etc.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-9		Date:	4/29/2014
Well Diameter:	2"	(inches)	Measuring Pt:	Yes
Total Depth (TD):	19.26	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	11.32	(ft)	Weather:	Cloudy Warm
Water Column Height (CH):	7.94	(ft) = TD - GW	Additional Notes:	
Well Volume:	1.29	(gals)		
Total Liters Purged:	3.75	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
11:42	125	11.31	15.98	.131	3.18	5.78	0	N/A	C
11:47	125	11.32	15.98	.130	3.16	5.76	0	N/A	C
11:52	125	11.32	15.88	.131	2.31	5.87	0	N/A	C
11:57	125	11.32	15.88	.131	1.11	5.94	0	N/A	C
12:02	125	11.31	15.89	.130	.75	5.93	0	N/A	C
12:07	125	11.32	15.91	.130	.71	5.94	0	N/A	C
12:12	125	11.31	15.90	.130	.70	5.92	0	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low Flow sampling using a Geo pump, YSI 556 water meter, and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 12:15

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40mL VOA's	HCL	VOC's	N/A	N/A	N/A	N/A

Note sample time, parameters, duplicates, field blanks, etc.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-13		Date:	4/29/2014
Well Diameter:	2"	(inches)	Measuring Pt:	Yes
Total Depth (TD):	19.65	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	9.18	(ft)	Weather:	Cloudy Warm
Water Column Height (CH):	10.47	(ft) = TD - GW	Additional Notes:	
Well Volume:	1.71	(gals)		
Total Liters Purged:	4.20	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
12:46	120	9.43	15.27	.073	10.90	4.98	26.4	N/A	C
12:51	120	9.48	14.86	.070	4.73	4.65	5.2	N/A	C
12:56	120	9.49	14.94	.070	3.52	4.76	0	N/A	C
13:01	120	9.49	14.99	.070	4.25	4.81	0	N/A	C
13:06	120	9.48	14.88	.070	3.73	4.82	0	N/A	C
13:11	120	9.48	14.81	.070	3.17	4.82	0	N/A	C
13:16	120	9.49	14.80	.069	3.19	4.84	0	N/A	C
13:21	120	9.49	14.81	.069	3.20	4.83	0	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low Flow sampling using a Geo pump, YSI 556 water meter, and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 13:24

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40mL VOA's	HCL	VOC's	N/A	N/A	N/A	N/A

Note sample time, parameters, duplicates, field blanks, etc.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-14		Date:	4/29/2014
Well Diameter:	2"	(inches)	Measuring Pt:	Yes
Total Depth (TD):	18.88	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	10.09	(ft)	Weather:	Cloudy Warm
Water Column Height (CH):	8.79	(ft) = TD - GW	Additional Notes:	
Well Volume:	1.43	(gals)		
Total Liters Purged:	3.75	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
14:01	125	10.04	16.43	.101	4.12	5.40	0	N/A	CL
14:06	125	10.06	14.87	.101	3.76	5.28	0	N/A	CL
14:11	125	10.08	14.82	.101	3.71	5.33	0	N/A	CL
14:16	125	10.10	14.82	.102	3.30	5.37	0	N/A	C
14:21	125	10.10	14.72	.101	2.72	5.39	0	N/A	C
14:26	125	10.10	14.72	.100	2.75	5.40	0	N/A	C
14:31	125	10.09	14.73	.099	2.72	5.39	0	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low Flow sampling using a Geo pump, YSI 556 water meter, and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 14:35

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40mL VOA's	HCL	VOC's	N/A	N/A	N/A	N/A

Note sample time, parameters, duplicates, field blanks, etc.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-15		Date:	4/30/2014
Well Diameter:	2"	(inches)	Measuring Pt:	Yes
Total Depth (TD):	14.34	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	9.66	(ft)	Weather:	Cloudy Warm
Water Column Height (CH):	4.68	(ft) = TD - GW	Additional Notes:	
Well Volume:	0.76	(gals)		
Total Liters Purged:	3.75	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
9:43	125	9.93	15.00	.690	1.91	6.34	91	N/A	CL
9:48	125	9.94	14.98	.692	1.81	6.33	121	N/A	CL
9:53	125	9.94	14.84	.699	1.29	6.36	117	N/A	CL
9:58	125	9.94	15.10	.694	1.18	6.37	113	N/A	C
10:03	125	9.94	14.85	.703	1.41	6.37	106	N/A	C
10:08	125	9.94	14.91	.696	1.89	6.38	106	N/A	C
10:13	125	9.95	14.86	.694	2.05	6.38	103	N/A	C
10:18	125	9.95	14.84	.692	1.93	6.38	97	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low Flow sampling using a Geo pump, YSI 556 water meter, and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 10:22

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40mL VOA's	HCL	VOC's	N/A	N/A	N/A	N/A

Note sample time, parameters, duplicates, field blanks, etc.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-16		Date:	4/30/2014
Well Diameter:	2"	(inches)	Measuring Pt:	Yes
Total Depth (TD):	15.36	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	9.83	(ft)	Weather:	Cloudy Warm
Water Column Height (CH):	5.53	(ft) = TD - GW	Additional Notes:	
Well Volume:	0.90	(gals)		
Total Liters Purged:	3.75	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
8:03	125	9.82	14.81	.117	1.69	5.91	122	N/A	CL
8:08	125	9.84	14.29	.116	1.71	5.99	133	N/A	CL
8:13	125	9.84	14.22	.117	1.78	5.93	136	N/A	CL
8:18	125	9.84	14.06	.118	1.70	5.65	139	N/A	C
8:23	125	9.84	14.10	.116	1.79	5.54	139	N/A	C
8:28	125	9.84	14.03	.116	1.77	5.40	121	N/A	C
8:33	125	9.85	14.02	.116	1.76	5.42	139	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low Flow sampling using a Geo pump, YSI 556 water meter, and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 8:35

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40mL VOA's	HCL	VOC's	N/A	N/A	N/A	N/A

Note sample time, parameters, duplicates, field blanks, etc.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-17		Date:	4/30/2014
Well Diameter:	2"	(inches)	Measuring Pt:	Yes
Total Depth (TD):	17.32	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	9.43	(ft)	Weather:	Cloudy Warm
Water Column Height (CH):	7.89	(ft) = TD - GW	Additional Notes:	
Well Volume:	1.29	(gals)		
Total Liters Purged:	3.13	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
8:58	125	9.43.	15.79	.175	1.83	6.09	64	N/A	CL
9:03	125	9.43	15.6+5	.174	.84	6.08	78	N/A	AC
9:08	125	9.44	15.57	.175	1.03	6.08	84	N/A	C
9:13	125	9.44	15.63	.176	1.07	6.08	89	N/A	C
9:18	125	9.45	15.58	.177	1.04	6.09	92	N/A	C
9:23	125	9.45	15.57	.176	1.02	6.09	89	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

Low Flow sampling using a Geo pump, YSI 556 water meter, and a Heron water level tape.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 9:28

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2-40mL VOA's	HCL	VOC's	N/A	N/A	N/A	N/A

Note sample time, parameters, duplicates, field blanks, etc.

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-16	Job Number	8096
Client	Rowan	Date	7/10/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear/Hot	Time In/Out	1055/1230

WELL DATA

Well Depth	15.65	Well Diameter	2"	Water Height	4.90
Depth to Water	10.75	Screened Interval		x Multiplier	0.162
Water Column Length	4.90	Depth to Free Product	N/A	x Casing Volumes	0.79
Total Liters Purge	9 Lt.	Free Product Thickness	N/A	=Purge Volume	2.37
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	13.5	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1130	0.90		10.83	200 mL	4.30	17.82	0.151	10.50	20.50		C
1135	0.90	1.80	10.84	200 mL	4.28	17.61	0.102	13.20	21.30		C
1140	0.90	2.70	10.85	200 mL	4.34	17.53	0.088	13.50	34.70		C
1145	0.90	3.60	10.85	200 mL	4.49	17.37	0.086	12.30	38.70		C
1150	0.90	4.50	10.85	200 mL	4.68	17.35	0.085	11.80	37.10		C
1155	0.90	5.40	10.85	200 mL	4.79	17.31	0.085	11.00	36.00		C
1200	0.90	6.30	10.85	200 mL	4.99	17.44	0.085	10.90	31.10		C
1205	0.90	7.20	10.85	200 mL	5.04	17.36	0.085	10.00	30.50		C
1210	0.90	8.10	10.85	200 mL	5.12	17.41	0.085	9.80	28.60		C
1215	0.90	9.00	10.86	200 mL	5.13	17.36	0.085	9.60	30.20		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-16	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1218	Final Depth to Water	10.80	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-15	Job Number	8096
Client	Rowan	Date	7/10/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear/Hot	Time In/Out	1250/1358

WELL DATA

Well Depth	14.40	Well Diameter	2"	Water Height	3.25
Depth to Water	11.15	Screened Interval		x Multiplier	0.162
Water Column Length	3.25	Depth to Free Product	N/A	x Casing Volumes	0.53
Total Liters Purge	9 Lt.	Free Product Thickness	N/A	=Purge Volume	1.59
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	13	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1300	0.90		11.80	200 mL	5.98	20.97	0.673	20.00	-41.90		CL
1305	0.90	1.80	12.10	200 mL	5.94	20.5	0.656	25.90	-44.10		CL
1310	0.90	2.70	12.56	200 mL	6.01	20.55	0.617	25.00	-40.00		CL
1315	0.90	3.60	12.86	200 mL	6.00	20.29	0.566	26.80	-33.40		CL
1320	0.90	4.50	13.07	200 mL	6.03	20.34	0.52	26.70	-29.10		CL
1325	0.90	5.40	13.20	200 mL	6.01	20.33	0.495	28.20	-22.90		SC
1330	0.90	6.30	13.32	200 mL	6.00	20.24	0.486	27.80	-20.10		SC
1335	0.90	7.20	13.41	200 mL	5.99	20.25	0.48	26.90	-16.60		AC
1340	0.90	8.10	13.32	200 mL	5.99	20.28	0.483	27.80	-13.60		AC
1345	0.90	9.00	13.31	200 mL	5.96	20.21	0.482	28.10	-10.60		AC

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-15	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1348	Final Depth to Water	13.30	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Pump pulling well down faster than the well is recharging

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-13	Job Number	8096
Client	Rowan	Date	7/10/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear/Hot	Time In/Out	1400/1510

WELL DATA

Well Depth	19.50	Well Diameter	2"	Water Height	9.58
Depth to Water	9.92	Screened Interval		x Multiplier	0.162
Water Column Length	9.58	Depth to Free Product	N/A	x Casing Volumes	1.55
Total Liters Purge	7 Lt.	Free Product Thickness	N/A	=Purge Volume	4.65
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	17'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1417	0.87		10.75	200 mL	5.85	18.15	0.103	11.50	125.60		AC
1422	0.88	1.75	11.18	200 mL	4.68	17.68	0.078	7.50	161.50		C
1427	0.87	2.62	11.19	200 mL	4.93	17.55	0.08	7.10	149.10		C
1432	0.88	3.50	11.20	200 mL	5.13	17.56	0.082	8.60	137.10		C
1437	0.87	4.37	11.31	200 mL	5.11	17.3	0.082	10.80	137.10		C
1442	0.88	5.25	11.32	200 mL	5.11	17.39	0.083	12.50	138.10		C
1447	0.87	6.12	11.31	200 mL	5.12	17.28	0.082	12.40	139.10		C
1452	0.88	7.00	11.32	200 mL	5.06	17.19	0.082	12.10	140.10		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-13	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1455	Final Depth to Water	11.25	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-9	Job Number	8096
Client	Rowan	Date	7/10/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear/Hot	Time In/Out	1502/1600

WELL DATA

Well Depth	19.35	Well Diameter	2"	Water Height	7.65
Depth to Water	11.70	Screened Interval		x Multiplier	0.162
Water Column Length	7.65	Depth to Free Product	N/A	x Casing Volumes	1.24
Total Liters Purge	5 Lt.	Free Product Thickness	N/A	=Purge Volume	3.72
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	16'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1517	0.83		12.38	200 mL	5.82	19.18	0.134	10.60	313.10		CL
1522	0.83	1.66	12.39	200 mL	5.37	18.81	0.134	7.20	166.00		CL
1527	0.84	2.50	12.38	200 mL	5.58	18.66	0.134	6.30	137.00		CL
1532	0.83	3.33	12.39	200 mL	5.68	18.71	0.135	6.40	128.00		CL
1537	0.83	4.16	12.38	200 mL	5.66	18.72	0.135	7.00	128.00		CL
1542	0.84	5.00	12.38	200 mL	5.66	18.61	0.134	6.90	128.00		CL

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-9	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1545	Final Depth to Water	12.30	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-1	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Cloudy / Warm	Time In/Out	0720/0808

WELL DATA

Well Depth	25.00	Well Diameter	2"	Water Height	9.70
Depth to Water	15.30	Screened Interval		x Multiplier	0.162
Water Column Length	9.70	Depth to Free Product	N/A	x Casing Volumes	1.57
Total Liters Purge	7 Lt.	Free Product Thickness	N/A	=Purge Volume	4.71
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	22'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
720	0.87		15.55	200 mL	6.17	21.14	0.721	28.40	-14.70		C
725	0.88	1.75	15.56	200 mL	5.89	21	0.421	27.90	-23.10		C
730	0.87	2.62	15.55	200 mL	6.07	20.89	0.404	20.10	-36.20		C
735	0.88	3.50	15.56	200 mL	5.98	20.9	0.302	15.20	-20.10		C
740	0.87	4.37	15.58	200 mL	5.89	20.89	0.274	12.10	-5.10		C
745	0.88	5.25	15.59	200 mL	5.89	20.88	0.276	10.10	-2.30		C
750	0.87	6.12	15.60	200 mL	5.92	20.89	0.285	10.00	-3.70		C
755	0.88	7.00	15.61	200 mL	5.93	20.87	0.286	9.90	-3.90		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-1	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	758	Final Depth to Water	15.50	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-8	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Cloudy / Hot	Time In/Out	0814/0905

WELL DATA

Well Depth	20.30	Well Diameter	2"	Water Height	6.40
Depth to Water	13.90	Screened Interval		x Multiplier	0.162
Water Column Length	6.40	Depth to Free Product	N/A	x Casing Volumes	1.04
Total Liters Purge	7 Lt.	Free Product Thickness	N/A	=Purge Volume	3.12
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	18'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
819	0.87		14.03	200 mL	5.75	22.71	0.138	12.20	102.10		C
824	0.88	1.75	14.05	200 mL	5.39	22.71	0.103	10.30	110.20		C
829	0.87	2.62	14.05	200 mL	5.14	22.85	0.085	8.10	133.20		C
834	0.88	3.50	14.06	200 mL	5.17	22.93	0.09	6.90	132.10		C
839	0.87	4.37	14.08	200 mL	5.16	22.92	0.094	5.90	126.10		C
844	0.88	5.25	14.08	200 mL	5.23	22.87	0.1	5.50	116.10		C
849	0.87	6.12	14.09	200 mL	5.23	22.86	0.104	5.40	111.40		C
854	0.88	7.00	14.08	200 mL	5.25	22.87	0.106	5.20	102.40		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-8	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	857	Final Depth to Water	14.00	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-2	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Cloudy / Warm	Time In/Out	913/1008

WELL DATA

Well Depth	21.30	Well Diameter	2"	Water Height	6.85
Depth to Water	14.45	Screened Interval		x Multiplier	0.162
Water Column Length	6.85	Depth to Free Product	N/A	x Casing Volumes	1.11
Total Liters Purge	8 Lt.	Free Product Thickness	N/A	=Purge Volume	3.33
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	18'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
915			13.50	200 mL	5.51	22.64	0.166	13.40	255.10		C
920			13.51	200 mL	5.08	22.74	0.16	8.40	140.10		C
925			13.52	200 mL	5.23	22.9	0.154	6.70	121.10		C
930			13.51	200 mL	5.35	23.01	0.174	6.30	106.10		C
935			13.52	200 mL	5.30	23.04	0.158	5.60	100.10		C
940			13.51	200 mL	5.19	22.94	0.126	5.00	103.10		C
945			13.52	200 mL	5.13	22.97	0.112	4.60	103.00		C
950			13.51	200 mL	5.11	22.95	0.109	4.40	102.00		C
955			13.52	200 mL	5.12	22.93	0.109	4.30	0.97		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-2	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	958	Final Depth to Water	14.00	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-14	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Cloudy / Hot	Time In/Out	1020/1120

WELL DATA

Well Depth	18.85	Well Diameter	2"	Water Height	7.97
Depth to Water	10.88	Screened Interval		x Multiplier	0.162
Water Column Length	7.97	Depth to Free Product	N/A	x Casing Volumes	1.29
Total Liters Purge	5 Lt.	Free Product Thickness	N/A	=Purge Volume	3.87
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	16'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1042	0.83		10.98	200 mL	5.80	17.03	0.105	18.90	203.10		CL
1047	0.83	1.66	10.98	200 mL	4.81	17.13	0.103	7.40	130.60		CL
1052	0.84	2.50	10.98	200 mL	5.04	17.14	0.101	6.30	11.60		SC
1057	0.83	3.33	10.98	200 mL	5.26	17.08	0.102	5.70	98.70		SC
1102	0.83	4.16	10.99	200 mL	5.36	17.28	0.100	5.50	91.70		AC
1107	0.84	5.00	10.99	200 mL	5.41	17.38	0.099	6.00	92.30		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-14	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1110	Final Depth to Water	10.85	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-10	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Cloudy / Hot	Time In/Out	1122/1211

WELL DATA

Well Depth	19.30	Well Diameter	2"	Water Height	8.60
Depth to Water	10.70	Screened Interval		x Multiplier	0.162
Water Column Length	8.60	Depth to Free Product	N/A	x Casing Volumes	1.39
Total Liters Purge	5 Lt.	Free Product Thickness	N/A	=Purge Volume	4.17
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	17'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1134	0.83		10.60	200 mL	6.13	18.82	0.21	17.30	308.00		AC
1139	0.83	1.66	10.61	200 mL	5.71	19.3	0.2	5.40	33.40		C
1144	0.84	2.50	10.62	200 mL	6.05	19.22	0.235	4.70	-6.40		C
1149	0.83	3.33	10.61	200 mL	6.15	19.05	0.253	4.10	-27.40		C
1154	0.83	4.16	10.62	200 mL	6.20	18.88	0.254	3.80	-37.10		C
1159	0.84	5.00	10.62	200 mL	6.22	18.91	0.254	3.70	-39.10		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-10	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1203	Final Depth to Water	10.50	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-6	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear/Hot	Time In/Out	1215/1255

WELL DATA

Well Depth	18.75	Well Diameter	2"	Water Height	7.87
Depth to Water	10.88	Screened Interval		x Multiplier	0.162
Water Column Length	7.87	Depth to Free Product	N/A	x Casing Volumes	1.27
Total Liters Purge	4Lt.	Free Product Thickness	N/A	=Purge Volume	3.81
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	17'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1222	0.80		10.65	200 mL	5.32	18.59	0.116	9.20	135.00		C
1227	0.80	1.60	10.68	200 mL	5.07	17.60	0.115	4.70	138.40		C
1232	0.80	2.40	10.69	200 mL	5.39	17.65	0.115	6.80	122.10		C
1237	0.80	3.20	10.69	200 mL	5.42	17.66	0.115	6.80	116.10		C
1242	0.80	4.00	10.69	200 mL	5.49	17.60	0.116	6.40	119.10		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-6	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1245	Final Depth to Water	10.50	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-5	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	1300/1420

WELL DATA

Well Depth	18.80	Well Diameter	2"	Water Height	7.19
Depth to Water	13.00	Screened Interval		x Multiplier	0.162
Water Column Length	5.80	Depth to Free Product	N/A	x Casing Volumes	0.94
Total Liters Purge	5 Lt.	Free Product Thickness	N/A	=Purge Volume	2.82
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	17'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1343	0.83		12.98	200 mL	6.08	19.49	0.239	12.80	100.10		C
1348	0.83	1.66	12.99	200 mL	5.87	19.52	0.237	6.30	4.60		C
1353	0.84	2.50	12.98	200 mL	5.86	19.24	0.227	5.40	-1.70		C
1358	0.83	3.33	12.98	200 mL	5.91	19.30	0.22	5.50	-5.70		C
1403	0.83	4.16	12.99	200 mL	5.98	19.28	0.228	5.10	-15.90		C
1408	0.84	5.00	12.98	200 mL	6.00	19.14	0.227	5.20	-21.90		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-5	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1415	Final Depth to Water	13.00	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-11	Job Number	8096
Client	Rowan	Date	7/11/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	1420/1510

WELL DATA

Well Depth	19.20	Well Diameter	2"	Water Height	7.19
Depth to Water	12.01	Screened Interval		x Multiplier	0.162
Water Column Length	7.19	Depth to Free Product	N/A	x Casing Volumes	1.16
Total Liters Purge	4 Lt.	Free Product Thickness	N/A	=Purge Volume	3.48
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	17'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1445	0.80		12.00	200 mL	5.22	20.79	0.077	12.01	122.10		C
1450	0.80	1.60	12.00	200 mL	4.67	17.69	0.074	6.90	159.10		C
1455	0.80	2.40	12.01	200 mL	4.62	17.52	0.073	5.10	165.10		C
1500	0.80	3.20	12.02	200 mL	4.69	17.51	0.071	4.70	159.10		C
1505	0.80	4.00	12.02	200 mL	4.71	17.53	0.072	4.80	158.20		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-11	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1508	Final Depth to Water	12.01	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-3	Job Number	8096
Client	Rowan	Date	7/12/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	0725/0830

WELL DATA

Well Depth	19.90	Well Diameter	2"	Water Height	7.75
Depth to Water	13.15	Screened Interval		x Multiplier	0.162
Water Column Length	7.75	Depth to Free Product	N/A	x Casing Volumes	1.26
Total Liters Purge	9 Lt.	Free Product Thickness	N/A	=Purge Volume	3.78
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	17'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
729	0.90		13.55	200 mL	6.27	22.63	0.385	36.40	-27.80		AC
734	0.90	1.80	13.58	200 mL	6.56	22.79	0.377	22.90	-87.10		C
739	0.90	2.70	13.60	200 mL	6.59	22.79	0.374	19.60	-93.10		C
744	0.90	3.60	13.62	200 mL	6.60	22.72	0.383	14.00	-96.20		C
749	0.90	4.50	13.64	200 mL	6.60	22.71	0.384	12.30	-94.00		C
754	0.90	5.40	13.65	200 mL	6.60	22.71	0.384	10.00	-89.10		C
759	0.90	6.30	13.66	200 mL	6.60	22.71	0.383	8.40	-89.10		C
804	0.90	7.20	13.65	200 mL	6.60	22.73	0.385	7.40	-95.20		C
809	0.90	8.10	13.66	200 mL	6.60	22.7	0.385	7.10	-99.20		C
814	0.90	9.00	13.67	200 mL	6.60	22.7	0.385	7.00	-99.10		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-3	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	816	Final Depth to Water	13.51	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-7	Job Number	8096
Client	Rowan	Date	7/12/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	0830/0935

WELL DATA

Well Depth	18.55	Well Diameter	2"	Water Height	4.95
Depth to Water	13.60	Screened Interval		x Multiplier	0.162
Water Column Length	4.95	Depth to Free Product	N/A	x Casing Volumes	0.8
Total Liters Purge	8 Lt.	Free Product Thickness	N/A	=Purge Volume	2.4
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	16'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
843	0.88		13.68	200 mL	5.68	22.3	0.192	9.60	132.60		C
848	0.88	1.76	13.69	200 mL	5.68	22.38	0.19	10.60	115.10		C
853	0.89	2.65	13.70	200 mL	5.71	22.31	0.191	8.60	113.20		C
858	0.88	3.53	13.71	200 mL	5.67	22.22	0.192	6.60	116.10		C
903	0.88	4.41	13.72	200 mL	5.69	22.17	0.192	5.10	115.10		C
908	0.89	5.30	13.71	200 mL	5.72	22.14	0.192	4.40	114.00		C
913	0.88	6.18	13.72	200 mL	5.74	22.14	0.193	4.00	113.00		C
918	0.88	7.06	13.72	200 mL	5.74	22.14	0.196	3.90	112.70		C
923	0.94	8.00	13.73	200 mL	5.76	22.18	0.196	3.50	111.90		C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID	FMW-7	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	925	Final Depth to Water	13.70	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-4	Job Number	8096
Client	Rowan	Date	7/12/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	0940/1035

WELL DATA

Well Depth	20.30	Well Diameter	2"	Water Height	6.50
Depth to Water	13.80	Screened Interval		x Multiplier	0.162
Water Column Length	6.50	Depth to Free Product	N/A	x Casing Volumes	1.05
Total Liters Purge	6 Lt.	Free Product Thickness	N/A	=Purge Volume	2.1
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	18'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
946	0.85		13.55	200 mL	5.18	22.16	1.5	12.30	93.10		C
951	0.85	1.70	13.56	200 mL	5.16	23.42	1.48	8.70	76.90		C
956	0.86	2.56	13.58	200 mL	5.14	23.54	1.45	6.10	80.60		C
1001	0.85	3.41	13.59	200 mL	5.14	23.66	1.45	5.60	80.30		C
1006	0.85	4.26	13.60	200 mL	5.13	23.59	1.480	4.90	77.60		C
1011	0.86	5.12	13.61	200 mL	5.11	23.39	1.49	4.20	77.00		C
1016	0.88	6.00	13.61	200 mL	5.07	23.29	1.5	3.90	78.00		C

SAMPLING DATA

Sample ID	FMW-4	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1025	Final Depth to Water	13.70	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	FMW-12	Job Number	8096
Client	Rowan	Date	7/12/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	10.48/11.54

WELL DATA

Well Depth	19.20	Well Diameter	2"	Water Height	7.19
Depth to Water	12.01	Screened Interval		x Multiplier	0.162
Water Column Length	7.19	Depth to Free Product	N/A	x Casing Volumes	1.16
Total Liters Purge	8 Lt.	Free Product Thickness	N/A	=Purge Volume	3.48
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	17'	Comments
Sampling Method	Pipette	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1054	0.88		12.60	200 mL	5.52	17.52	0.168	14.10	103.70		C
1059	0.88	1.76	12.62	200 mL	5.04	17.26	0.141	35.70	109.80		C
1104	0.88	2.64	12.64	200 mL	5.38	17.29	0.138	30.50	97.40		C
1109	0.88	3.52	12.63	200 mL	5.48	17.22	0.147	16.70	82.50		C
1114	0.88	4.40	12.64	200 mL	5.59	17.22	0.151	12.50	69.10		C
1119	0.88	5.28	12.63	200 mL	5.63	17.21	0.155	11.20	61.80		C
1124	0.88	6.16	12.64	200 mL	5.70	17.21	0.155	10.80	55.10		C
1129	0.88	7.04	12.63	200 mL	5.73	17.2	0.156	10.90	51.10		C
1134	0.96	8.00	12.63	200 mL	5.74	17.5	0.157	10.70	47.80		C

SAMPLING DATA

Sample ID	FMW-12	Sampling Flow Rate	N/A Pipette	Analytical Laboratory	AES	
Sample Time	1025	Final Depth to Water	12.50	Did Well Dewater?	No	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	SB-24	Job Number	8096
Client	Rowan	Date	7/12/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	1155

WELL DATA

Well Depth	16.30	Well Diameter	2"	Water Height	1.60
Depth to Water	14.70	Screened Interval		x Multiplier	0.041
Water Column Length	1.60	Depth to Free Product	N/A	x Casing Volumes	0.066
Total Liters Purge		Free Product Thickness	N/A	=Purge Volume	0.198
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	14.5	Comments
Sampling Method	Bailer	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria

DRY

SAMPLING DATA

Sample ID	SB-24	Sampling Flow Rate	Bailer	Analytical Laboratory	AES	
Sample Time	1305	Final Depth to Water		Did Well Dewater?	Yes	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

1210 well pumped dry before first reading will sample tomarrow 7/13/12 with a bailer.

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	SB-25	Job Number	8096
Client	Rowan	Date	7/12/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	1217

WELL DATA

Well Depth	15.90	Well Diameter	1"	Water Height	1.10
Depth to Water	14.80	Screened Interval		x Multiplier	0.041
Water Column Length	1.10	Depth to Free Product	N/A	x Casing Volumes	0.045
Total Liters Purge		Free Product Thickness	N/A	=Purge Volume	0.135
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	15'	Comments
Sampling Method		Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria

DRY

SAMPLING DATA

Sample ID	SB-25	Sampling Flow Rate		Analytical Laboratory	AES	
Sample Time		Final Depth to Water		Did Well Dewater?	Yes	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

1223 well pumped dry before first reading will sample tomarrow 7/13/12 with a bailer.

7/13/12 not enough water to sample

Well Monitoring Data Sheet

WINTER ENVIRONMENTAL

Well I.D.	SB-26	Job Number	8096
Client	Rowan	Date	7/12/2012
Project	Fashion Care	Sampler	JDK
Weather	Clear / Hot	Time In/Out	1233

WELL DATA

Well Depth	16.35	Well Diameter	1"	Water Height	3.50
Depth to Water	12.85	Screened Interval		x Multiplier	0.041
Water Column Length	3.50	Depth to Free Product	N/A	x Casing Volumes	0.144
Total Liters Purge		Free Product Thickness	N/A	=Purge Volume	0.432
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method	Geo Pump	Pump Intake Depth	16'	Comments
Sampling Method	Bailer	Tubing Type	Poly	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp C	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/ -0.2	+/ -0.5 C	+/ -5%	+/ -0.5 ppm	+/ -20mV	+/ -10%	Stabilization Criteria
1241			14.85	200	5.09	23.49	0.487	7.00	174.20		VC

DRY

SAMPLING DATA

Sample ID	SB-26	Sampling Flow Rate	Bailer	Analytical Laboratory	AES	
Sample Time	1323	Final Depth to Water		Did Well Dewater?	Yes	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
2/40mL - VOA	HCL	TCL / VOC	no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

1241 well pumped dry before first reading will sample tomarrow 7/13/12 with a bailer.

LOW FLOW GROUNDWATER MONITORING WELL SAMPLING FORM

WOODARD &CURRAN

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
Ph: 770.622.6766
F: 770.396.0095

Project #:	226203.00
Facility Name:	Fashion Care
Facility Location:	Chamblee Ga

Well ID:	FMW-17		Date:	3/29/2013
Well Diameter:	2"	(inches)	Measuring Pt:	No
Total Depth (TD):	17.32	(ft)	Personnel:	JDK
Depth to Groundwater (GW):	8.84	(ft)	Weather:	Clear Warm
Water Column Height (CH):	8.48	(ft) = TD - GW	Additional Notes:	
Well Volume:	1.38	(gals)		
Total Liters Purged:	4.05	(Lt)		

Well Volume Factors (gallons/foot of water in well): 0.75-inch (0.023), 1-inch (0.041), 1.5-inch (0.092), 2-inch (0.163), 4-inch (0.653)

Parameter Monitoring Results

Time	Vol. Purged (units: mL/min)	D.T.W. (feet)	Temp. (°C)	Sp. Cond (mS/cm)	D.O. (mg/l)	pH (su)	Orp (mV)	Turb. (NTUs)	Clarity /Color
Instrument Accuracy			+/- 0.5 °C	+/- 5%	+/- 0.5 mg/L	+/- 0.2	+/- 20mV	+/- 10%	Stabilization Criteria
9:40	90mL/min	8.99	13.33	0.22	62.00	5.28	-112.00	N/A	CL
9:45	90mL/min	8.99	13.32	0.23	51.80	5.40	-147.10	N/A	CL
9:50	90mL/min	8.99	13.40	0.24	39.20	5.50	-169.20	N/A	SC
9:55	90mL/min	8.99	13.36	0.24	43.10	5.53	-182.10	N/A	SC
10:00	90mL/min	8.99	13.39	0.24	43.90	5.54	-185.10	N/A	SC
10:05	90mL/min	8.99	13.44	0.24	41.30	5.57	-195.10	N/A	SC
10:10	90mL/min	8.98	13.63	0.24	35.20	5.60	-207.10	N/A	AC
10:15	90mL/min	8.98	13.62	0.24	35.60	5.63	-215.10	N/A	AC
10:20	90mL/min	8.98	13.71	0.24	35.60	5.65	-222.10	N/A	AC
10:25	90mL/min	8.98	13.89	0.24	35.40	5.66	-221.10	N/A	C

Clarity: VC = very cloudy, CL = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

Comments:

A peristaltic pump was used to collect samples using USEPA low flow/low stress method.

Note: Sampling Method, Sample Interval, Recharge Conditions, Color, Odor, Sediment Content, etc.

Sample Time: 1030

# Containers/Type	Preservative	Analysis/Method	Field Filter Y/N	Filter size	MS/MSD	Dup ID
2 - 40mL VOAs	HCL	TCL - VOCs	N/A	N/A	N/A	N/A

Note sample time, parameters, duplicates, field blanks, etc.

CORRECTIVE ACTION PLAN – PART B

For:

Shell Food Mart (Former E-Z Serve #8102)
4308 North Peachtree Road
Chamblee, Dekalb County, Georgia 30341-1210
Facility ID: 9000341*1

SECOR International Incorporated
20 Mansell Court East, Suite 275
Roswell, Georgia 30076

December 5, 2007

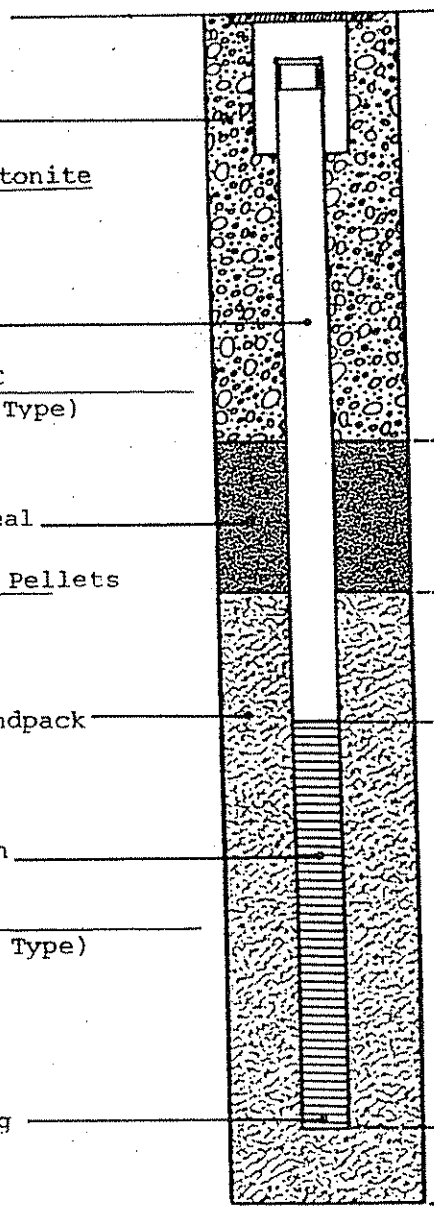
APPENDIX IV
SOIL BORING LOGS AND MONITORING WELL CONSTRUCTION DIAGRAMS

Shell Food Mart (Former E-Z Serve #8102)
4308 North Peachtree Road
Chamblee, Dekalb, County
Facility ID: 9000341*1

MONITORING WELL CONSTRUCTION

WELL NO. MW-1
DATE COMPLETED 2-6-89
PROJECT NO. 32-97015
STORE NO. #10209

BORING DIAMETER 8" Ø
I.D. CASING 2" Ø
LENGTH OF SCREEN 15 feet
SCREEN OPENING SIZE 0.010 inch



Grout

Cement-Bentonite
(Type)

Casing

2" Ø PVC
(Size & Type)

Bentonite Seal

1/2" Bentonite Pellets
(Type)

Sandpack

Screen

2" Ø PVC
(Size & Type)

Threaded Plug

Depth to Top of Bentonite Seal 6.5 feet

Depth to Top of Sand 8.5 feet

Depth to Top of Screen 10.5 feet

GROUNDWATER DEPTH 12.58

Depth to Bottom of Screen 25.5

Total Depth 26.0 feet

NOTE: All Depths Referenced From Ground Surface

LEGEND

SCALE: NOT TO SCALE

ATEC Associates, Inc.

PROJECT
TOC RETAIL
4308 N. PEACHTREE ROAD
CHAMBLEE, GEORGIA
ATEC PROJECT NUMBER 32-97015

Westinghouse
Environmental Services

SUBSURFACE DRILL LOG

DEPTH FEET	SOIL/MATERIAL DESCRIPTION (SURFACE ELEVATION _____)	SAMPLE	SPT BLOWS	RECOV.	WATER	SCREEN	REMARKS
	Fill: Clay, tan and gray, stiff, fine sandy, slightly silty, some gravel present, dry						HNU Readings
		1	6-18 -20	60%			40ppm
5	Residuum: Silt, light brown, slightly clayey, micaceous, moist						
		2	6-9 -8	70%			40ppm
10							
		3	8-6 -8	60%			10ppm
15							
	Boring complete at 18.6 Feet						
20							

DRILLING & SAMPLING MEETS ASTM D-1586 & ASTM D-1587

PAGE 1 OF 1

SUPERVISOR N Jarrio

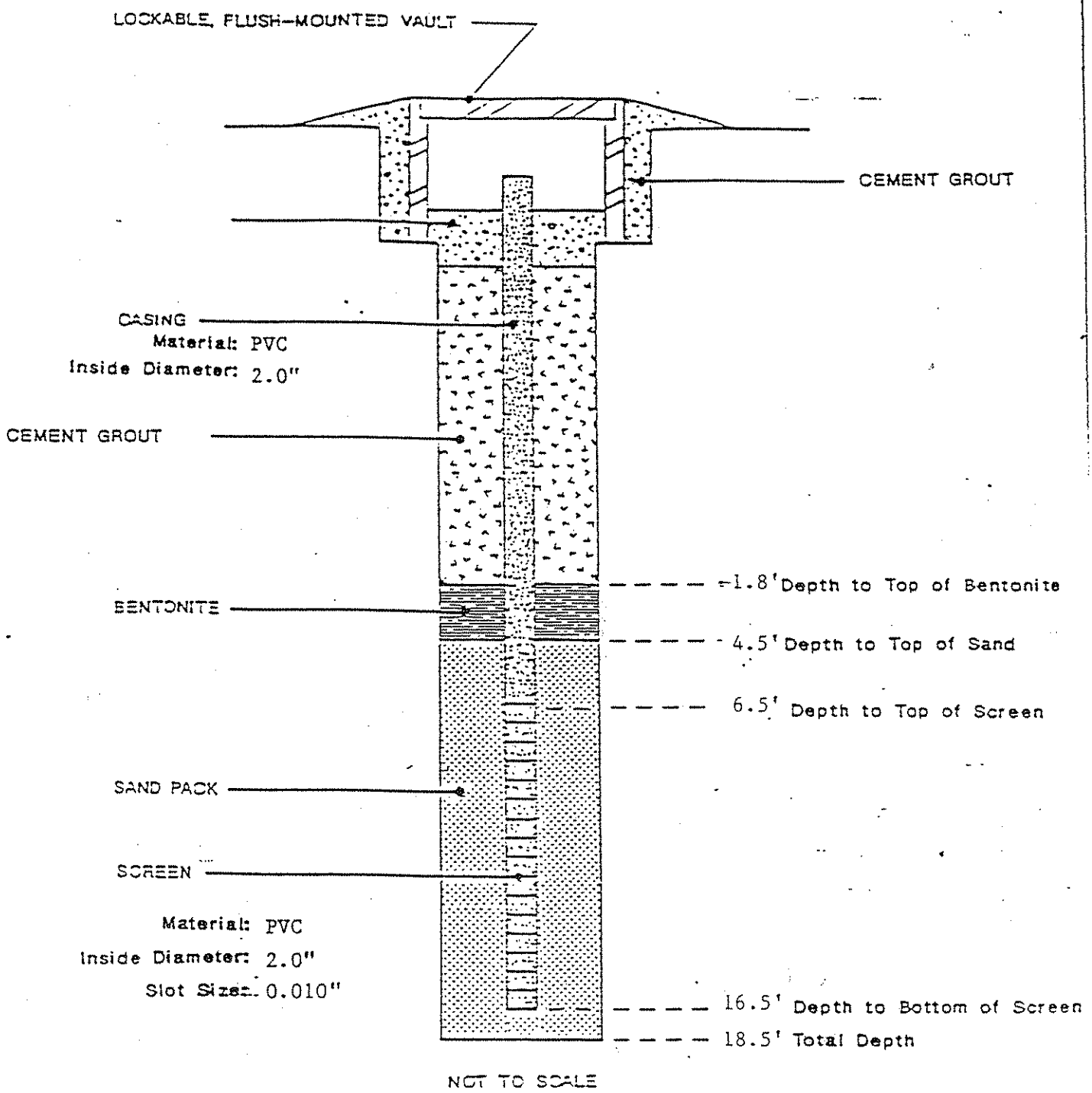
LOCATION NO. MW-2 (102-09)

RIG TYPE B-57

DATE DRILLED 3-13-89

WEATHER windy, cool, 60°

JOB NO. 0000-89-097



All Depths Referenced From Ground Surface

Westinghouse
Environmental Services

Well Schematic
Monitor Well MW-2
Tenneco Facility No. 102-09
Chamblee, Georgia
WGR Job. No. 0000-89-097

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-2R** PAGE 1 OF 2 SECOR
DRILLING: STARTED **12/14/06** COMPLETED: **12/14/06** INSTALLATION: STARTED **12/14/06** COMPLETED: **12/14/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **26.0** WELL CASING DIAMETER (in): **2** BOREHOLE DIAMETER (in): **8** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML	**SILT** ; ML; 5YR 5/8 yellowish red; non plastic; soft; dry; no odor		MW-2R@ 2-3'	5		1.3		2 inch diameter PVC blank casing; Bentonite chips seal
5							4 4 4 5		5	
		SW-SM	**SAND WITH SILT AND GRAVEL** ; SW-SM; 5YR 5/8 yellowish red; loose; dry; no odor; well graded; trace mica chips		1030 MW-2R	2		2.3		
10		ML	**SILT** ; ML; 10R 4/6 red; non plastic; soft; moist; no odor		MW-2R@ 10-11'	2	2 3 4 4	1.1	10	10/30 silica sand pack
15		ML	**SILT** ; ML; 5YR 2.5/1 black; non plastic; soft; moist; no odor; laminated; vertical micro fractures and mica chips		MW-2R@ 15-16'	2	2 3 4 5	1.1	15	2 inch diameter PVC 0.010 inch slotted screen
		ML	**SILT** ; ML; 7.5YR 6/8 AND 7.5YR 2.5/1 reddish yellow with black; non plastic; dry; no odor; trace mica chips				11 28			

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-2R** PAGE 2 OF 2 SECOR
DRILLING: STARTED **12/14/06** COMPLETED: **12/14/06** INSTALLATION: STARTED **12/14/06** COMPLETED: **12/14/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **26.0** WELL CASING DIAMETER (in): **2** BOREHOLE DIAMETER (in): **8** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML			- MW-2R@ 20-21'	2	15 12	1.1		2 inch diameter PVC pipe cap; 10/30 silica sand pack
25					- MW-2R@ 25-26'	2	6 6 9 10	1.6	25	
			Hole terminated at 26 feet.							
30									30	
35									35	

GEO FORM 304 GUST1.GPJ SECOR INTL.GDT 10/16/07

Westinghouse Environmental Services

SUBSURFACE DRILL LOG

DEPTH FEET	SOIL/MATERIAL DESCRIPTION (SURFACE ELEVATION ____)	SAMPLE	SPT BLOWS	RECOV.	WATER	SCREEN	REMARKS
	Fill: Clay, red-brown, stiff, very silty, micaceous, moist						HNU Reading
5		1	9-7-8	100%			6 ppm
	Clay, tan and gray, stiff, fine sandy, slightly silty, some gravel present, moist						
10		2	3-3-3	100%			70 ppm
	Residuum: Silt, light brown, slightly clayey, micaceous, moist	3	5-10-11	100%			45ppm
15							
	Boring complete at 18.6 feet						
20							

DRILLING & SAMPLING MEETS ASTM D-1586 & ASTM D-1587

PAGE 1 OF 1

SUPERVISOR N. Jarrio

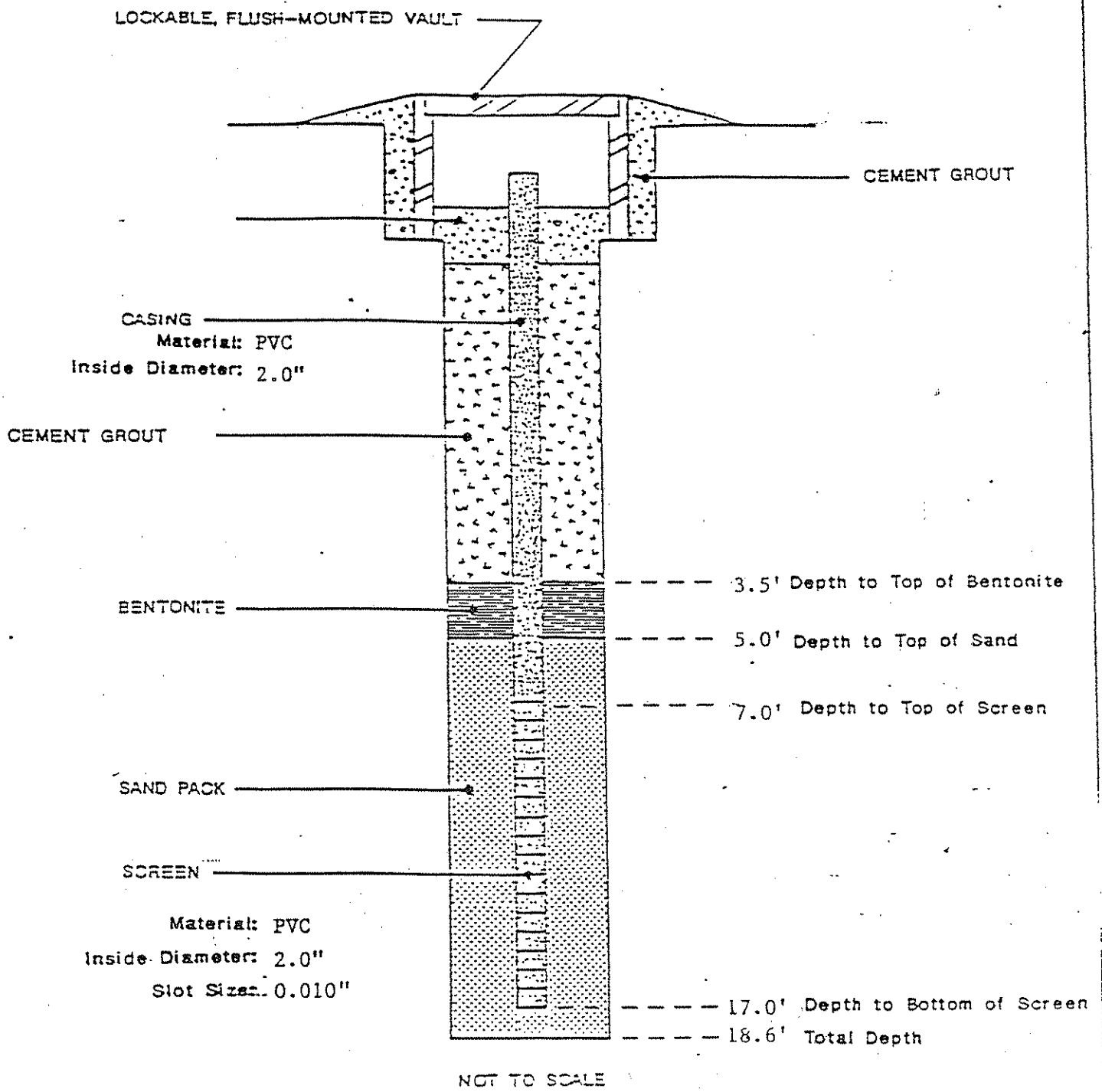
RIG TYPE B-57

WEATHER Windy, Cool, 60°

LOCATION NO. MW-3 (102-09)

DATE DRILLED 3-13-89

JOB NO. 0000-89-097



All Depths Referenced From Ground Surface

Westinghouse
Environmental Services

Well Schematic
Monitor Well MW-3
Tenneco Facility No. 102-09
Chamblee, Georgia
WGR Job No. 000-89-097

Westinghouse Environmental Services

SUBSURFACE DRILL LOG

DEPTH FEET	SOIL/MATERIAL DESCRIPTION (SURFACE ELEVATION _____)	SAMPLE	SPT BLOWS	RECOV.	WATER	SCREEN	REMARKS
	Fill: Clay, Red-Brown, very silty, micaceous, moist						HNU Readings
5		1	2-2-3	100%			65 ppm
	Clay, Tan and gray, stiff, fine sandy, slightly silty, some gravel present, moist						
10		2	2-4-5	100%			35ppm
15	Residuum: Sand, coarse, brown, slightly silty, micaceous, moist	3	3-4-7	100 %			10 ppm
20	Boring complete at 17.6 Feet						

DRILLING & SAMPLING MEETS ASTM D-1586 & ASTM D-1587

PAGE 1 OF 1

SUPERVISOR N. JARRIO

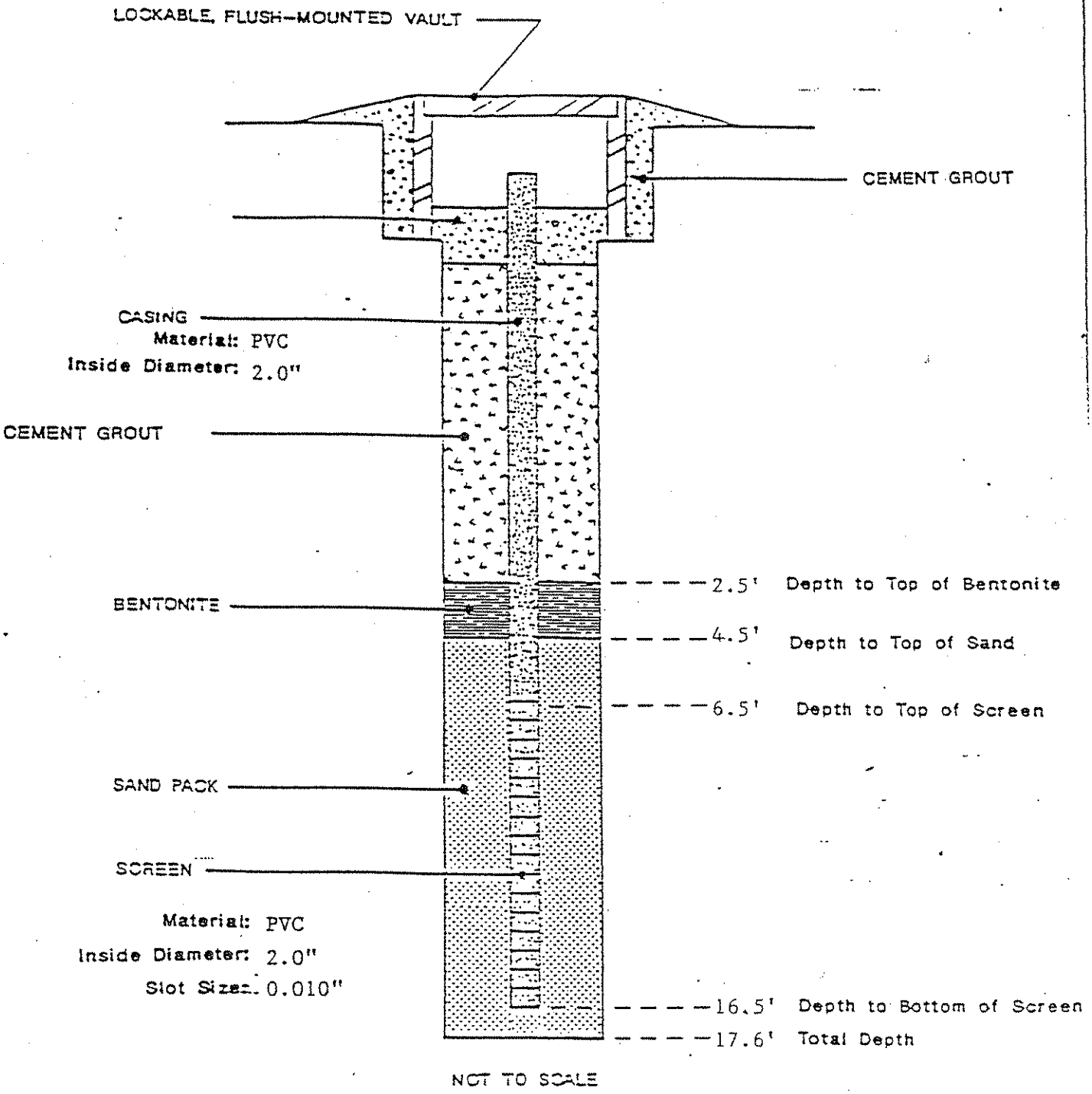
LOCATION NO. MW-4 (102-09)

RIG TYPE B-57

DATE DRILLED 3-13-89

WEATHER Windy,cool, 60°

JOB NO. 0000-89-097



All Depths Referenced From Ground Surface

Westinghouse
Environmental Services

Well Schematic
Monitor Well MW-4
Tenneco Facility No. 102-09
Chamblee, Georgia
WGR Job No. 0000-89-097

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-4R** PAGE 1 OF 2 SECOR
DRILLING: STARTED **12/14/06** COMPLETED: **12/14/06** INSTALLATION: STARTED **12/14/06** COMPLETED: **12/14/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **23.0** WELL CASING DIAMETER (in): **2** BOREHOLE DIAMETER (in): **8** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML	**SILT WITH SAND** ; ML; 7.5YR 6/1 gray; non plastic; soft; moist; no odor; poorly graded		MW-4R@ 2-3'	5		15.5		2 inch diameter PVC blank casing; Bentonite chips seal
5		ML	**SILT TRACE MICA** ; ML; 10YR 4/4 yellowish brown; low plasticity; soft; moist; slight odor		MW-4R@ 6-7'	2	1 2 2 2	20.7	5	
10		ML	**SILT TRACE MICA** ; ML; GLEY 10Y 5/1 gray; low plasticity; soft; moist; slight odor		1245 MW-4R	2	2 3 2 3	42.2	10	10/30 silica sand pack
15		ML	**SILT** ; ML; GLEY 1 7/N AND 10YR 5/8 light gray with yellowish brown; non plastic; soft; moist; no odor; wet at 16'-20', some coarse to medium angular gravel at 19'-20'		MW-4R@ 15-16'	2	2 3 3 3	2.8	15	2 inch diameter PVC 0.010 inch slotted screen
							6 6			

PROJECT: **EZ Serve North Peachtree**
LOCATION: **Chamblee, GA**
PROJECT NUMBER: **21OT.06203.05**

WELL / PROBEHOLE / BOREHOLE NO: **MW-4R** PAGE 2 OF 2

SECOR

DRILLING: STARTED **12/14/06** COMPLETED: **12/14/06**
INSTALLATION: STARTED **12/14/06** COMPLETED: **12/14/06**
DRILLING COMPANY: **Betts**
DRILLING EQUIPMENT: **Diedrick 120**
DRILLING METHOD: **Hollow Stem Auger**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft):
EASTING (ft):
LATITUDE:
LONGITUDE:
GROUND ELEV (ft):
TOC ELEV (ft):
INITIAL DTW (ft): **NE**
BOREHOLE DEPTH (ft): **23.0**
STATIC DTW (ft): **NE**
WELL DEPTH (ft): **23.0**
WELL CASING DIAMETER (in): **2**
BOREHOLE DIAMETER (in): **8**
LOGGED BY: **C. Beall**
CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML	**SILT** ; ML; 5YR 5/8 yellowish red; non plastic; hard; dry; no odor		- MW-4R@ 20-21'	.7	9 12	3.6		
			Hole terminated at 23 feet.							2 inch diameter PVC pipe cap
25									25	
30									30	
35									35	

GEO FORM 304 GUST1.GPJ SECOR INTL.GDT 10/16/07

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-10R** PAGE 1 OF 2 SECOR
DRILLING: STARTED **12/13/06** COMPLETED: **12/13/06** INSTALLATION: STARTED **12/13/06** COMPLETED: **12/13/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **23.0** WELL CASING DIAMETER (in): **4** BOREHOLE DIAMETER (in): **11** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML	**SILT TRACE FINE SAND** ; ML; 2.5YR 4/8 red; non plastic; soft; dry; slight odor		- MW-10R@ 2-3'	5				4 inch diameter PVC blank casing; Bentonite chips seal
5									5	
		ML	**SANDY SILT WITH MICA** ; ML; 7.5YR 5/8 brown; non plastic; stiff; dry; slight odor		- MW-10R@ 6-7'	2	1 1 1 2	76.8		
		CL	**CLAY** ; CL; 7.5YR 5/1 gray; high plasticity; soft; moist; strong odor; hydrocarbon staining		0845 MW-10R	2	1 1 2 2	228		
10									10	10/30 silica sand pack
		ML	**SANDY SILT** ; ML; 7.5YR 5/1 gray; low plasticity; soft; moist; slight odor		- MW-10R@ 15-16'	2	2 2 3 2	86.8		
15									15	4 inch diameter PVC 0.010 inch slotted screen
		ML	**SILT** ; ML; 7.5YR 8/3 AND 7.5YR 6/8 WITH 7.5YR 2.5/1 pink and reddish yellow; low plasticity; soft; moist; slight odor; with fractures				2 2			

PROJECT: **EZ Serve North Peachtree**
LOCATION: **Chamblee, GA**
PROJECT NUMBER: **21OT.06203.05**

WELL / PROBEHOLE / BOREHOLE NO:
MW-10R PAGE 2 OF 2

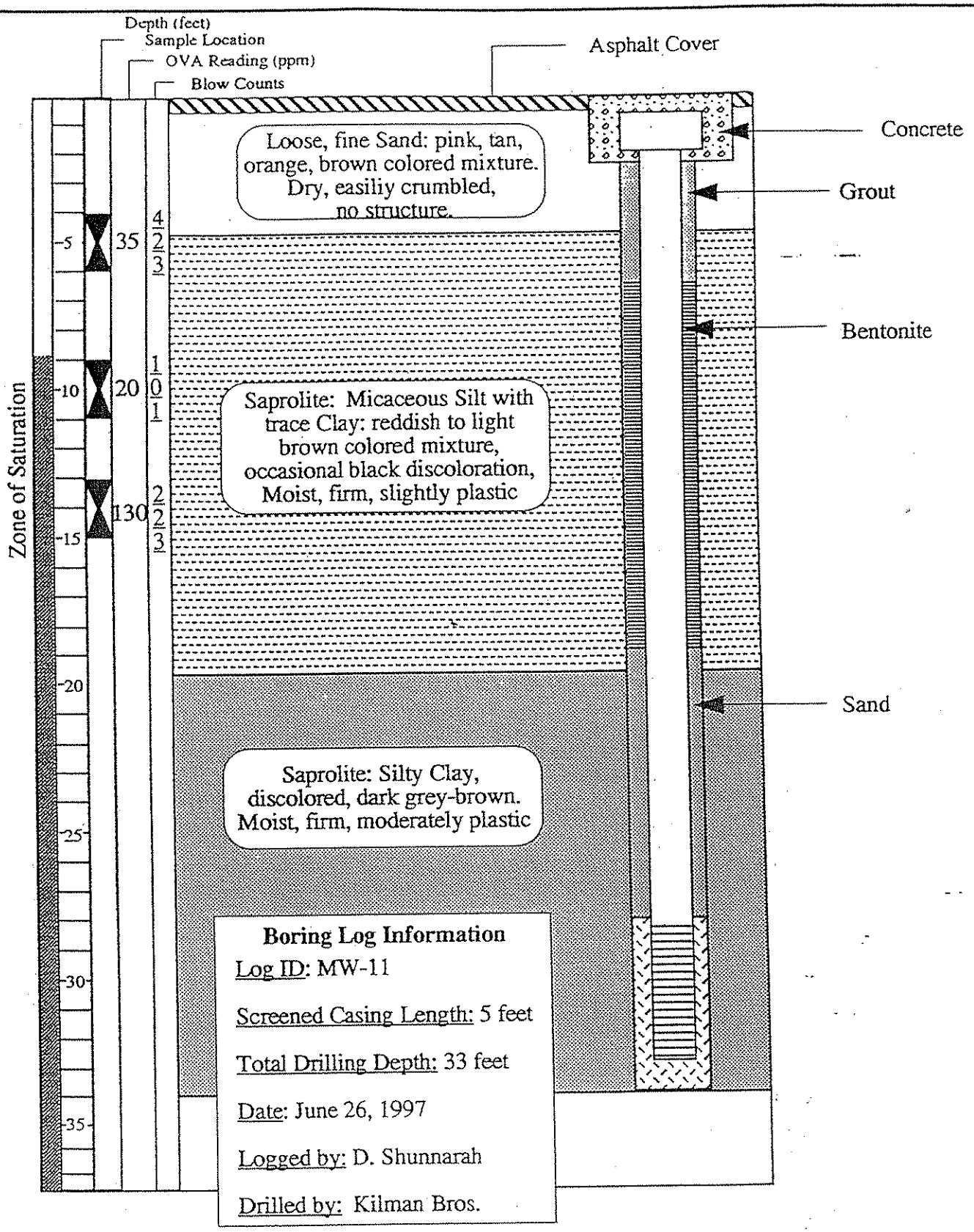
SECOR

DRILLING: STARTED **12/13/06** COMPLETED: **12/13/06**
INSTALLATION: STARTED **12/13/06** COMPLETED: **12/13/06**
DRILLING COMPANY: **Betts**
DRILLING EQUIPMENT: **Diedrick 120**
DRILLING METHOD: **Hollow Stem Auger**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft):
LATITUDE:
GROUND ELEV (ft):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
WELL CASING DIAMETER (in): **4**
LOGGED BY: **C. Beall**

EASTING (ft):
LONGITUDE:
TOC ELEV (ft):
BOREHOLE DEPTH (ft): **23.0**
WELL DEPTH (ft): **23.0**
BOREHOLE DIAMETER (in): **11**
CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML			- MW-10R@ 20-21'	2	3 4	26.7		
			Hole terminated at 23 feet.							4 inch diameter PVC pipe cap
25									25	
30									30	
35									35	



Note: Auger refusal at 33 feet.

E-Z Serve Convenience Stores, Inc.	Facility #: 8102 GA EPD #: 9000341	**Monitor Well Installation**
)8 North Peachtree Road, Chamblee, Georgia	Drafted by: D. Shunnarah	**Date:** July 29, 1997
ESCM Technology, Inc. 1781 Mars Hill Road	Proprietary Drawing - Property of ESCM	**MW-11**

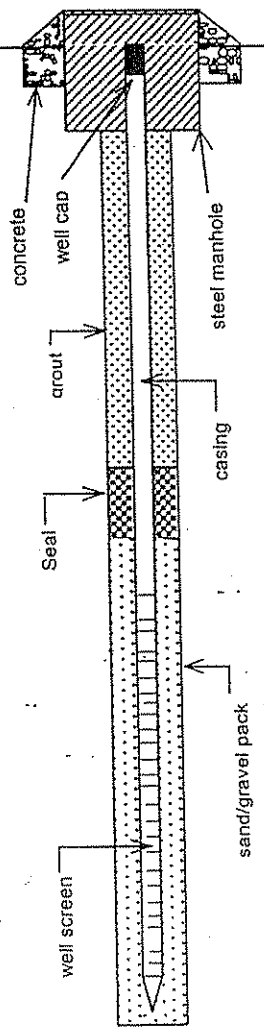
WELL LOG: MW-12

Handex

rmit #		Drill Date	01/09/02	Site	EZ-Serve 8102
Client	*EZ-Serve*	Use	**Monitoring Well**	Handex Loc. #	121415
Site Address	**4308 North Peachtree Road**			Total Depth (ft)	20
Drilling Method	**Hollow Stem**	Boring Depth (ft)	21	Boring Diam. (in)	8.25
Casing/Scrn. Mat	**Sch -40 PVC**	Csg/Scrn Diam (in)	2	Csg Length(ft)	5
Grout Type	**Cement**	Grout Interval (ft)	0 to 1.5	Scrn Length (ft)	15
Csg Seal Type	**Bentonite**	Seal Interval (ft)	1.5 to 3	Scrn Slot Size (in)	0.010
Sand Pack Type	**10/20 Silica**	Sand Interval (ft)	3 to 20	Static Water Level	***19.50***
Rmrks	***4' riser added***	TOC Elevation (ft)		Sample Method	***Split Spoon***

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm) unf/fil	Geologic Description
0					Brown, clay loam, high is organics
5	1*	5		52	Tan brown-gray, silty fine to medium sand
10	2	8.0-10 10-11.5	shelby tube 2,1,2	8.5	Gray clay to sand, alluvial rocks
15	3	13.5-15		18.89	Gray clayey sand
20	4	18.5-20	4,7,14	1313	
25					

Typical Diagram



Not to Scale

Notes:

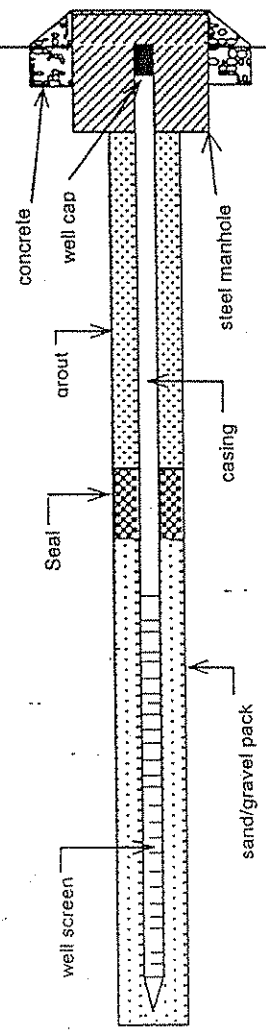
ologist: **Jordan Garrard** | Driller: **Piedmont Environmental**

WELL LOG: MW-13

Permit #		Drill Date	01/09/02	Site	EZ-Serve 8102
Client	*EZ-Serve*	Use	**Monitoring Well**	Handex Loc. #	121415
Site Address	**4308 North Peachtree Road**			Total Depth (ft)	20
Drilling Method	**Hollow Stem**	Boring Depth (ft)	**21**	Boring Diam. (in)	8.25
Casing/Scrn. Mat	**Sch -40 PVC**	Csg/Scrn Diam (in)	**2**	Csg Length(ft)	5
Grout Type	**Cement**	Grout Interval (ft)	**0** to **1.5**	Scrn Length (ft)	15
Csg Seal Type	**Bentonite**	Seal Interval (ft)	**1.5** to **3**	Scrn Slot Size (in)	0.010
Sand Pack Type	**10/20 Silica**	Sand Interval (ft)	**3** to **20**	Static Water Level	*19.50*
Rmrks	***4' riser***	TOC Elevation (ft)		Sample Method	***Split Spoon***

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm) unf/fil	Geologic Description
0					Light brown clayey silt
5	1	5		2.56	
					Red sandy clay to gray clay
10	2*	8.5-10	1,1,2	98	
					Light brown silty clay to gray sand Gray clayey sand
15	3	13.5-15	1,1,1	240	
					Gray clay, wet
20	4	18.5-20	4,7,14	0	
25					

Typical Diagram



Not to Scale

Notes:

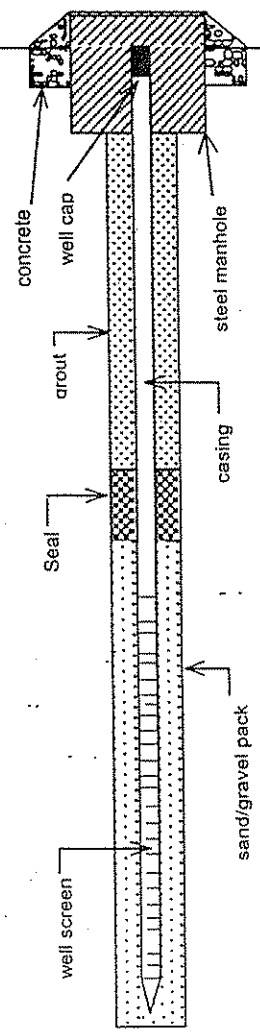
Geologist: **Jordan Garrard** | Driller: **Piedmont Environmental**

WELL LOG: MW-14

rmit #		Drill Date	01/09/02	Site	EZ-Serve 8102
Client *EZ-Serve*		Use	**Monitoring Well**	Handex Loc. #	121415
Site Address	**4308 North Peachtree Road**			Total Depth (ft)	20
Drilling Method	**Hollow Stem**	Boring Depth (ft)	23	Boring Diam. (in)	8.25
Casing/Scrn. Mat	**Sch -40 PVC**	Csg/Scrn Diam (in)	2	Csg Length(ft)	5
Grout Type	**Cement**	Grout Interval (ft)	0 to 1.5	Scrn Length (ft)	15
Csg Seal Type	**Bentonite**	Seal Interval (ft)	1.5 to 3	Scrn Slot Size (in)	0.010
Sand Pack Type	**10/20 Silica**	Sand Interval (ft)	3 to 20	Static Water Level	*19.50*
Rmrks *4' riser*		TOC Elevation (ft)		Sample Method	***Split Spoon***

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm) unf/fil	Geologic Description
0					Light brown clayey silt
5	1*	5		203	
					light brown clayey silt
10	2	8.5-10		7	
					Gray clay, wet
15	3	13.5-15	2,2,2	93	
					Gray clay, wet
20					
25					

Typical Diagram



Not to Scale

Notes:

ologist:	**Jordan Garrard**	Driller:	**Piedmont Environmental**

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-15** PAGE 1 OF 2 SECOR
DRILLING: STARTED **12/13/06** COMPLETED: **12/13/06** INSTALLATION: STARTED **12/13/06** COMPLETED: **12/13/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **23.0** WELL CASING DIAMETER (in): **4** BOREHOLE DIAMETER (in): **11** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML	**SANDY SILT** ; ML; 7.5YR 5/4 brown; non plastic; soft; moist; slight odor; poorly graded; fine to medium sand		MW-15@ 2-3'	5		107		4 inch diameter PVC blank casing; Bentonite chips seal
5		ML	**SILT WITH FINE SAND AND FINE GRAVEL** ; ML; 7.5YR 5/8 brown; non plastic; stiff; moist; slight odor		1200 MW-15	.9	1 5 2 2	218	5	
10		ML	**SILT** ; ML; 7.5YR 4/3 brown; non plastic; stiff; moist; slight odor		MW-15@ 10-11'	2	2 2 3 4	158	10	10/30 silica sand pack
15		ML	**SILT** ; ML; 5YR 4/6 yellowish red; non plastic; soft; moist; slight odor		MW-15@ 15-16'	2	1 2 3 4	485	15	4 inch diameter PVC 0.010 inch slotted screen
		ML	**SILT** ; ML; 5YR 5/8 yellowish red; non plastic; soft; moist; slight odor				1 2			

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-15** PAGE 2 OF 2 SECOR
DRILLING: STARTED **12/13/06** COMPLETED: **12/13/06** INSTALLATION: STARTED **12/13/06** COMPLETED: **12/13/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **23.0** WELL CASING DIAMETER (in): **4** BOREHOLE DIAMETER (in): **11** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML			- MW-15@ 20-21'	2	2 3	22.4		
			Hole terminated at 23 feet.							4 inch diameter PVC pipe cap
25									25	
30									30	
35									35	

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-16** PAGE 1 OF 2 SECOR
DRILLING: STARTED **12/13/06** COMPLETED: **12/13/06** INSTALLATION: STARTED **12/13/06** COMPLETED: **12/13/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **23.0** WELL CASING DIAMETER (in): **2** BOREHOLE DIAMETER (in): **8** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
			TOPSOIL							2 inch diameter PVC blank casing
		ML	**SILT TRACE MEDIUM TO COARSE GRAVEL** ; ML; 5YR 4/6 yellowish red; non plastic; soft; dry; no odor		MW-16@ 2-3'	5		.4		Bentonite chips seal
5		ML	**SANDY SILT WITH FINE SAND** ; ML; 7.5YR 4/3 brown; non plastic; stiff; moist; no odor		MW-16@ 6-7'	2	2 2 3 3	2.1	5	
		ML	**SILT** ; ML; GLEY 1 N/6 gray; non plastic; soft; moist; slight odor; wet at 14'		1335 MW-16	2	2 2 2 3	4.5	10	10/30 silica sand pack
15					MW-16@ 15-16'	2	3 4 5 4	3.2	15	2 inch diameter PVC 0.010 inch slotted screen
		ML	**SILT** ; ML; 10YR 5/8 yellowish brown; non plastic; stiff; dry; no odor; laminated				3 4			

PROJECT: **EZ Serve North Peachtree**
LOCATION: **Chamblee, GA**
PROJECT NUMBER: **21OT.06203.05**

WELL / PROBEHOLE / BOREHOLE NO: **MW-16** PAGE 2 OF 2

SECOR

DRILLING: STARTED **12/13/06** COMPLETED: **12/13/06**
INSTALLATION: STARTED **12/13/06** COMPLETED: **12/13/06**
DRILLING COMPANY: **Betts**
DRILLING EQUIPMENT: **Diedrick 120**
DRILLING METHOD: **Hollow Stem Auger**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft):
EASTING (ft):
LATITUDE:
LONGITUDE:
GROUND ELEV (ft):
TOC ELEV (ft):
INITIAL DTW (ft): **NE**
BOREHOLE DEPTH (ft): **23.0**
STATIC DTW (ft): **NE**
WELL DEPTH (ft): **23.0**
WELL CASING DIAMETER (in): **2**
BOREHOLE DIAMETER (in): **8**
LOGGED BY: **C. Beall**
CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML			- MW-16@ 20-21'	2	10 12	1.2		
			Hole terminated at 23 feet.							2 inch diameter PVC pipe cap
25									25	
30									30	
35									35	

GEO FORM 304 GUST1.GPJ SECOR INTL.GDT 10/16/07

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-17** PAGE 1 OF 2 SECOR
DRILLING: STARTED **12/12/06** COMPLETED: **12/12/06** INSTALLATION: STARTED **12/12/06** COMPLETED: **12/12/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **23.0** WELL CASING DIAMETER (in): **4** BOREHOLE DIAMETER (in): **11** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
			ASPHALT							4 inch diameter PVC blank casing
		ML	**SILT WITH FINE SAND** ; ML; 5YR 5/1 gray; non plastic; dry; strong odor; color change to yellowish red 5YR 5/8 at 9.5'		MW-17@ 2-3'	5		195		Bentonite chips seal
5					MW-17@ 6-7'	2	1 1 2 2	1296	5	
10					MW-17@ 10-11'	2	1 2 2 3	1823	10	10/30 silica sand pack
15		CL	**CLAY WITH SILT** ; CL; 5YR 5/8 AND 5YR 5/1 yellowish red and gray; non plastic; moist; strong odor		1510 MW-17	2	2 3 4 5	2687	15	4 inch diameter PVC 0.010 inch slotted screen
		ML	ML; soupy gray water and product with strong odor							
		ML	**SILT** ; ML; 5YR 5/8 yellowish red; non plastic;				2 6			

GEO FORM 304 GUST1.GPJ SECOR INTL.GDT 10/16/07

PROJECT: **EZ Serve North Peachtree**
LOCATION: **Chamblee, GA**
PROJECT NUMBER: **21OT.06203.05**

WELL / PROBEHOLE / BOREHOLE NO: **MW-17**

SECOR

DRILLING: STARTED **12/12/06** COMPLETED: **12/12/06**
INSTALLATION: STARTED **12/12/06** COMPLETED: **12/12/06**
DRILLING COMPANY: **Betts**
DRILLING EQUIPMENT: **Diedrick 120**
DRILLING METHOD: **Hollow Stem Auger**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft):
EASTING (ft):
LATITUDE:
LONGITUDE:
GROUND ELEV (ft):
TOC ELEV (ft):
INITIAL DTW (ft): **NE**
BOREHOLE DEPTH (ft): **23.0**
STATIC DTW (ft): **NE**
WELL DEPTH (ft): **23.0**
WELL CASING DIAMETER (in): **4**
BOREHOLE DIAMETER (in): **11**
LOGGED BY: **C. Beall**
CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML	dry; no odor		MW-17@ 20-21'	2	7 8	2611		
			Hole terminated at 23 feet.							4 inch diameter PVC pipe cap
25									25	
30									30	
35									35	

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-18** PAGE 1 OF 2 SECOR
DRILLING: STARTED **12/12/06** COMPLETED: **12/12/06** INSTALLATION: STARTED **12/12/06** COMPLETED: **12/12/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **23.0** WELL CASING DIAMETER (in): **4** BOREHOLE DIAMETER (in): **11** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
			ASPHALT							4 inch diameter PVC blank casing
		CL	**CLAY WITH SILT AND FINE SAND** ; CL; 10YR 3/4 dark yellowish brown; high plasticity; stiff; moist; slight odor		MW-18@ 2-3'	5		87.1		Bentonite chips seal
5		ML	**SILT WITH FINE SAND AND MICA** ; ML; 10YR 6/3 pale brown; non plastic; soft; moist; slight odor		0915 MW-18	2	3 3 3 5	122	5	
		ML	**SILT** ; ML; 10YR 4/6 AND 10YR 5/1 dark yellowish brown and gray; non plastic; stiff; moist; slight odor		MW-18@ 10-11'	2	2 2 2 3	9.1		
10									10	10/30 silica sand pack
		CL	**CLAY TRACE SILT** ; CL; 10YR 3/6 dark yellowish brown; medium plasticity; stiff; wet; slight odor		MW-18@ 15-16'	2	3 2 2 3	8.0		
15									15	4 inch diameter PVC 0.010 inch slotted screen
		ML	**SILT** ; ML; 7.5YR 5/8 brown; medium plasticity; soft; wet; slight odor				2 2			

PROJECT: **EZ Serve North Peachtree**
LOCATION: **Chamblee, GA**
PROJECT NUMBER: **21OT.06203.05**

WELL / PROBEHOLE / BOREHOLE NO:
MW-18 PAGE 2 OF 2

SECOR

DRILLING: STARTED **12/12/06** COMPLETED: **12/12/06**
INSTALLATION: STARTED **12/12/06** COMPLETED: **12/12/06**
DRILLING COMPANY: **Betts**
DRILLING EQUIPMENT: **Diedrick 120**
DRILLING METHOD: **Hollow Stem Auger**
SAMPLING EQUIPMENT: **Split Spoon**

NORTHING (ft):
LATITUDE:
GROUND ELEV (ft):
INITIAL DTW (ft): **NE**
STATIC DTW (ft): **NE**
WELL CASING DIAMETER (in): **4**
LOGGED BY: **C. Beall**

EASTING (ft):
LONGITUDE:
TOC ELEV (ft):
BOREHOLE DEPTH (ft): **23.0**
WELL DEPTH (ft): **23.0**
BOREHOLE DIAMETER (in): **11**
CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML			MW-18@ 20-21'	2	2 3	6.7		
			Hole terminated at 23 feet.							4 inch diameter PVC pipe cap
25									25	
30									30	
35									35	

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-19** PAGE 1 OF 2 SECOR
DRILLING: STARTED **12/12/06** COMPLETED: **12/12/06** INSTALLATION: STARTED **12/12/06** COMPLETED: **12/12/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **23.0** WELL CASING DIAMETER (in): **4** BOREHOLE DIAMETER (in): **11** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
			ASPHALT							4 inch diameter PVC blank casing
		CL	**CLAY WITH SILT AND FINE SAND** ; CL; 10YR 3/4 dark yellowish brown; high plasticity; stiff; moist; slight odor		MW-19@ 2-3'	5		59.5		Bentonite chips seal
5		ML	**SILT WITH FINE SAND** ; ML; 7.5 YR 4/2 brown; non plastic; moist; slight odor		MW-19@ 6-7'	2	1 1 1 1	39.2	5	
10		ML	**SILT** ; ML; 10YR 5/8 AND 10YR 5/1 yellowish brown gray; low plasticity; moist; slight odor		1230 MW-19	2	1 1 2 3	57.7	10	10/30 silica sand pack
15		SW	**SAND FINE TO COARSE SAND** ; SW; 10YR 4/3 brown; medium dense; moist; no odor		MW-19@ 15-16'	2	2 2 2 2 2 3	10.2	15	4 inch diameter PVC 0.010 inch slotted screen

PROJECT: **EZ Serve North Peachtree** LOCATION: **Chamblee, GA** PROJECT NUMBER: **21OT.06203.05**	WELL / PROBEHOLE / BOREHOLE NO: **MW-19** PAGE 2 OF 2 SECOR
DRILLING: STARTED **12/12/06** COMPLETED: **12/12/06** INSTALLATION: STARTED **12/12/06** COMPLETED: **12/12/06** DRILLING COMPANY: **Betts** DRILLING EQUIPMENT: **Diedrick 120** DRILLING METHOD: **Hollow Stem Auger** SAMPLING EQUIPMENT: **Split Spoon**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **23.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **23.0** WELL CASING DIAMETER (in): **4** BOREHOLE DIAMETER (in): **11** LOGGED BY: **C. Beall** CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
		ML	**SILT** ; ML; GLEY 1 5G 5/1 greenish gray; medium dense; moist; no odor; laminated; color change to yellowish red 5YR 5/8 at 20.5		- MW-19@ 20-21'	2	5 7	3.2		
			Hole terminated at 23 feet.							4 inch diameter PVC pipe cap
25									25	
30									30	
35									35	

PROJECT: **EZ Serve** LOCATION: **N. Peachtree** PROJECT NUMBER: **21OT.07203.06**	WELL / PROBEHOLE / BOREHOLE NO: **MW-20** PAGE 1 OF 1 SECOR
DRILLING: STARTED **6/12/07** COMPLETED: **6/12/07** INSTALLATION: STARTED **6/12/07** COMPLETED: **6/12/07** DRILLING COMPANY: **Bear Environmental** DRILLING EQUIPMENT: **Geoprobe 6610DT** DRILLING METHOD: **hollow stem auger** SAMPLING EQUIPMENT: **2-inch x 60-inch sampler**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **25.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): --- WELL CASING DIAMETER (in): --- BOREHOLE DIAMETER (in): LOGGED BY: **J. Brown** CHECKED BY: **D. Raede**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
		ML	Soft; dry; TOPSOIL; few large GRAVEL& CONCRETE pieces							cement grout
			SILT SOME SAND ; ML; dark brown to light tan; loose							
		SM	**SILTY SAND** ; SM; dark brownish gray; soft; dry; moist by 4'		MW-20-0-4'			0.0		bentonite seal
					MW-20-4-5'			0.7		2" SCH40 blank PVC casing
5		CL	**CLAY** ; CL; brown; medium plasticity; very soft; moist; grades from SM to CL @ 7'; moist to wet @ 8'		MW-20-5-10'	4.75		0.0	5	
		CL	**CLAY** ; CL; light grayish blue with olive; medium plasticity; soft; mottled							
10					9:40 MW-20 @ 10-12'			0.0	10	#2 filter pack sand
		ML	**SILT** ; ML; light gray; medium plasticity; moist; iron oxide staining; mottled; becomes very dark brown to black @ 19'			4.5				
					MW-20-12-15'			0.0		2" SCH40 0.010" slotted PVC screen
15									15	
						5				
20		ML	**SILTY SAND** ; ML; very light gray; medium plasticity; moist; no odor; no staining						20	
		ML	**SILTY SAND** ; ML; blueish green; medium dense to soft; saturated							
		ML	**SILTY SAND** ; ML; brownish tan; medium dense to soft; dry							
25			Hole terminated at 25 feet.						25	

PROJECT: **EZ Serve** LOCATION: **N. Peachtree** PROJECT NUMBER: **21OT.07203.06**	WELL / PROBEHOLE / BOREHOLE NO: **MW-21** PAGE 1 OF 1 SECOR
DRILLING: STARTED **6/12/07** COMPLETED: **6/12/07** INSTALLATION: STARTED **6/12/07** COMPLETED: **6/12/07** DRILLING COMPANY: **Bear Environmental** DRILLING EQUIPMENT: **Geoprobe 6610DT** DRILLING METHOD: **hollow stem auger** SAMPLING EQUIPMENT: **2-inch x 60-inch sampler**	NORTHING (ft): EASTING (ft): LATITUDE: LONGITUDE: GROUND ELEV (ft): TOC ELEV (ft): INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **25.0** STATIC DTW (ft): **NE** WELL DEPTH (ft): **---** WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): LOGGED BY: **J. Brown** CHECKED BY: **D. Raede**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Reddish brown; dry; TOPSOIL							cement grout
		SM	**SILTY SAND** ; SM; reddish brown; loose; dry; some white medium course sub-rounded SAND FRAGMENTS		MW-21-0-7'			0.0		bentonite seal; 2" SCH40 blank PVC casing
		SM	**SILTY SAND** ; SM; light tan and light gray; loose; dry; no odor; no staining; mottled							
5		ML	**SILT SOME SAND** ; ML; brownish tan with light gray; non plastic; soft; moist						5	
		ML	**SILT SOME SAND TRACE FINE SAND** ; ML; greenish gray with dark olive; non plastic; medium dense; moist; little reddish brown; very moist @ 9-10'		MW-21-7-9'	5		0.3		
10		ML	**SILT** ; ML; brownish green; slight odor		MW-21-9-11'			4.3	10	#2 filter pack sand
					MW-21-11-13'	5		1.5		
		SM	**SILTY SAND** ; SM; brownish green; slight odor		11:30 MW-21 @ 13-15'			55.1		2" SCH40 0.010" slotted PVC screen
15		ML	**SILT** ; ML; brown to reddish brown; very soft; dry; no odor; black flacky mineral rich/organic black seams @ 18-18.5'		MW-21-15-17'			2.5	15	
					MW-21-17-19'	4.5		0.0		
20			Sample jammed; could not pull out liner; will pressure wash to set free						20	
25			Hole terminated at 25 feet.						25	

PROJECT: **EZ Serve**
LOCATION: **N. Peachtree**
PROJECT NUMBER: **21OT.07203.06**

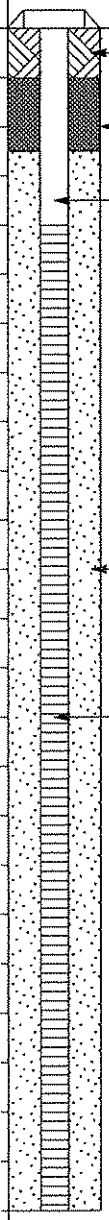
WELL / PROBEHOLE / BOREHOLE NO: **MW-22** PAGE 1 OF 1

SECOR

DRILLING: STARTED **6/12/07**	COMPLETED: **6/12/07**	NORTHING (ft):	EASTING (ft):
INSTALLATION: STARTED **6/12/07**	COMPLETED: **6/12/07**	LATITUDE:	LONGITUDE:
DRILLING COMPANY: **Bear Environmental**		GROUND ELEV (ft):	TOC ELEV (ft):
DRILLING EQUIPMENT: **Geoprobe 6610DT**		INITIAL DTW (ft): **NE**	BOREHOLE DEPTH (ft): **25.0**
DRILLING METHOD: **hollow stem auger**		STATIC DTW (ft): **NE**	WELL DEPTH (ft): **---**
SAMPLING EQUIPMENT: **2-inch x 60-inch sampler**		WELL CASING DIAMETER (in): **---**	BOREHOLE DIAMETER (in):
		LOGGED BY: **J. Brown**	CHECKED BY: **D. Raede**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
		SM	ASPHALT with some GRAVEL below **SANDY SILT** ; SM; light reddish brown; loose; moist		MW-22-0-1'			118	
					MW-22-1-2'			107 136	
					MW-22-2-3'			396	
					MW-22-3-4'			1973	
5		ML	**SILT** ; ML; dark gray and brown; non plastic; medium stiff; moist; slight odor						5
		ML	**SILT** ; ML; reddish tan; non plastic; medium stiff; moist; slight odor		MW-22-4-5'			462	
					MW-22-5-7'			1688	
					MW-22-7-9'				
10		ML	**SILT** ; ML; brown and greenish brown; soft; slight odor; dry to moist		MW-22-9-11'			1832	10
					MW-22-11-13'			1401	
					14:00 MW-22 @ 13-15'			1299	
15		ML	**SILT** ; ML; brown and greenish brown; soft; dry; slight odor; very greenish color and dry to slightly moist @ 16-17'		MW-22-15-17'	20		1649	15
		ML	**SILT** ; ML; light reddish brown; dense; dry; slight odor		MW-22-17-19'			237	
20		SM	**SANDY SILT** ; SM; medium dense; moist		MW-22-19-21'			648	20
		ML	**SILT** ; ML; many black organic bands @ 23.5-25'; odor seems to fade out		MW-22-21-23'			1000	
					MW-22-23-25'			6.7	
25			Hole terminated at 25 feet.						25

Borehole Backfill



PROJECT: **EZ Serve**
LOCATION: **4308 North Peachtree, Chamblee, Georgia**
PROJECT NUMBER: **21OT.07203.06.0001**

WELL / PROBEHOLE / BOREHOLE NO: **MW-23D** PAGE 1 OF 2

SECOR

DRILLING: STARTED **6/18/07** COMPLETED: **6/18/07**
INSTALLATION: STARTED **6/18/07** COMPLETED: **6/18/07**
DRILLING COMPANY: **Drilling Solutions, Inc.**
DRILLING EQUIPMENT: **D50 drill rig**
DRILLING METHOD: **hollow stem augers**
SAMPLING EQUIPMENT: **2-inch x 48-inch split spoon sampler**

NORTHING (ft):
LATITUDE:
GROUND ELEV (ft):
INITIAL DTW (ft): **15 6/18/07**
STATIC DTW (ft): **NE**
WELL CASING DIAMETER (in): **2**
LOGGED BY: **A. Riemer**

EASTING (ft):
LONGITUDE:
TOC ELEV (ft):
BOREHOLE DEPTH (ft): **58.0**
WELL DEPTH (ft): **58.0**
BOREHOLE DIAMETER (in): **8.25**
CHECKED BY: **D. Raede**

Time & Depth (feet)	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)
10:00		**ASPHALT**; approximately 6 inches					
10:05	ML	**SANDY SILT TRACE GRAVEL** ; ML; 5 YR 4/6 yellowish red; medium dense; moist; slight HC odor		10:05 MW-23D (0-1')	.5		0.8
10:10	ML	**SILT** ; ML; 5 YR 4/6 yellowish red; medium dense to dense; moist; slight HC odor		10:10 MW-23D (1-2')	1		1.1
10:15				10:15 MW-23D (2-3')	1		0.8
10:20	ML	2.5 Y 7/3 pale yellow; medium dense		10:20 MW-23D (3-4')	1		1.7
10:25	ML	**SAND TRACE GRAVEL** ; ML; 2.5 Y 6/2 light yellowish brown with reddish orange; medium dense; moist; slight HC odor		10:25 MW-23D (4-5')	1		4.8
10:30 (5)		**SILT TRACE CLAY** ; ML; 10 YR 4/6 dark yellowish brown with yellowish brown; medium dense; moist; slight HC odor		10:30 MW-23D (5-7')	2	1 3 4 4	6.0
		5 Y 5/1 gray; moist; moderate HC odor		10:35 MW-23D (7-9')	2	1 3 3 3	28.4
10:35	CL-ML	**SILTY CLAY** ; CL-ML; 5 Y 5/2; olive gray; medium dense; moist; moderate HC odor		10:40 MW-23D (9-11')	2	2 1 2 3	260
10:40	ML	**SILT** ; ML; 5 Y 6/1 gray with brown; medium dense; moist; moderate HC odor		10:45 MW-23D (11-13')	2	2 2 4 4	320
10:45				10:47 MW-23D (13-15')	2	2 1 2 1	21.6
10:47	ML	**CLAYEY SILT** ; ML; 2.5 Y 4/2 dark grayish brown; medium dense; moist; slight HC odor		10:50 MW-23D (15-17')	2	1 1 1 2	15.1
10:50 (15)	ML	**SILT TRACE SAND** ; ML; 5 Y 6/2; light olive gray; moist to very moist; slight HC odor		10:55 MW-23D (18-20')	2	2 3 5 7	7.2
10:55	ML	**SILT** ; ML; 5 Y 8/3 pale yellow; medium dense; saturated; slight HC odor		11:10 MW-23D (23-25')	2		5.5
(20)							
11:10		10 YR 5/6 yellowish brown with brownish black; dense; moist; no odor		11:25 MW-23D (28-30')	2		2.5
(25)							
11:25	SW	**SAND TRACE GRAVEL AND FINE SAND** ; SW; 10 YR 5/6 yellowish brown with black; coarse-grained; dense to very dense; moist; no odor					

Depth (feet): 5, 10, 15, 20, 25

Well Construction:
- flush-mounted well box
- cement grout
- 2" Schedule 40 PVC riser

PROJECT: **EZ Serve**
LOCATION: **4308 North Peachtree, Chamblee, Georgia**
PROJECT NUMBER: **21OT.07203.06.0001**

WELL / PROBEHOLE / BOREHOLE NO: **MW-23D** PAGE 2 OF 2

SECOR

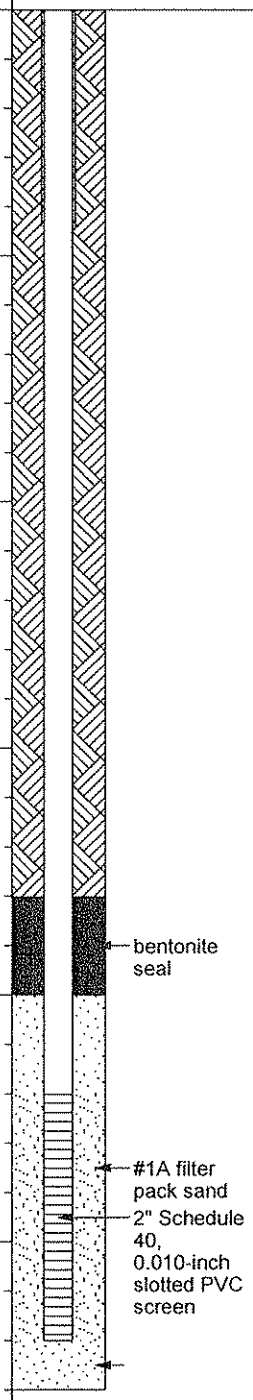
DRILLING: STARTED **6/18/07** COMPLETED: **6/18/07**
INSTALLATION: STARTED **6/18/07** COMPLETED: **6/18/07**
DRILLING COMPANY: **Drilling Solutions, Inc.**
DRILLING EQUIPMENT: **D50 drill rig**
DRILLING METHOD: **hollow stem augers**
SAMPLING EQUIPMENT: **2-inch x 48-inch split spoon sampler**

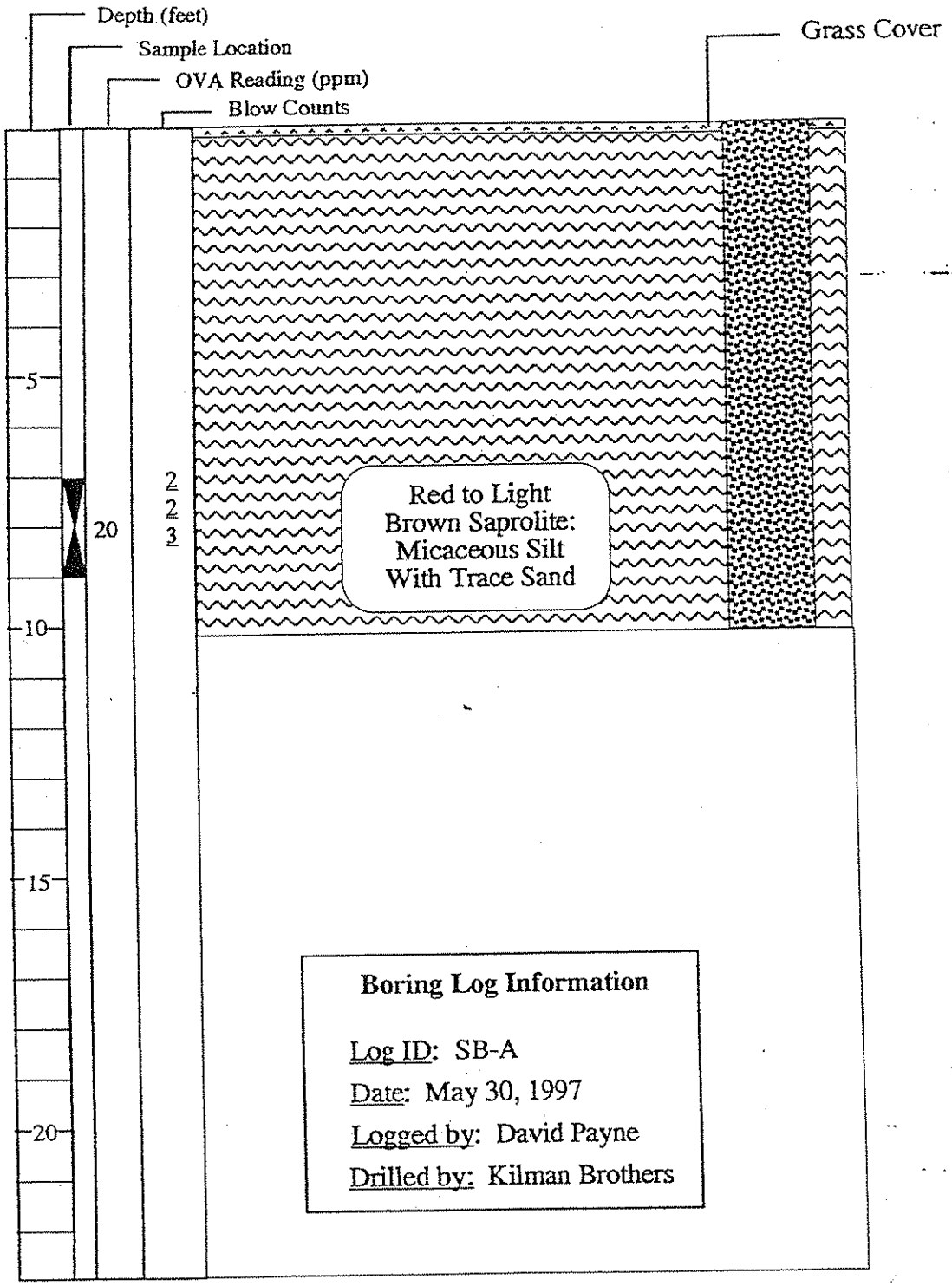
NORTHING (ft):
LATITUDE:
GROUND ELEV (ft):
INITIAL DTW (ft): **15 6/18/07**
STATIC DTW (ft): **NE**
WELL CASING DIAMETER (in): **2**
LOGGED BY: **A. Riemer**

EASTING (ft):
LONGITUDE:
TOC ELEV (ft):
BOREHOLE DEPTH (ft): **58.0**
WELL DEPTH (ft): **58.0**
BOREHOLE DIAMETER (in): **8.25**
CHECKED BY: **D. Raede**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
		SW							
11:45		ML	**SILT** ; ML; 7.5 YR 5/8; strong brown; dense to very dense; moist; no odor	X	11:45 MW-23D (33-35')	1.75	33 42 45 50	2.8	
35									35
12:10			2.5 Y 7/3 pale yellow	X	12:10 MW-23D (38-40')	2		0.6	
40									40
12:40			10YR 5/6 yellowish brown	X	12:40 MW-23D (43-45')	2		1.8	
45			Blind drilled						45
13:20 50									50
15:10 55									55
15:30			Refusal at 58 feet. Hole terminated at 58 feet.						

Well Construction





Boring Log Information

Log ID: SB-A
Date: May 30, 1997
Logged by: David Payne
Drilled by: Kilman Brothers

Z Serve Convenience Stores, Inc.	Facility #: 8102 GA EPD #: 9000341	**Soil Boring Log**
308 North Peachtree Road, Chamblee, Georgia	Drafted by: D. Shunnarah	**Date:** June 3, 1997
ESCM Technology, Inc. 1781 Mars Hill Road	Proprietary Drawing - Property of ESCM	**SB-A**

MONITOR WELL LOG - FLUSH MOUNT

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	1300	1400
Date	9/3/08	9/3/08

Well ID	FMW-1
Project No.	08096
Geol./Eng.	Joe King/L. Diprima
Driller	Atlas Geo Sampling

Top cap and lock

Ground surface

Concrete pad and 8 **-inch diameter, flush-mounted manhole**

Drainage gravel

71/4 -inch diameter borehole

Sch 40 PVC **riser pipe material**

2 **-inch diameter riser pipe**

15 **-ft. long riser pipe**

Type Grout

Type 1 A Portland

Type Seal

Pure Gold Bentonite Med Chip

Sch 40 PVC Screen Material

2 **-inch diameter screen**

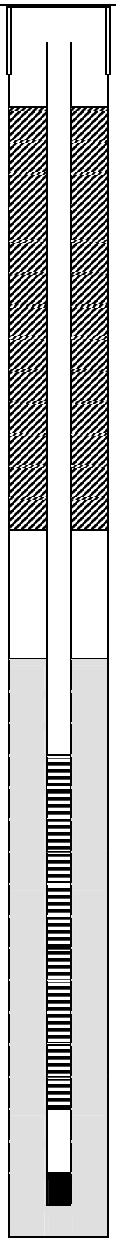
0.010 **-inch screen slot size**

10 **-ft. long screen**

Type Sandpack

Type 1 Filter Sand 20/30 Wash

.5 **-ft. long well plug/point**



Depth to top of riser pipe:
0 **ft. bgs**

Depth to top of grout seal:
.5 **ft. bgs**

Depth to top of seal:
2 **ft. bgs**

Depth to top of sandpack:
13 **ft. bgs**

Depth to top of screen:
15 **ft. bgs**

Depth to bottom of screen:
24.5 **ft. bgs**

Depth to bottom of well plug/point:
25 **ft. bgs**

Depth to bottom of borehole:
25 **ft. bgs**

MONITOR WELL LOG - FLUSH MOUNT

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	1110	1200
Date	9/3/08	9/3/08

Well ID	FMW-2
Project No.	08096
Geol./Eng.	Joe King/L. Diprima
Driller	Atlas Geo Sampling

Top cap and lock

Ground surface

Concrete pad and 8 **-inch diameter, flush-mounted manhole**

Drainage gravel

71/4 -inch diameter borehole

Sch 40 PVC **riser pipe material**

2 **-inch diameter riser pipe**

15 **-ft. long riser pipe**

Type Grout

Type 1 A Portland

Type Seal

Pure Gold Bentonite Med Chip

Sch 40 PVC Screen Material

2 **-inch diameter screen**

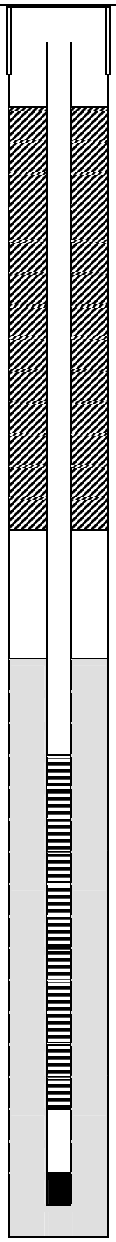
0.010 **-inch screen slot size**

10 **-ft. long screen**

Type Sandpack

Type 1 Filter Sand 20/30 Wash

.5 **-ft. long well plug/point**



Depth to top of riser pipe:
0 **ft. bgs**

Depth to top of grout seal:
.5 **ft. bgs**

Depth to top of seal:
2 **ft. bgs**

Depth to top of sandpack:
11 **ft. bgs**

Depth to top of screen:
13 **ft. bgs**

Depth to bottom of screen:
23 **ft. bgs**

Depth to bottom of well plug/point:
23.5 **ft. bgs**

Depth to bottom of borehole:
24 **ft. bgs**

MONITOR WELL LOG - FLUSH MOUNT

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	0950	1035
Date	9/3/08	9/3/08

Well ID	FMW-3
Project No.	08096
Geol./Eng.	Joe King/L. Diprima
Driller	Atlas Geo Sampling

Top cap and lock

Ground surface

Concrete pad and 8 **-inch diameter, flush-mounted manhole**

Drainage gravel

71/4 -inch diameter borehole

Sch 40 PVC **riser pipe material**

2 **-inch diameter riser pipe**

15 **-ft. long riser pipe**

Type Grout

Type 1 A Portland

Type Seal

Pure Gold Bentonite Med Chip

Sch 40 PVC Screen Material

2 **-inch diameter screen**

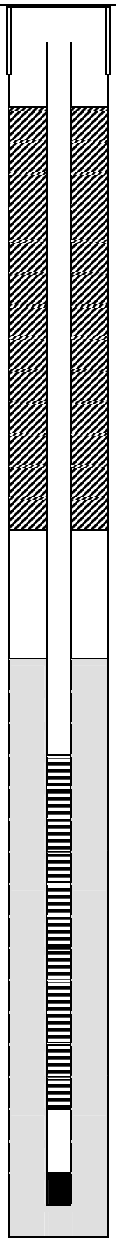
0.010 **-inch screen slot size**

10 **-ft. long screen**

Type Sandpack

Type 1 Filter Sand 20/30 Wash

.5 **-ft. long well plug/point**



Depth to top of riser pipe:
0 **ft. bgs**

Depth to top of grout seal:
.5 **ft. bgs**

Depth to top of seal:
2 **ft. bgs**

Depth to top of sandpack:
8 **ft. bgs**

Depth to top of screen:
10 **ft. bgs**

Depth to bottom of screen:
20 **ft. bgs**

Depth to bottom of well plug/point:
20.5 **ft. bgs**

Depth to bottom of borehole:
20.5 **ft. bgs**

MONITOR WELL LOG - FLUSH MOUNT

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	1000	1150
Date	9/4/08	9/4/08

Well ID	FMW-4
Project No.	08096
Geol./Eng.	Joe King/L. Diprima
Driller	Atlas Geo Sampling

Top cap and lock

Ground surface

Concrete pad and 8 **-inch diameter, flush-mounted manhole**

Drainage gravel

71/4 -inch diameter borehole

Sch 40 PVC **riser pipe material**

2 **-inch diameter riser pipe**

15 **-ft. long riser pipe**

Type Grout

Type 1 A Portland

Type Seal

Pure Gold Bentonite Med Chip

Sch 40 PVC Screen Material

2 **-inch diameter screen**

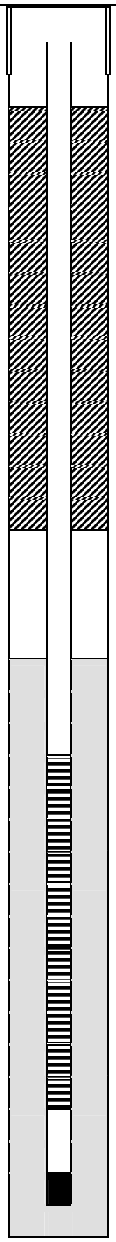
0.010 **-inch screen slot size**

10 **-ft. long screen**

Type Sandpack

Type 1 Filter Sand 20/30 Wash

.5 **-ft. long well plug/point**



Depth to top of riser pipe:
0 **ft. bgs**

Depth to top of grout seal:
.5 **ft. bgs**

Depth to top of seal:
2 **ft. bgs**

Depth to top of sandpack:
8 **ft. bgs**

Depth to top of screen:
10 **ft. bgs**

Depth to bottom of screen:
20 **ft. bgs**

Depth to bottom of well plug/point:
20.5 **ft. bgs**

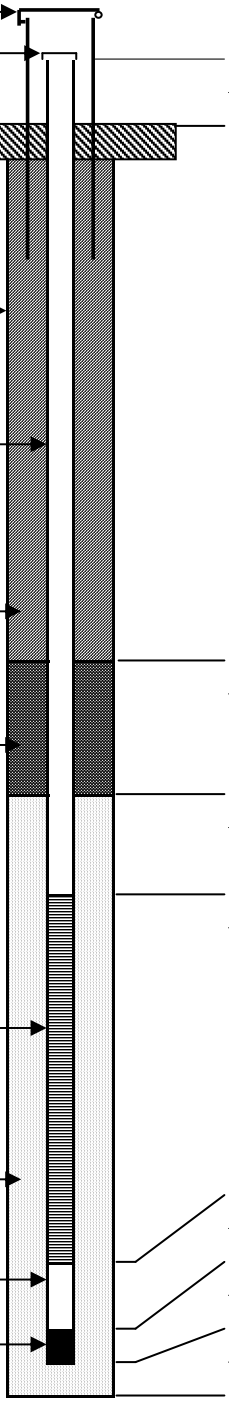
Depth to bottom of borehole:
20.5 **ft. bgs**

MONITOR WELL LOG - STICKUP

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time		
Date	9/4/08	9/4/08

Well ID	FMW-5
Project No. 8096	
Oversight: Joe King/L. Diprima	
Driller: Atlas GEO Sampling	



5 -ft. long protective casing with lock

Top cap

Height of top of riser pipe: 3.3 ft. ags

Ground surface

2 -ft. x 2 -ft. x 2 -ft. concrete pad

and -inch diam. or square protective casing

7¼ -inch diameter borehole

Sch 40 PVC riser pipe material

2 -inch diameter riser pipe

8.3 -ft. long riser pipe

Type 1A Portland type grout

-lb. bags x bags = lbs.

+ type of water

Depth to top of seal: 1.5 ft. bgs

Pure Gold Bentonite Med Chip type seal

-lb. bags or buckets x bags or buckets

= lbs. + type of water

Depth to top of sandpack: 2.5 ft. bgs

Depth to top of screen: 5 ft. bgs

Sch 40 PVC screen material

2 -inch diameter screen

0.010 -inch screen slot size

10 -ft. long screen

Type 1 Filter Sand 20/30 Wash type sandpack

-lb. bags x bags = lbs.

placement

Depth to bottom of screen: 15 ft. bgs

0.25 -ft. long sump

Depth to bottom of sump: 15.25 ft. bgs

0.25 -ft. long well plug/point

Depth to bottom of well plug/point: 15.5 ft. bgs

Depth to bottom of borehole: 15.5 ft. bgs

NOT TO SCALE

MONITOR WELL LOG - STICKUP

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	1545	1710
Date	9/4/08	9/4/08

Well ID	FMW-6
Project No. 8096	
Oversight: Joe King/L. Diprima	
Driller: Atlas GEO Sampling	

5 -ft. long protective casing with lock

Top cap

Height of top of riser pipe: 3.05 ft. ags

Ground surface

2 -ft. x 2 -ft. x 2 -ft. concrete pad

and -inch diam. or square protective casing

7¼ -inch diameter borehole

Sch 40 PVC riser pipe material

2 -inch diameter riser pipe

8.55 -ft. long riser pipe

Type 1A Portland type grout

-lb. bags x bags = lbs.

+ type of water

Depth to top of seal: 1 ft. bgs

Pure Gold Bentonite Med Chip type seal

-lb. bags or buckets x bags or buckets

= lbs. + type of water

Depth to top of sandpack: 3 ft. bgs

Depth to top of screen: 5.5 ft. bgs

Sch 40 PVC screen material

2 -inch diameter screen

0.010 -inch screen slot size

10 -ft. long screen

Type 1 Filter Sand 20/30 Wash type sandpack

-lb. bags x bags = lbs.

placement

Depth to bottom of screen: 15.5 ft. bgs

0.25 -ft. long sump

Depth to bottom of sump: 15.75 ft. bgs

0.25 -ft. long well plug/point

Depth to bottom of well plug/point: 16 ft. bgs

Depth to bottom of borehole: 16 ft. bgs

NOT TO SCALE

MONITOR WELL LOG - FLUSH MOUNT

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	0845	0940
Date	11/25/08	11/25/08

Well ID	FMW-7
Project No.	08096
Geol./Eng.	Joe King/L. Diprima
Driller	Atlas Geo Sampling

Top cap and lock

Ground surface

Concrete pad and 8 **-inch diameter, flush-mounted manhole**

Drainage gravel

71/4 -inch diameter borehole

Sch 40 PVC **riser pipe material**

2 **-inch diameter riser pipe**

10 **-ft. long riser pipe**

Type Grout

Type 1 A Portland

Type Seal

Pure Gold Bentonite Med Chip

Sch 40 PVC Screen Material

2 **-inch diameter screen**

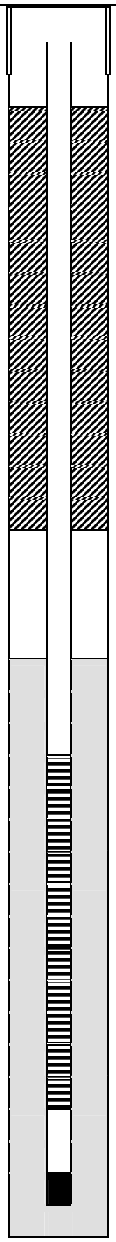
0.010 **-inch screen slot size**

10 **-ft. long screen**

Type Sandpack

Type 1 Filter Sand 20/30 Wash

.5 **-ft. long well plug/point**



Depth to top of riser pipe: 0 **ft. bgs**

Depth to top of grout seal: .5 **ft. bgs**

Depth to top of seal: 1,5 **ft. bgs**

Depth to top of sandpack: 6 **ft. bgs**

Depth to top of screen: 8 **ft. bgs**

Depth to bottom of screen: 17.5 **ft. bgs**

Depth to bottom of well plug/point: 18 **ft. bgs**

Depth to bottom of borehole: 18 **ft. bgs**

MONITOR WELL LOG - FLUSH MOUNT

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	1020	1120
Date	11/25/08	11/25/08

Well ID	FMW-8
Project No.	08096
Geol./Eng.	Joe King/L. Dprima
Driller	Atlas Geo Sampling

Top cap and lock

Ground surface

Concrete pad and 8 **-inch diameter, flush-mounted manhole**

Drainage gravel

71/4 -inch diameter borehole

Sch 40 PVC **riser pipe material**

2 **-inch diameter riser pipe**

10 **-ft. long riser pipe**

Type Grout

Type 1 A Portland

Type Seal

Pure Gold Bentonite Med Chip

Sch 40 PVC Screen Material

2 **-inch diameter screen**

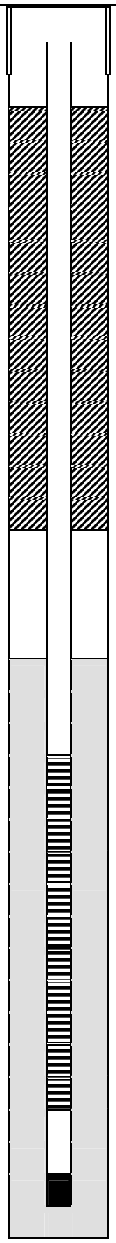
0.010 **-inch screen slot size**

10 **-ft. long screen**

Type Sandpack

Type 1 Filter Sand 20/30 Wash

.5 **-ft. long well plug/point**



Depth to top of riser pipe: 0 **ft. bgs**

Depth to top of grout seal: 1 **ft. bgs**

Depth to top of seal: 2 **ft. bgs**

Depth to top of sandpack: 8 **ft. bgs**

Depth to top of screen: 10 **ft. bgs**

Depth to bottom of screen: 19.5 **ft. bgs**

Depth to bottom of well plug/point: 20 **ft. bgs**

Depth to bottom of borehole: 20 **ft. bgs**

MONITOR WELL LOG - STICKUP

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	1400	1445
Date	11/25/08	11/25/08

Well ID	FMW-9
Project No. 8096	
Oversight: Joe King/L. Diprima	
Driller: Atlas GEO Sampling	

5 -ft. long protective casing with lock

Top cap

Height of top of riser pipe: 3.7 ft. ags

Ground surface

2 -ft. x 2 -ft. x 2 -ft. concrete pad

and -inch diam. or square protective casing

7¼ -inch diameter borehole

Sch 40 PVC riser pipe material

2 -inch diameter riser pipe

9.7 -ft. long riser pipe

Type 1A Portland type grout

-lb. bags x bags = lbs.

+ type of water

Depth to top of seal: 1 ft. bgs

Pure Gold Bentonite Med Chip type seal

-lb. bags or buckets x bags or buckets

= lbs. + type of water

Depth to top of sandpack: 3 ft. bgs

Depth to top of screen: 6 ft. bgs

Sch 40 PVC screen material

2 -inch diameter screen

0.010 -inch screen slot size

10 -ft. long screen

Type 1 Filter Sand 20/30 Wash type sandpack

-lb. bags x bags = lbs.

placement

Depth to bottom of screen: 16 ft. bgs

0.25 -ft. long sump

Depth to bottom of sump: 16.25 ft. bgs

0.25 -ft. long well plug/point

Depth to bottom of well plug/point: 16.5 ft. bgs

Depth to bottom of borehole: 16.5 ft. bgs

NOT TO SCALE

MONITOR WELL LOG - STICKUP

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	1400	1445
Date	11/25/08	11/25/08

Well ID	FMW-10
Project No. 8096	
Oversight: Joe King/L. Diprima	
Driller: Atlas GEO Sampling	

5 -ft. long protective casing with lock

Top cap

Height of top of riser pipe: 3.7 ft. ags

Ground surface

2 -ft. x 2 -ft. x 2 -ft. concrete pad

and -inch diam. or square protective casing

7¼ -inch diameter borehole

Sch 40 PVC riser pipe material

2 -inch diameter riser pipe

9.7 -ft. long riser pipe

Type 1A Portland type grout

-lb. bags x bags = lbs.

+ type of water

Depth to top of seal: 1 ft. bgs

Pure Gold Bentonite Med Chip type seal

-lb. bags or buckets x bags or buckets

= lbs. + type of water

Depth to top of sandpack: 3 ft. bgs

Depth to top of screen: 6 ft. bgs

Sch 40 PVC screen material

2 -inch diameter screen

0.010 -inch screen slot size

10 -ft. long screen

Type 1 Filter Sand 20/30 Wash type sandpack

-lb. bags x bags = lbs.

placement

Depth to bottom of screen: 16 ft. bgs

Depth to bottom of sump: 16.25 ft. bgs

0.25 -ft. long sump

Depth to bottom of well plug/point: 16.5 ft. bgs

0.25 -ft. long well plug/point

Depth to bottom of borehole: 16.5 ft. bgs

NOT TO SCALE

MONITOR WELL LOG - STICKUP

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	1500	1600
Date	11/25/08	11/25/08

Well ID	FMW-11
Project No. 8096	
Oversight: Joe King/L. Diprima	
Driller: Atlas GEO Sampling	

5 -ft. long protective casing with lock

Top cap

Height of top of riser pipe: 1.69 ft. ags

Ground surface

2 -ft. x 2 -ft. x 2 -ft. concrete pad

and -inch diam. or square protective casing

7¼ -inch diameter borehole

Sch 40 PVC riser pipe material

2 -inch diameter riser pipe

7.69 -ft. long riser pipe

Type 1A Portland type grout

-lb. bags x bags = lbs.

+ type of water

Depth to top of seal: 1 ft. bgs

Pure Gold Bentonite Med Chip type seal

-lb. bags or buckets x bags or buckets

= lbs. + type of water

Depth to top of sandpack: 2 ft. bgs

Depth to top of screen: 6 ft. bgs

Sch 40 PVC screen material

2 -inch diameter screen

0.010 -inch screen slot size

10 -ft. long screen

Type 1 Filter Sand 20/30 Wash type sandpack

-lb. bags x bags = lbs.

placement

Depth to bottom of screen: 16 ft. bgs

Depth to bottom of sump: 16.25 ft. bgs

0.25 -ft. long sump

Depth to bottom of well plug/point: 16.5 ft. bgs

0.25 -ft. long well plug/point

Depth to bottom of borehole: 16.5 ft. bgs

NOT TO SCALE

MONITORING WELL

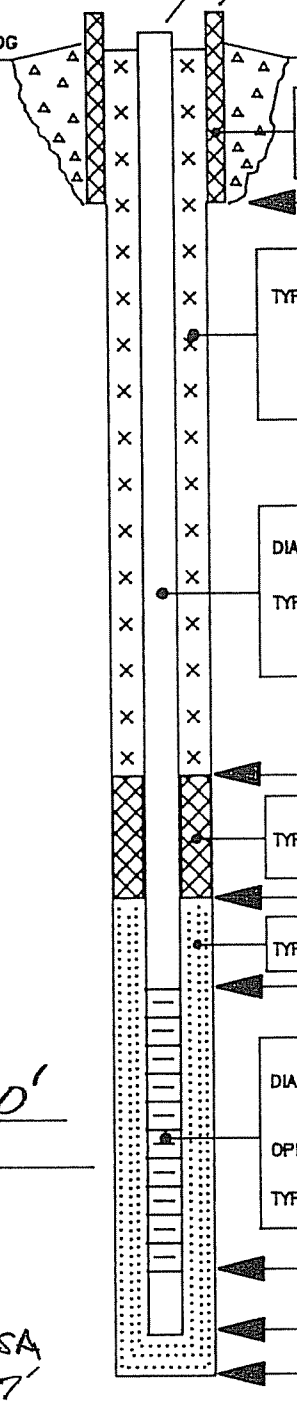
PROJECT	Fashion Care
WELL NO.	FMW-12
SITE	08096
LOCATION	2211 Savoy Dr. Chamblee, GA
BEGUN	3-17-10
COMPLETED	3-17-10
CONSTRUCTED BY	Atlas

ELEV.–TOP OF RISER CASING: Stick-up

ELEV.–TOP OF SURFACE CASING: _____

GENERALIZED GEOLOGIC LOG

See Geologic Log



	DEPTH	ELEV.
GROUND SURFACE		
BOTTOM OF SURFACE CASING		
TOP OF SEAL	2.0	
BOTTOM OF SEAL	4.5	
TOP OF SCREEN	5.5	
BOTTOM OF SCREEN	15.5	
BOTTOM OF SUMP	16.0	
BOTTOM OF HOLE	16.0	

SURFACE CASING
DIA.: 4" Square
TYPE: Stick-up/Aluminum

SURFACE PLUG
TYPE: Bentonite-Portland

RISER CASING
DIA.: 2" ID
TYPE: PVC

ANNULAR SEAL
TYPE: PureGold Bentonite Med. Chips

FILTER PACK
TYPE: Silica Sand

SCREEN
DIA.: 2" ID TYPE: PVC-Slot
OPENING WIDTH: 0.010"
TYPE:

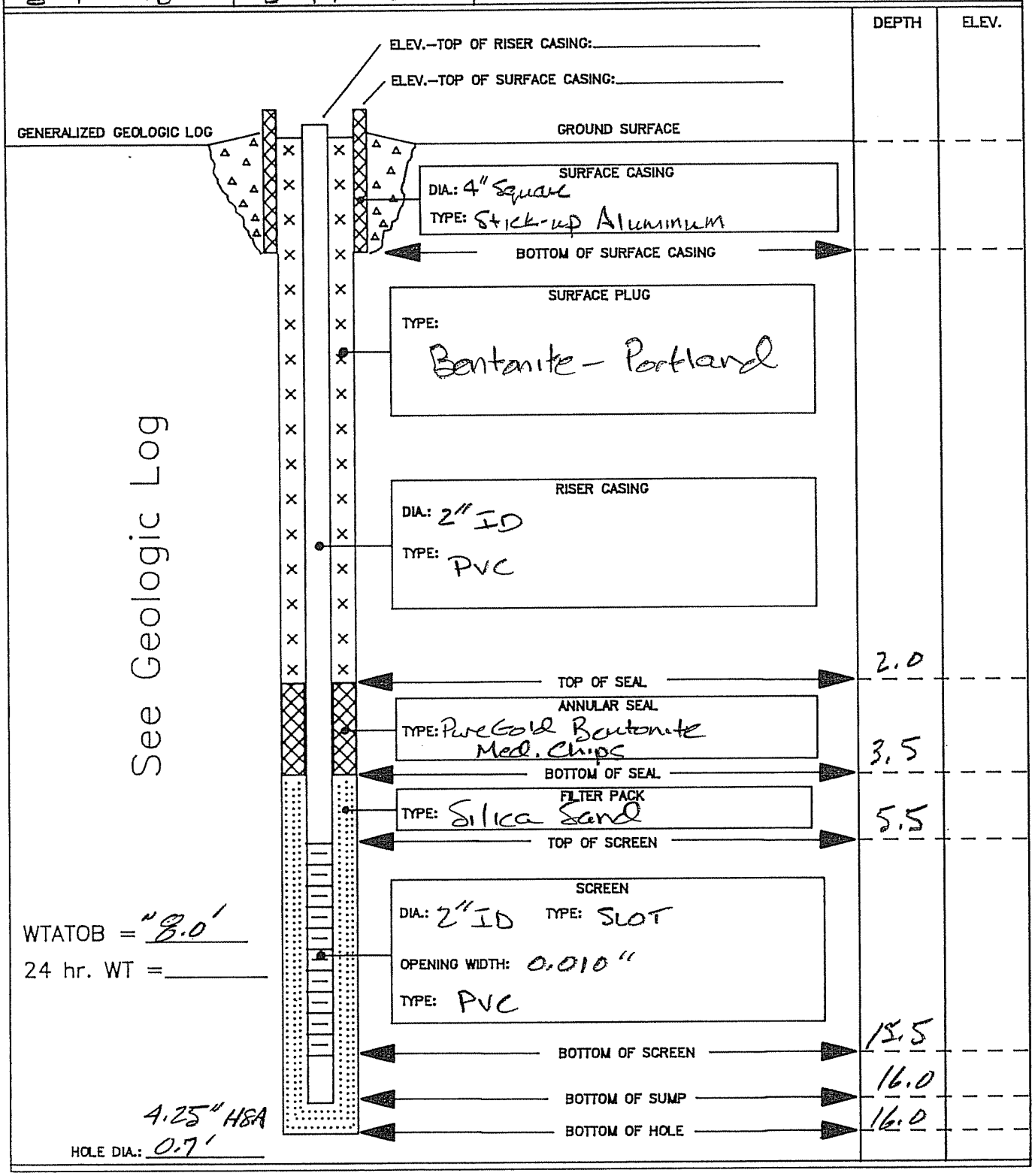
WTATOB = 9.0'

24 hr. WT = _____

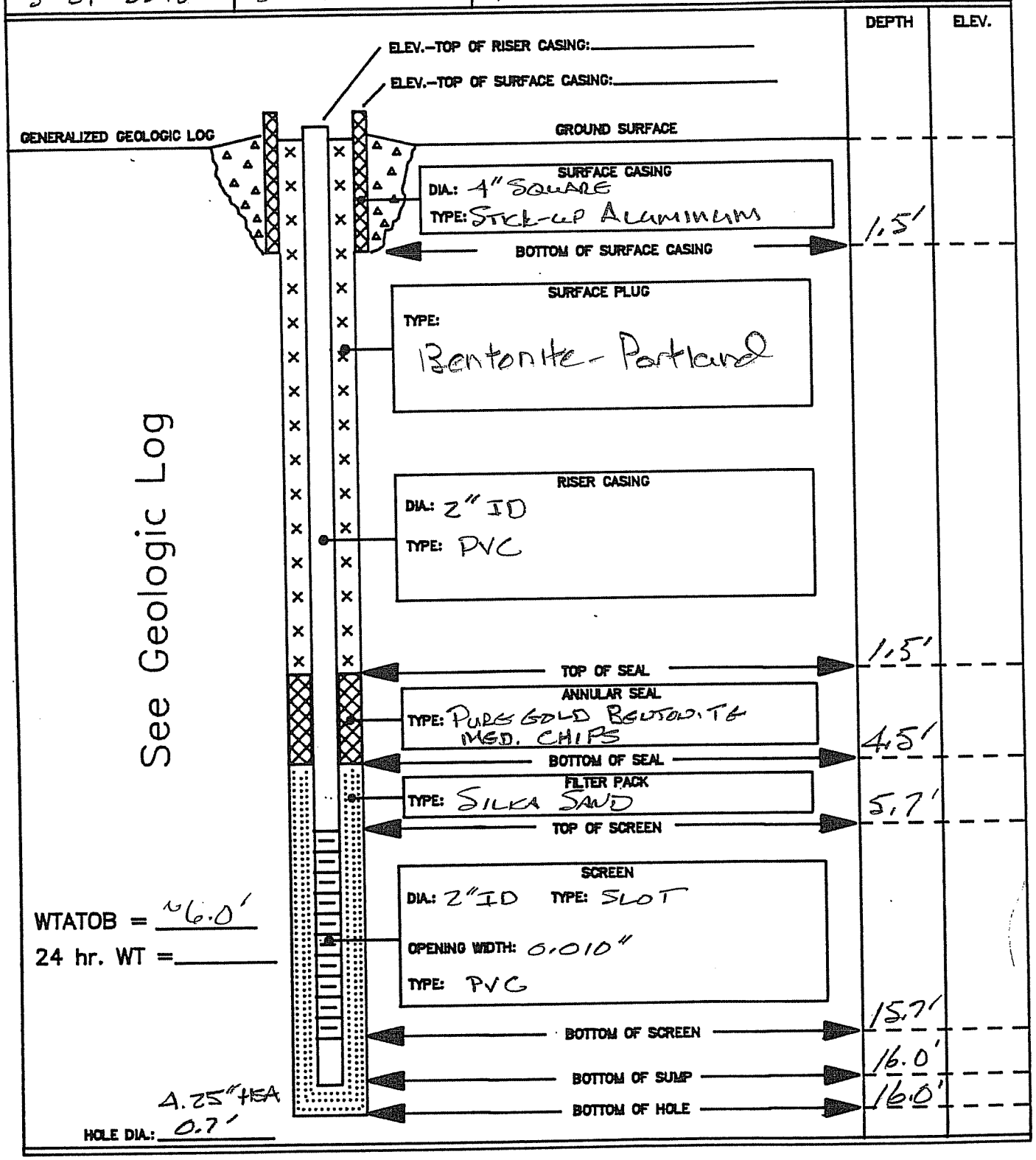
4.25" HSA

HOLE DIA.: 0.7'

MONITORING WELL	PROJECT Fashion Cars	WELL NO. FMW-13
SITE 08096	LOCATION 2211 Savoy Dr, Chamblee, GA	
BEGUN 3-17-10	COMPLETED 3-17-10	CONSTRUCTED BY ATLAS



MONITORING WELL	PROJECT Fashion Cars	WELL NO. FMW-14
SITE 08096	LOCATION 2211 Savoy Dr., Chamblee, GA	
BEGUN 5-27-2010	COMPLETED 5-27-2010	CONSTRUCTED BY ATLAS



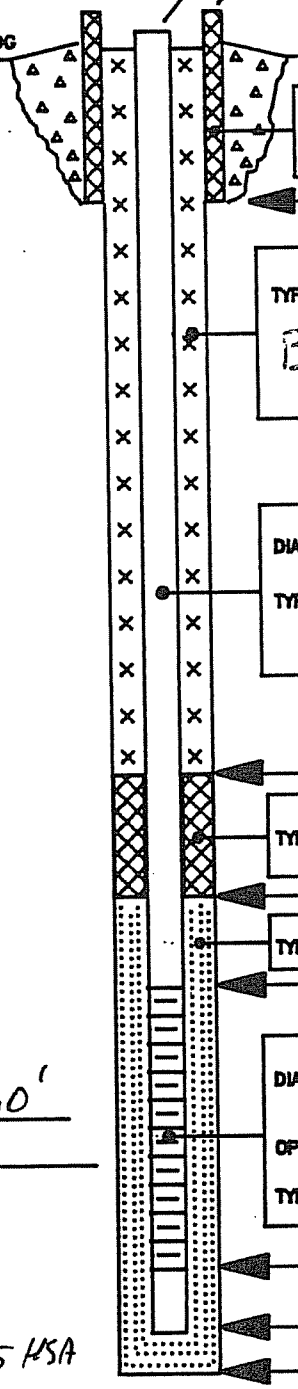
MONITORING WELL	PROJECT Fashion Care	WELL NO. FMW-15
SITE 08096	LOCATION 2211 Savoy Dr, Chamblee, GA	
BEGUN 6-15-10	COMPLETED 6-15-10	CONSTRUCTED BY Atlas

ELEV.–TOP OF RISER CASING: _____

ELEV.–TOP OF SURFACE CASING: _____

GENERALIZED GEOLOGIC LOG

See Geologic Log



	DEPTH	ELEV.
GROUND SURFACE		
SURFACE CASING — DIA.: 4" Square; TYPE: Stickup Aluminum		
BOTTOM OF SURFACE CASING		
SURFACE PLUG — TYPE: Bentonite Portland		
RISER CASING — DIA.: 2" ID; TYPE: PVC		
TOP OF SEAL	2.0	
ANNULAR SEAL — TYPE: Bentonite Chips - Medium		
BOTTOM OF SEAL	3.5	
FILTER PACK — TYPE: Silica Sand		
TOP OF SCREEN	4.5	
SCREEN — DIA.: 2" ID; TYPE: Slot; OPENING WIDTH: 0.016"; TYPE: PVC		
BOTTOM OF SCREEN	9.5	
BOTTOM OF SUMP	10.0	
BOTTOM OF HOLE		

WTATOB = ~5.0'

24 hr. WT = _____

4.25 HSA

HOLE DIA.: _____

MONITORING WELL

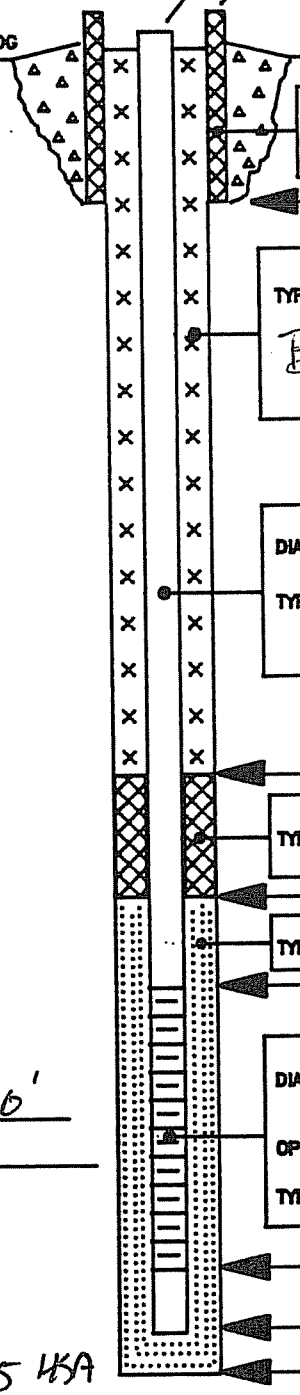
PROJECT: Fashion Care		WELL NO.: FMW-16
SITE: 08096	LOCATION: 2211 Savoy Dr, Chamblee, GA	
BEGUN: 6-15-10	COMPLETED: 6-15-10	CONSTRUCTED BY: Atlas

ELEV.–TOP OF RISER CASING: _____

ELEV.–TOP OF SURFACE CASING: _____

GENERALIZED GEOLOGIC LOG

See Geologic Log



	DEPTH	ELEV.
GROUND SURFACE		
SURFACE CASING — DIA.: 4" Square; TYPE: Stick-up Aluminum		
BOTTOM OF SURFACE CASING		
SURFACE PLUG — TYPE: Bentonite-Portland		
RISER CASING — DIA.: 2" ID; TYPE: PVC		
TOP OF SEAL	2.5	
ANNULAR SEAL — TYPE: Bentonite Chips - Med		
BOTTOM OF SEAL	4.5	
FILTER PACK — TYPE: Silica Sand		
TOP OF SCREEN	6.5	
SCREEN — DIA.: 2" ID; TYPE: Slot; OPENING WIDTH: 0.010"; TYPE: PVC		
BOTTOM OF SCREEN	11.5	
BOTTOM OF SUMP	12.0	
BOTTOM OF HOLE		

WTATOB = ~6.0'

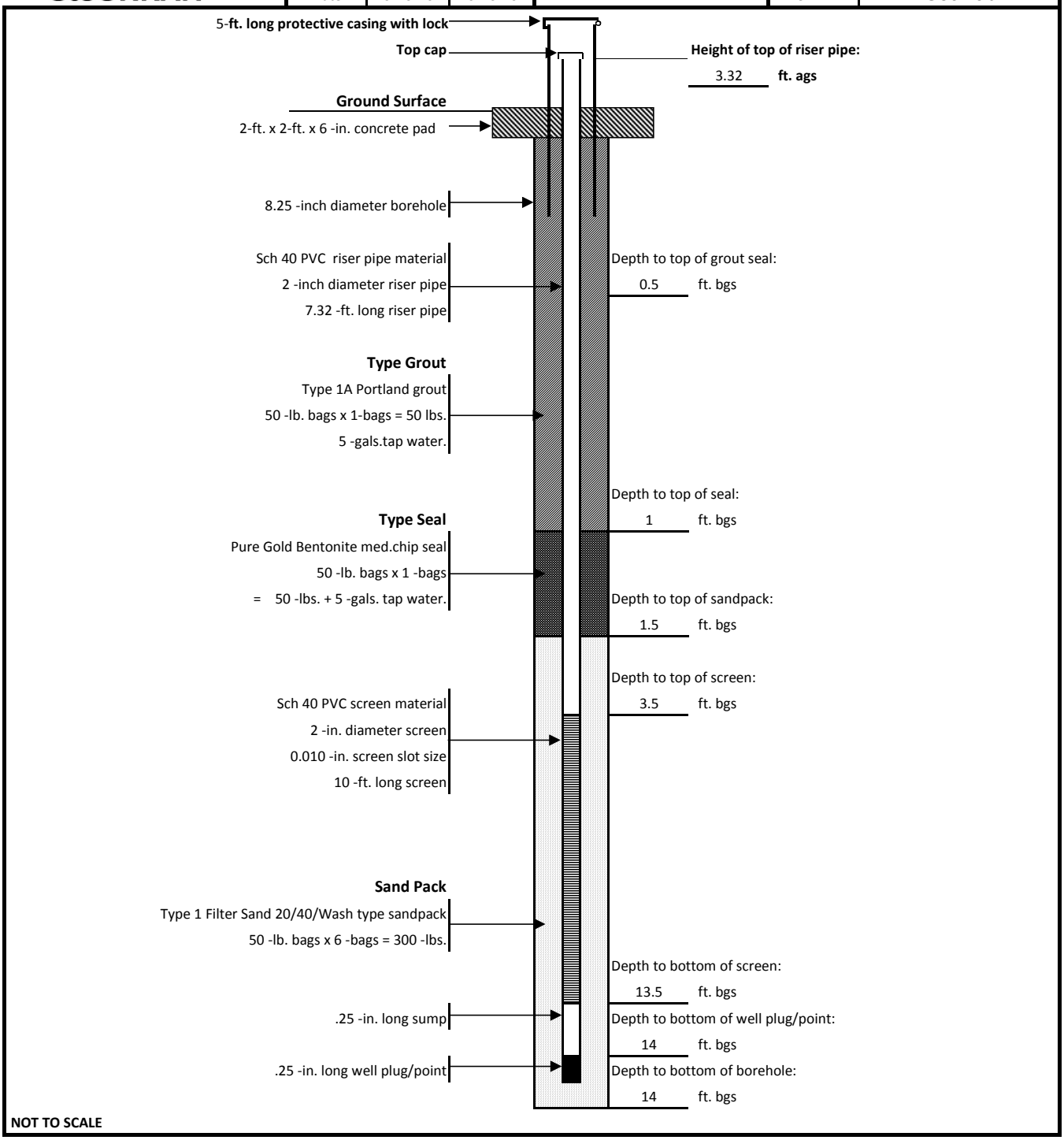
24 hr. WT = _____

HOLE DIA.: 4.25 HSA

MONITOR WELL LOG - STICKUP

	Constr. Start	Constr. Finish
Time	9:00	11:30
Date	3/28/13	3/28/13

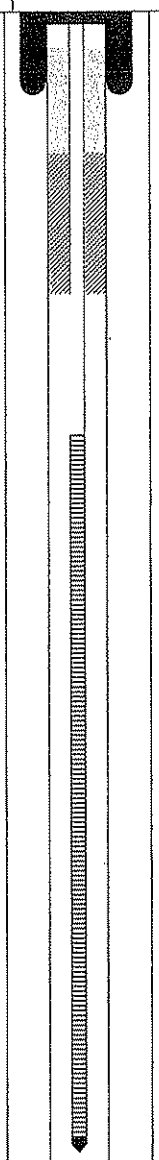
Well ID:	FMW-17
Project No:	226203.00
Geol./Eng:	LJD/JDK
Driller:	Geo Lab



NOT TO SCALE

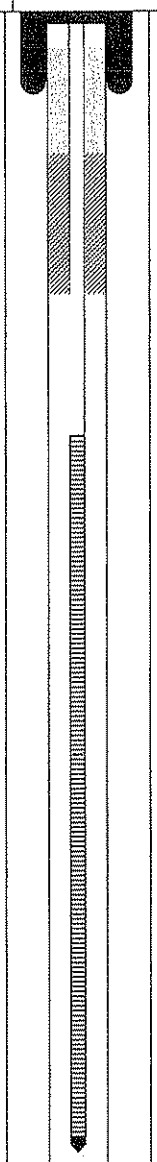
PROJECT: **Fashion Care Cleaners**	**Log of Boring No. B-24**		
PROJECT LOCATION: Atlanta, Georgia	GROUND SURFACE ELEVATION AND DATUM: NA		
DRILLING CONTRACTOR: Atlas Geo-Sampling	DATE STARTED: 4/17/07	DATE FINISHED: 4/17/07	
DRILLING METHOD: Direct Push	TOTAL DEPTH (ft.): 16.5	SCREEN INTERVAL (ft.): 6-16	
DRILLING EQUIPMENT: AMS truck mounted probe	DEPTH TO WATER: FIRST: 11	COMPL. NA	CASING: 0-6
SAMPLING METHOD: Macrocore	LOGGED BY: E. Macking		

DEPTH (feet)	SAMPLES: Sample No.	Sample	Blows/ Foot	PID Reading	DESCRIPTION (Top of Casing Elevation: NA)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0					concrete/gravel	
1						
2	B-24-2			1.4	Brown sandy silt-soft	
3						
4						
5	B-24-5			12.7	Dark brown clayey silt-stiff-saprolite	
6						
7						
8						
9					Dark brown clayey silt-stiff-saprolite	
10	B-24-10			21.3		
11					brown grey clayey silt-soft-mottled (wet at 11')	
12						
13						
14					Brown grey slightly sandy silt-wet	
15						
16						Terminate boring at 16.5 ft-bls
17						



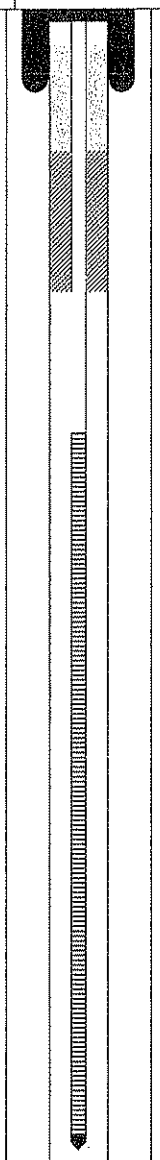
PROJECT: **Fashion Care Cleaners**	**Log of Boring No. B-25**		
PROJECT LOCATION: Atlanta, Georgia	GROUND SURFACE ELEVATION AND DATUM: NA		
DRILLING CONTRACTOR: Atlas Geo-Sampling	DATE STARTED: 4/17/07	DATE FINISHED: 4/17/07	
DRILLING METHOD: Direct Push	TOTAL DEPTH (ft.): 16.5	SCREEN INTERVAL (ft.): 6-16	
DRILLING EQUIPMENT: AMS truck mounted probe	DEPTH TO WATER: FIRST: 10.5	COMPL. NA	CASING: 0-6
SAMPLING METHOD: Macrocore	LOGGED BY: E. Macking		

DEPTH (feet)	SAMPLES: Sample-No.	Sample	Blows/Foot	PID Reading	DESCRIPTION (Top of Casing Elevation: NA)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0					concrete/gravel	
1	B-25-2				light brown sandy silt-soft	
2				1.4		
3					Dark brown sandy silt-firm	
4	B-25-5					
5				12.7		
6					Brown coarse sandy silt-firm to stiff	
7						
8						
9	B-25-10					
10				21.3		
11					Fine sandy clayey silt-soft-wet	
12						
13					Light brown grey slightly sandy clayey silt-mottled-wet	
14						
15						
16						Terminate boring at 16.5 ft-bls
17						

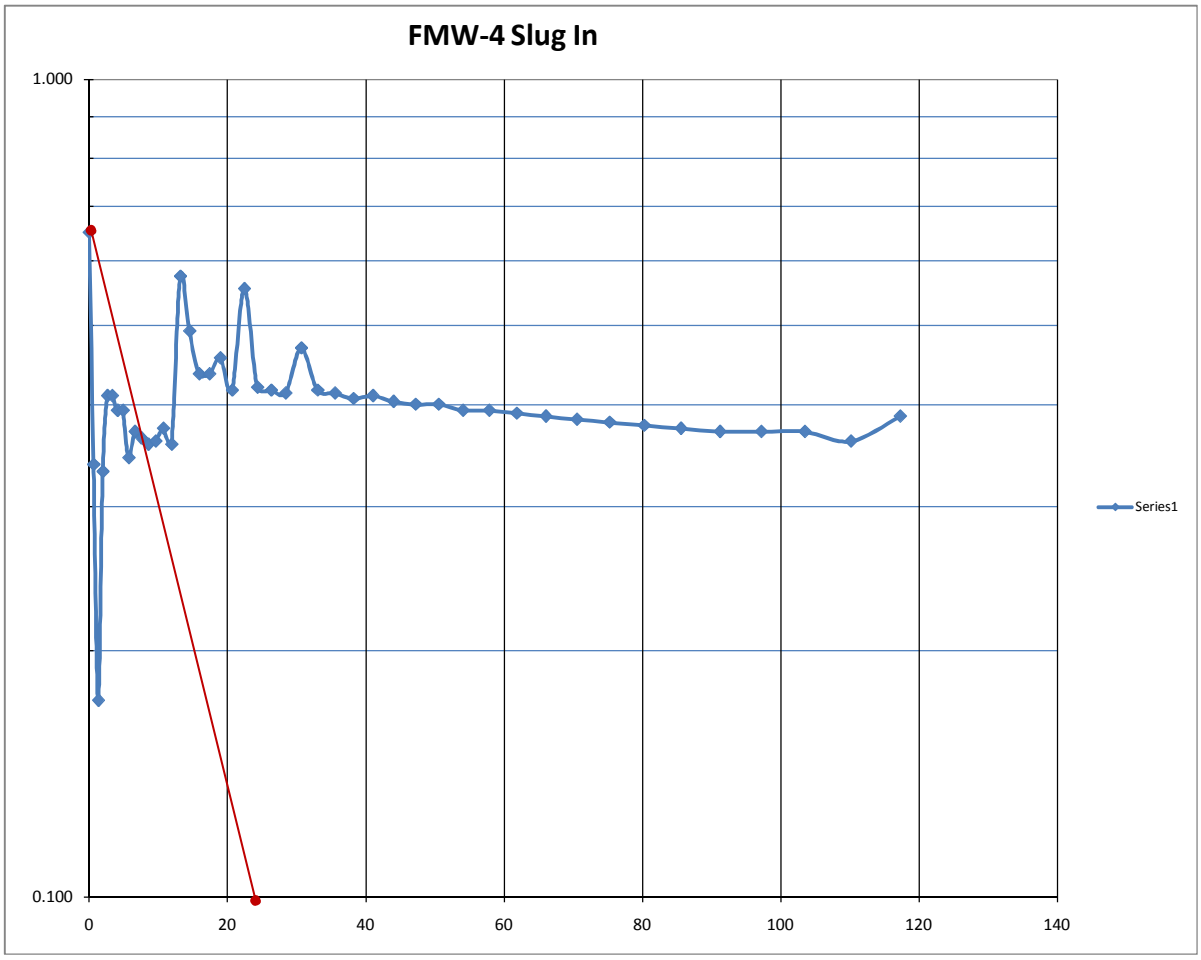


PROJECT: **Fashion Care Cleaners**	**Log of Boring No. B-26**		
PROJECT LOCATION: Atlanta, Georgia	GROUND SURFACE ELEVATION AND DATUM: NA		
DRILLING CONTRACTOR: Atlas Geo-Sampling	DATE STARTED: 4/17/07	DATE FINISHED: 4/17/07	
DRILLING METHOD: Direct Push	TOTAL DEPTH (ft.): 16.5	SCREEN INTERVAL (ft.): 6-16	
DRILLING EQUIPMENT: AMS truck mounted probe	DEPTH TO WATER: FIRST: 11 / COMPL. NA	CASING: 0-6	
SAMPLING METHOD: Macrocore	LOGGED BY: E. Macking		

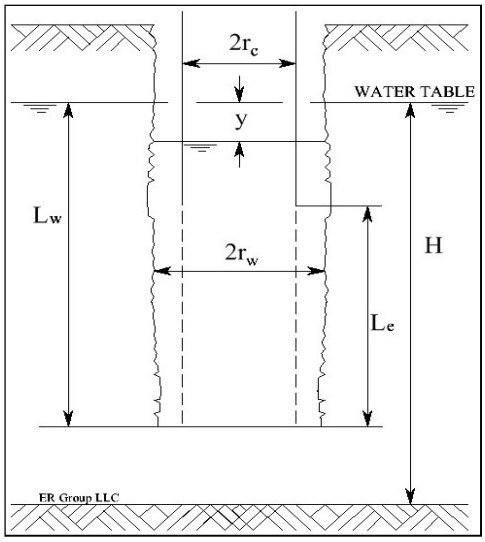
DEPTH (feet)	SAMPLES: Sample No.	Sample	Blows/ Foot	PID Reading	DESCRIPTION (Top of Casing Elevation: NA)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0					concrete/gravel	
1						
2	B-26-2			1.8		
3					Red slightly sandy silt-soft	
4						
5	B-26-5			6.4		
6						
7						
8					Light brown coarse sandy silt-saprolite	
9						
10	B-26-10			6.32		
11					Grey brown clayey silt-mottled-moist	
12						
13						
14					Grey brown clayey silt-mottled-wet	
15						
16						Terminate boring at 16.5 ft-bls
17						



APPENDIX D – SLUG TEST DATA

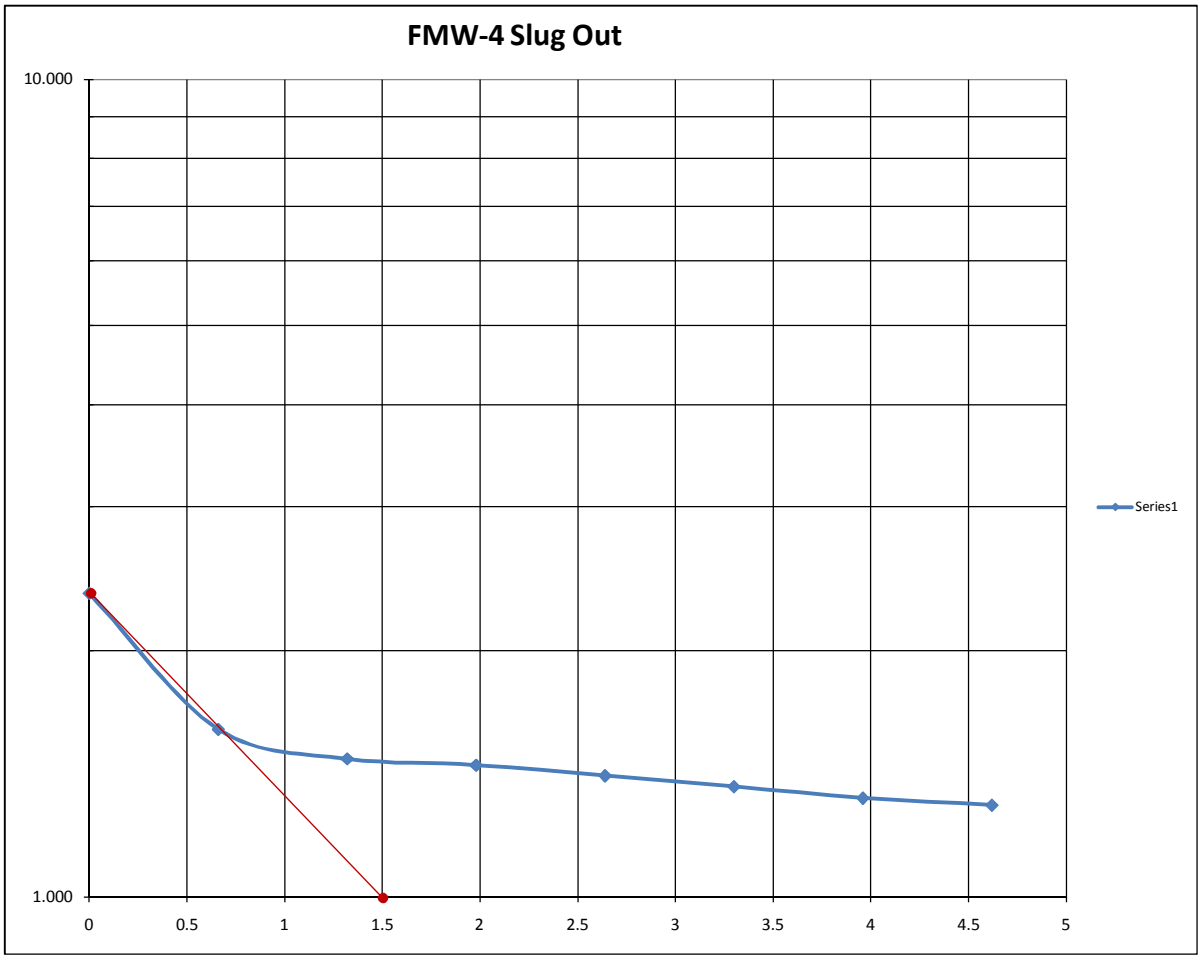


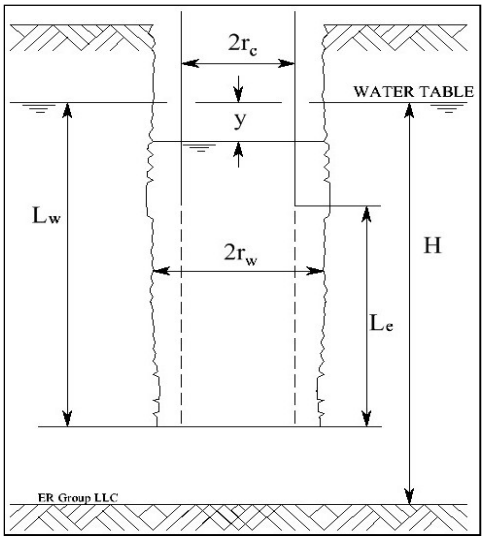
Physical Parameters:		TEST 3	
Well Casing Radius	(rc)	0.08333	Ft
Boring Radius	(rw)	0.33333	Ft
Water In Well	(Le)	6.63	Ft
Aquifer Thickness	(H)	40	Ft
Wet Well Depth	(Lw)	6.63	Ft
Porosity	(n)	0.2	



Parameter Calculations for Bouwer and Rice Slug Test (Ground Water, 1989)

Re (effective radius) = ((1-n)*rc^2 +n*rw^2)^.5 =		0.16667
Log (Le/rw) =		1.29863
Interpolated "A" from Table:	A =	2.23049
Interpolated "B" from Table:	B =	0.32482
Interpolated "C" from Table:	C =	1.50004
Ln(Re/rw) where Lw < H		1.80105
Ln(Re/rw) where Lw = H		2.2559
Yo =		0.7
Yt =		0.1
t =		10
K (ft/sec) where Lw < H	0.00018 ft/sec	15.86 ft/day
K (ft/sec) where Lw = H	0.00023 ft/sec	19.86 ft/day





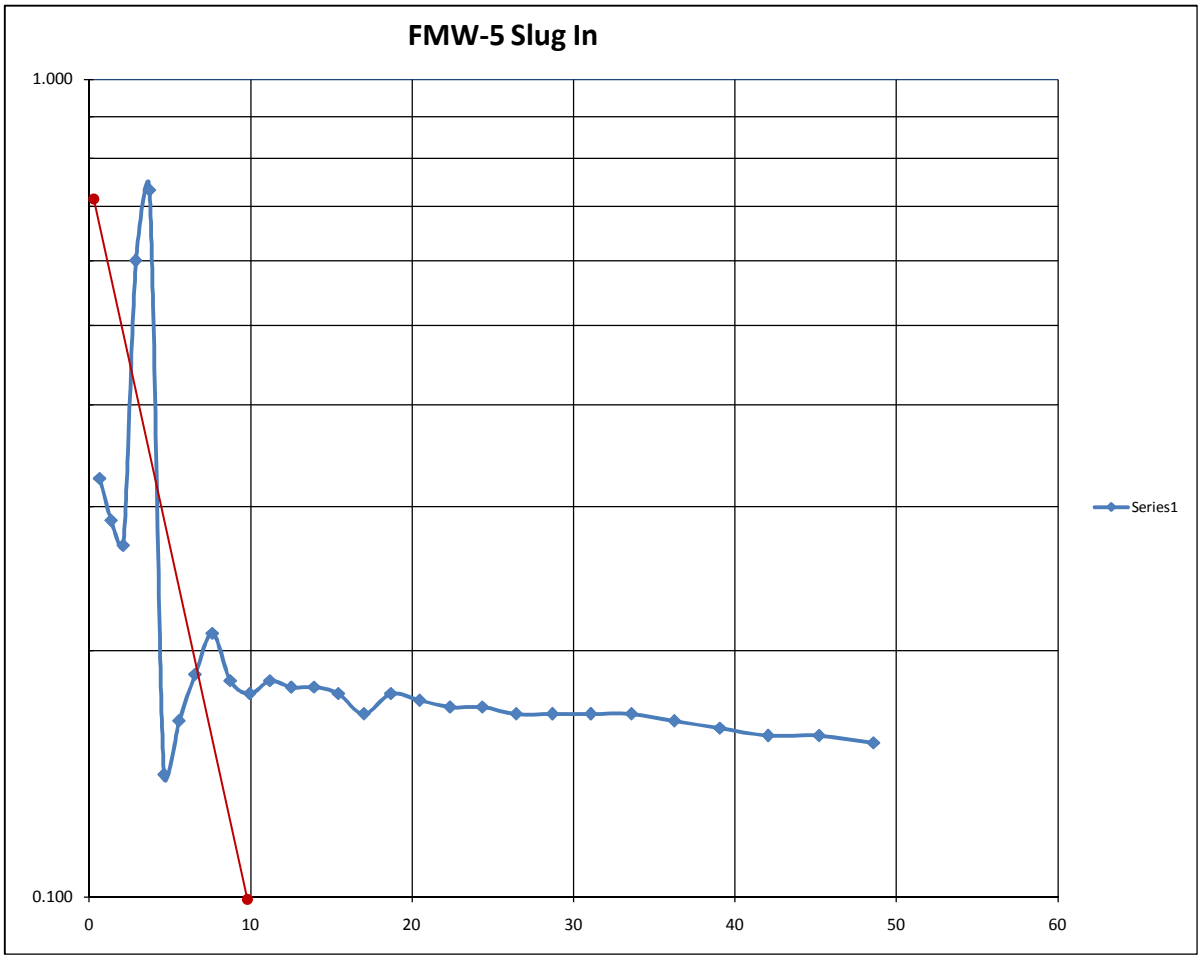
Physical Parameters:		TEST 4	
Well Casing Radius	(rc)	0.08333	Ft
Boring Radius	(rw)	0.33333	Ft
Water In Well	(Le)	6.63	Ft
Aquifer Thickness	(H)	40	Ft
Wet Well Depth	(Lw)	6.63	Ft
Porosity	(n)	0.2	

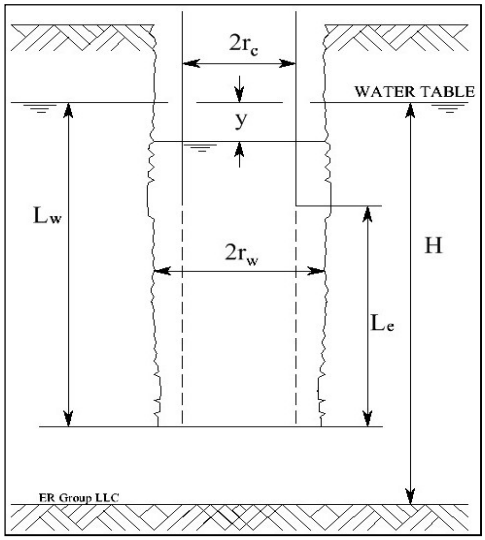
Parameter Calculations for Bouwer and Rice Slug Test (Ground Water, 1989)

Re (effective radius) = ((1-n)*rc^2 +n*rw^2)^.5 = 0.16667

Log (Le/rw) =		1.29863
Interpolated "A" from Table:	A =	2.23049
Interpolated "B" from Table:	B =	0.32482
Interpolated "C" from Table:	C =	1.50004
Ln(Re/rw) where Lw < H		1.80105
Ln(Re/rw) where Lw = H		2.2559
Yo =		1.2
Yt =		1
t =		1.5

K (ft/sec) where Lw < H	0.00011 ft/sec	9.91 ft/day
K (ft/sec) where Lw = H	0.00014 ft/sec	12.41 ft/day





Physical Parameters: TEST 1

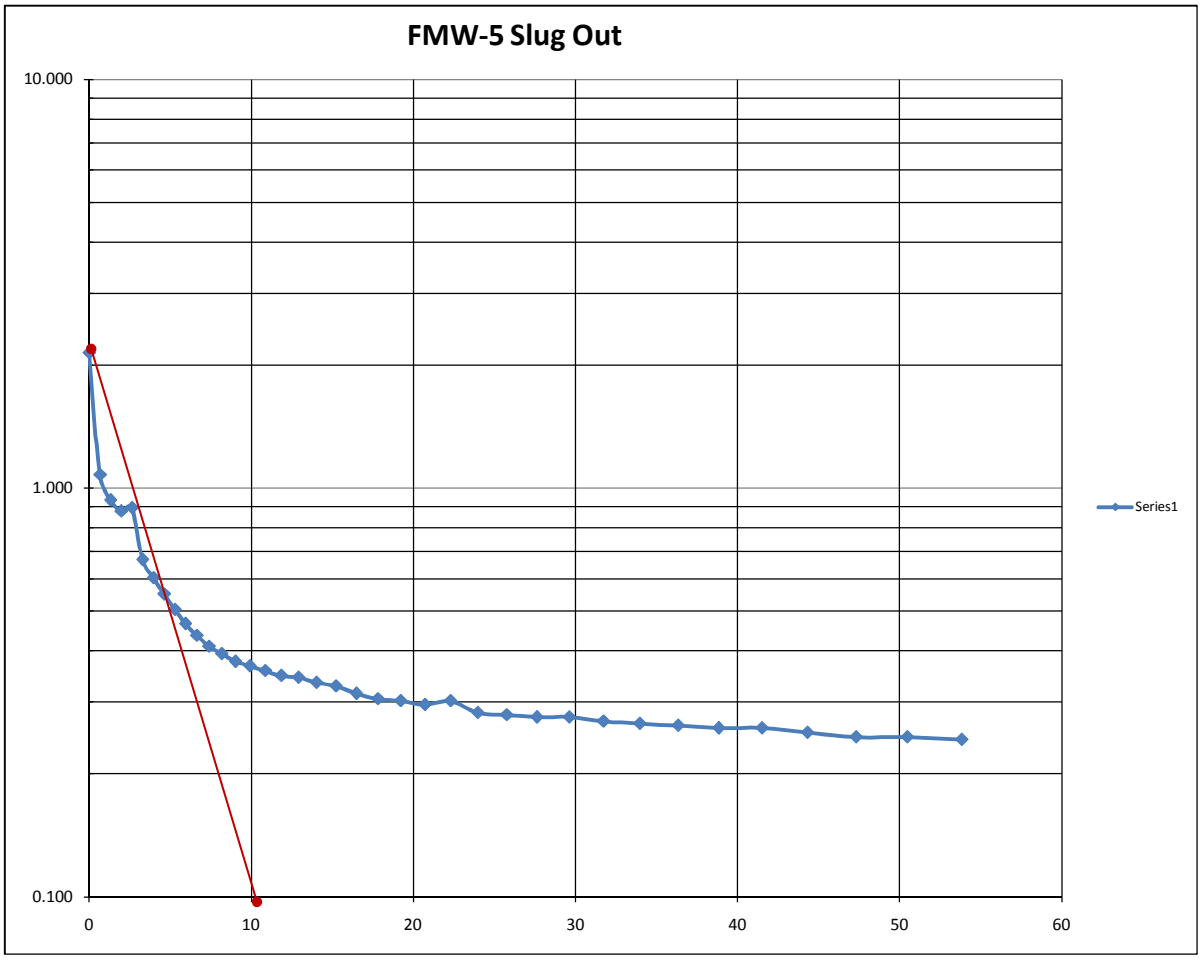
Well Casing Radius	(rc)	0.08333	Ft
Boring Radius	(rw)	0.33333	Ft
Water In Well	(Le)	5.83	Ft
Aquifer Thickness	(H)	40	Ft
Wet Well Depth	(Lw)	5.83	Ft
Porosity	(n)	0.2	

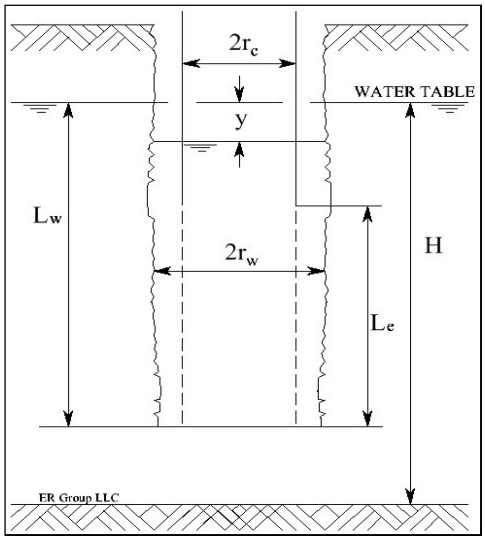
Parameter Calculations for Bouwer and Rice Slug Test (Ground Water, 1989)

Re (effective radius) = ((1-n)*rc^2 +n*rw^2)^.5 = 0.16667

Log (Le/rw) =		1.24279
Interpolated "A" from Table:	A =	2.14962
Interpolated "B" from Table:	B =	0.3124
Interpolated "C" from Table:	C =	1.41985
Ln(Re/rw) where Lw < H		1.69491
Ln(Re/rw) where Lw = H		2.14787
Yo =		0.7
Yt =		0.1
t =		10

K (ft/sec) where Lw < H	0.0002	ft/sec	16.97	ft/day
K (ft/sec) where Lw = H	0.00025	ft/sec	21.51	ft/day





Physical Parameters:		TEST 2	
Well Casing Radius	(rc)	0.08333	Ft
Boring Radius	(rw)	0.33333	Ft
Water In Well	(Le)	5.83	Ft
Aquifer Thickness	(H)	40	Ft
Wet Well Depth	(Lw)	5.83	Ft
Porosity	(n)	0.2	

Parameter Calculations for Bouwer and Rice Slug Test (Ground Water, 1989)

Re (effective radius) = ((1-n)*rc^2 +n*rw^2)^.5 = 0.16667

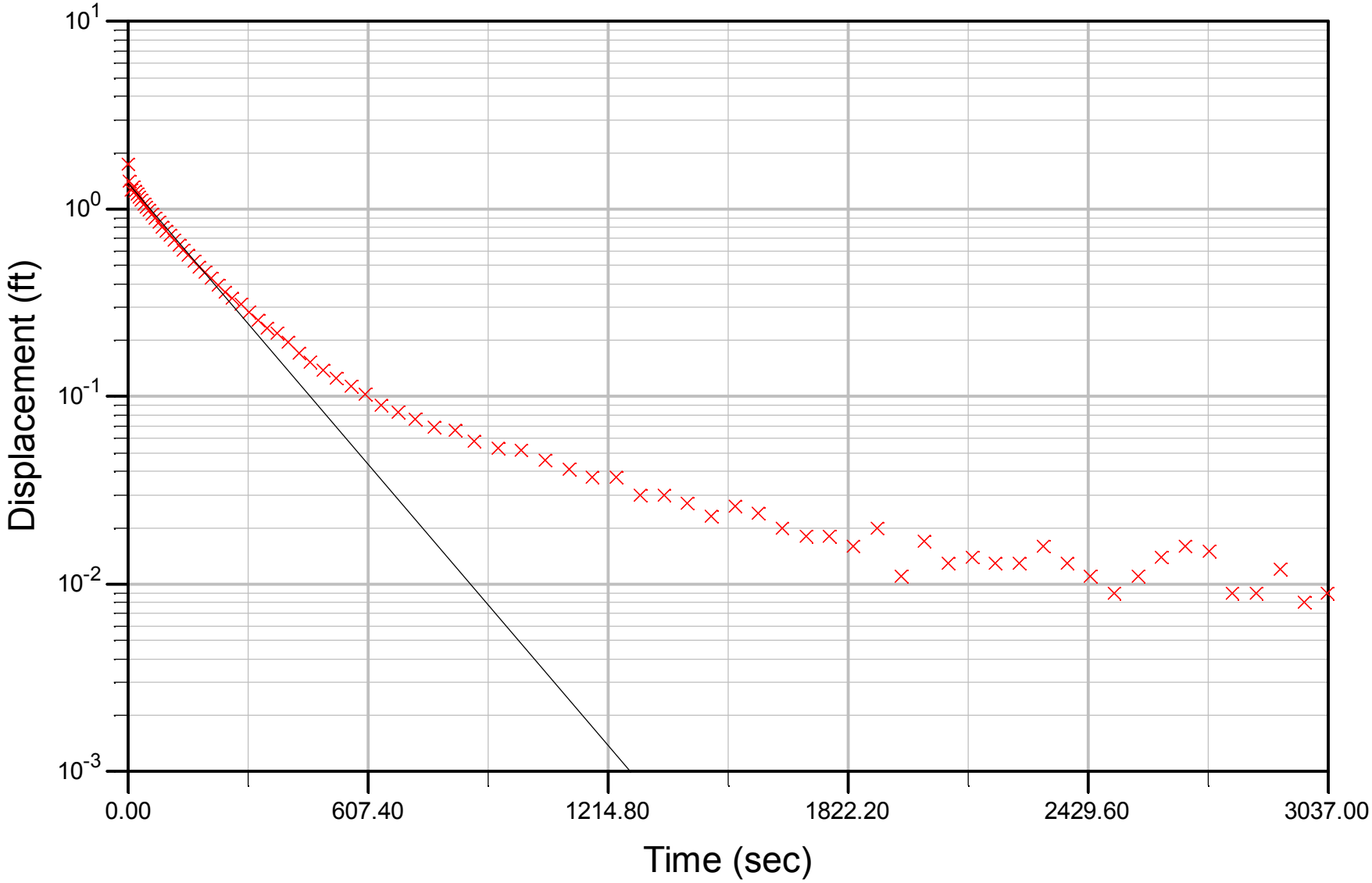
Log (Le/rw) =		1.24279
Interpolated "A" from Table:	A =	2.14962
Interpolated "B" from Table:	B =	0.3124
Interpolated "C" from Table:	C =	1.41985
Ln(Re/rw) where Lw < H		1.69491
Ln(Re/rw) where Lw = H		2.14787
Yo =		1.2
Yt =		0.1
t =		10

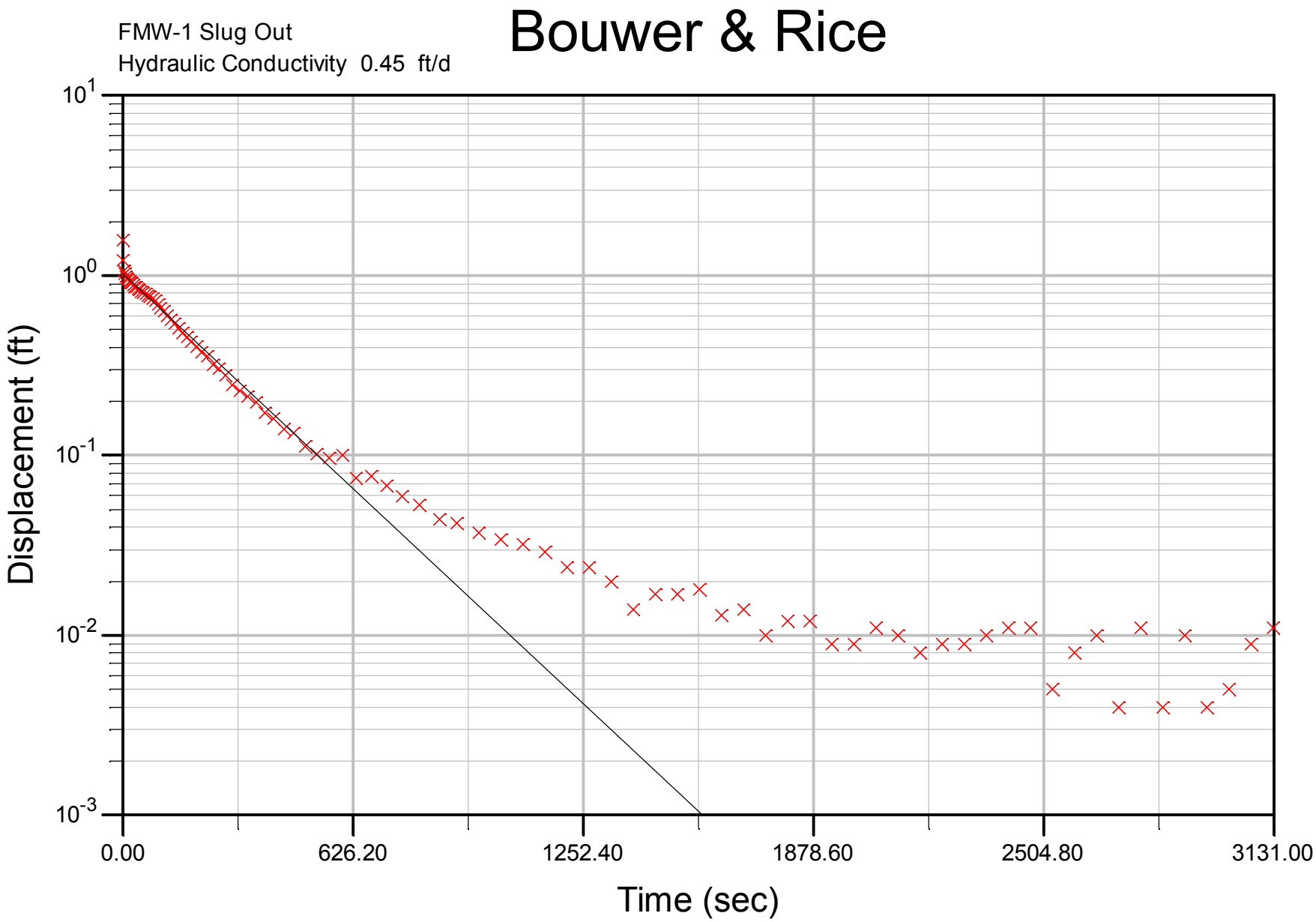
K (ft/sec) where Lw < H	0.00025	ft/sec	21.67	ft/day
K (ft/sec) where Lw = H	0.00032	ft/sec	27.46	ft/day

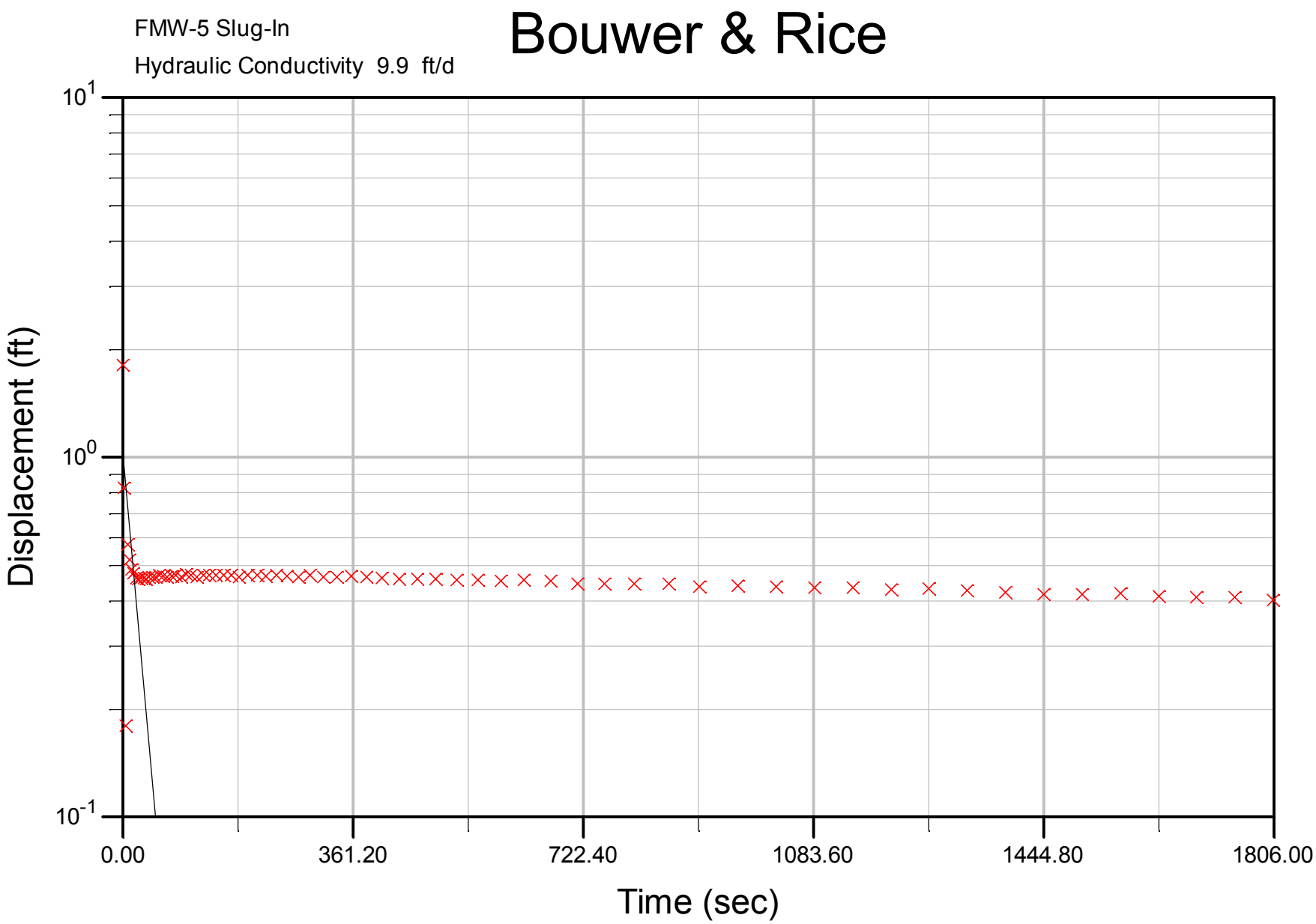
FMW-1 Slug-In

Hydraulic Conductivity 0.58 ft/d

Bouwer & Rice



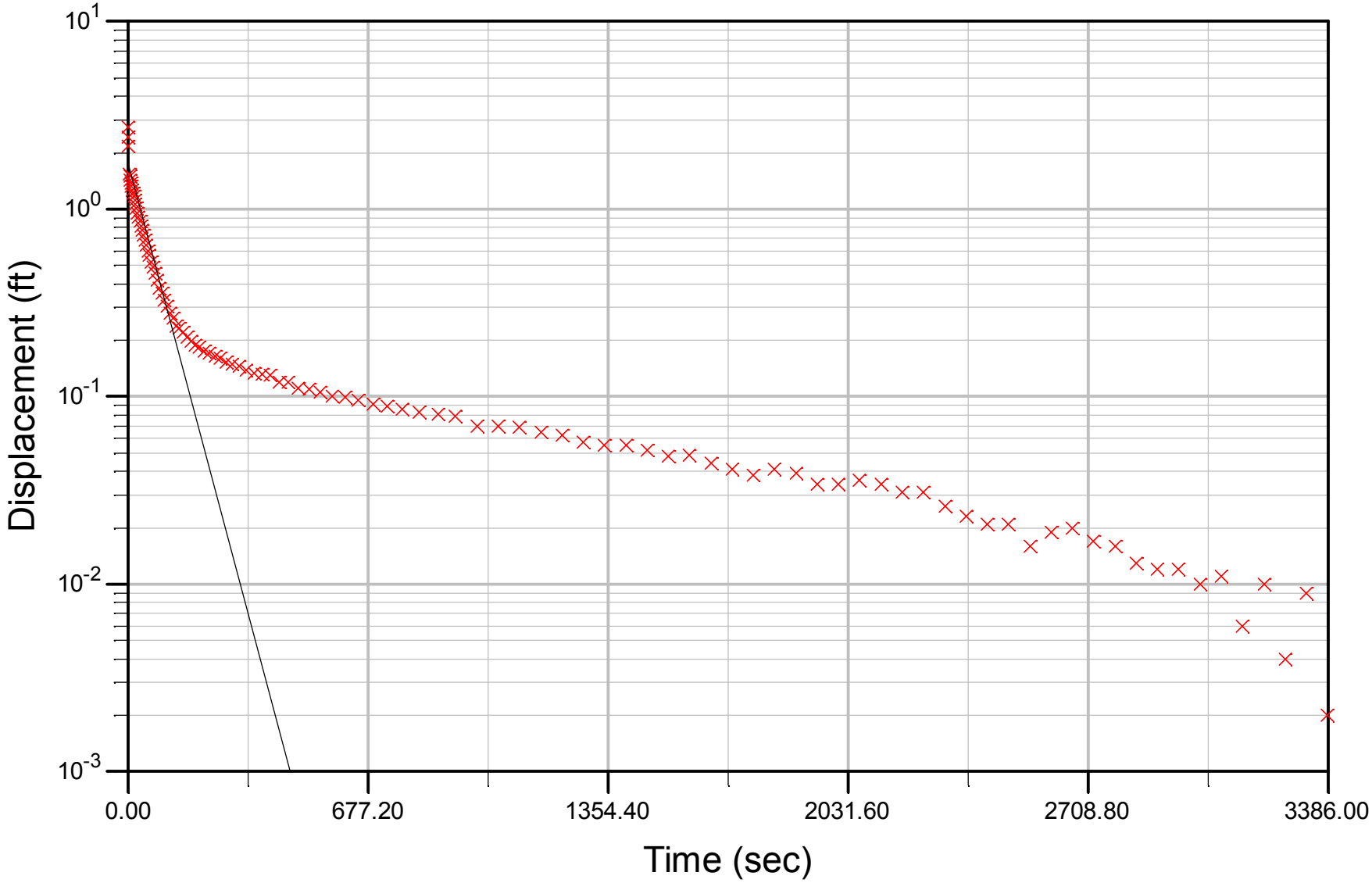

Bouwer & Rice
FMW-1 Slug Out
Hydraulic Conductivity 0.45 ft/d
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.00
626.20
1252.40
1878.60
2504.80
3131.00
Time (sec)

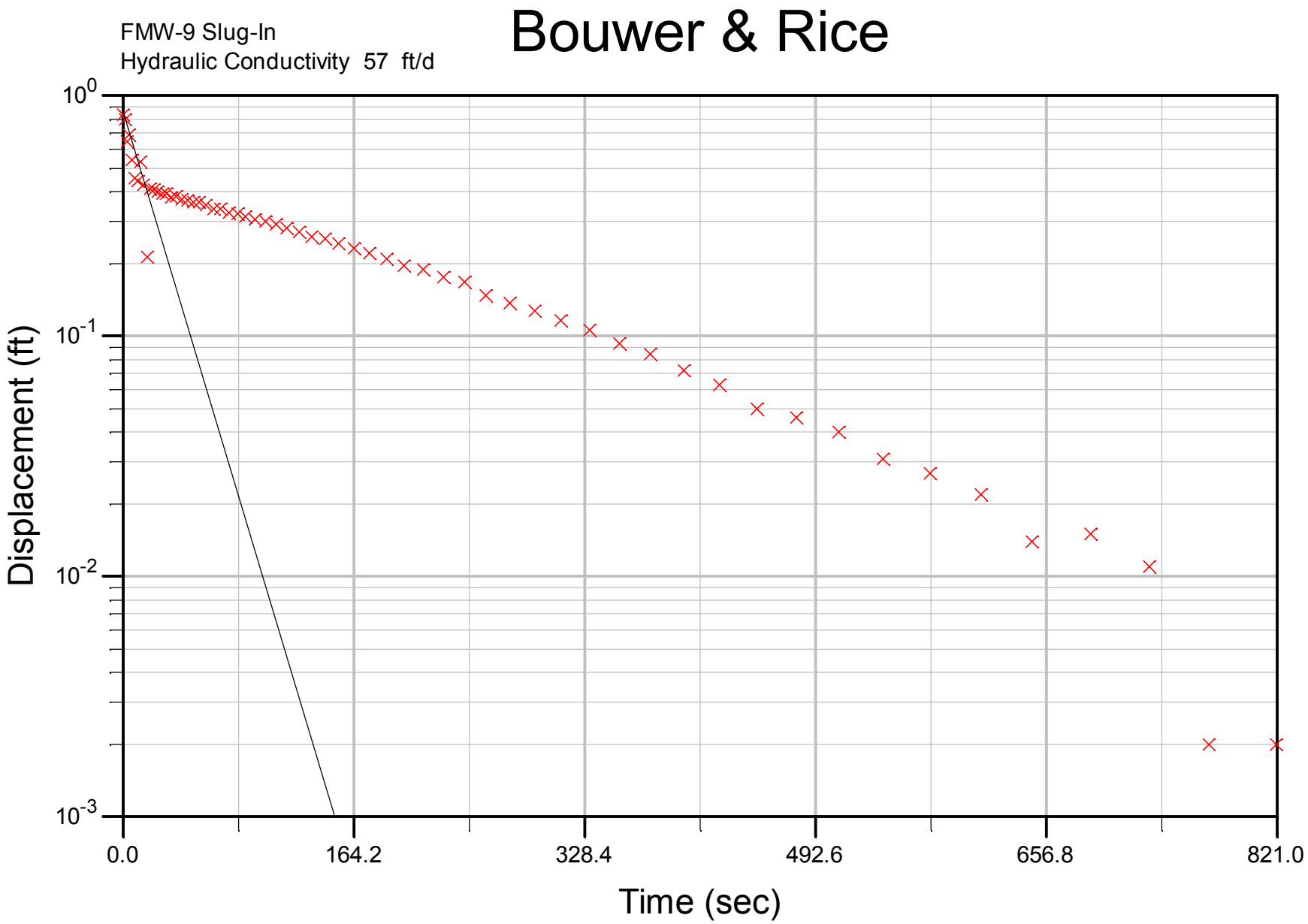

FMW-5 Slug-In
Hydraulic Conductivity 9.9 ft/d
Bouwer & Rice
Displacement (ft)
10^1
10^0
10^{-1}
0.00
361.20
722.40
1083.60
1444.80
1806.00
Time (sec)

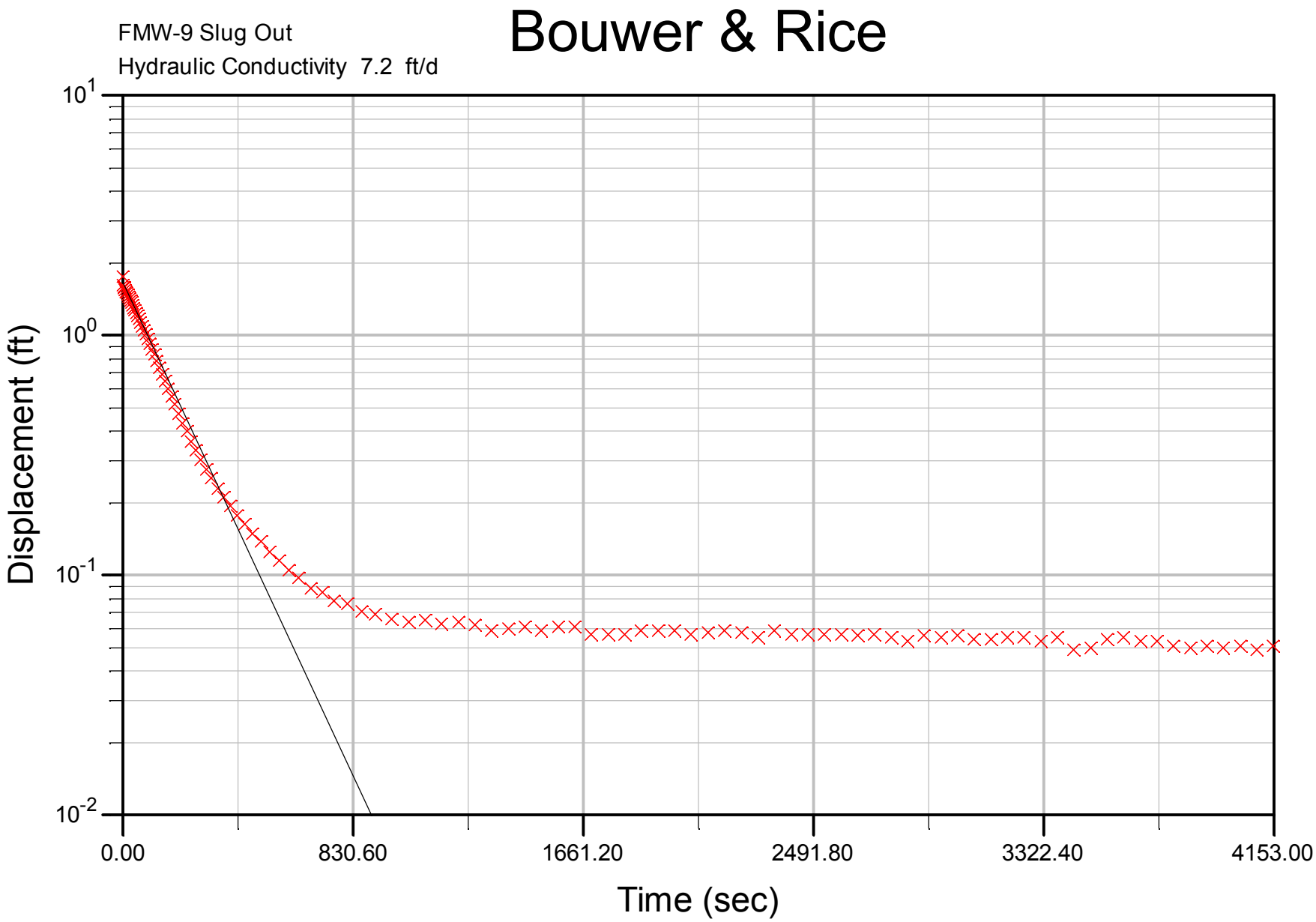
FMW-5 Slug-Out

Hydraulic Conductivity 3.68 ft/d

Bouwer & Rice




FMW-9 Slug-In
Hydraulic Conductivity 57 ft/d
Bouwer & Rice
Displacement (ft)
10^0
10^{-1}
10^{-2}
10^{-3}
0.0
164.2
328.4
492.6
656.8
821.0
Time (sec)


Bouwer & Rice
FMW-9 Slug Out
Hydraulic Conductivity 7.2 ft/d
Displacement (ft)
10^1
10^0
10^{-1}
10^{-2}
0.00
830.60
1661.20
2491.80
3322.40
4153.00
Time (sec)

APPENDIX E – LABORATORY DATA REPORTS

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 07, 2010

Joe King
Winter Environmental
3350 Green Pointe Parkway, Suite 200
Norcross GA 30092

TEL: (404) 965-2323
FAX: (404) 223-6251

RE: Fashion Care

Dear Joe King: Order No: 1005N93

Analytical Environmental Services, Inc. received 8 samples on 5/28/2010 3:10:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

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

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

Chantelle Kanhai
Project Manager

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

CHAIN OF CUSTODY

Work Order: 100 5N93

Date: 5-28-10 Page 1 of 1

COMPANY: Winter Environmental

ADDRESS: 3350 Green Pointe Parkway Suite 200 Norcross GA 30092

PHONE: 404 588 3300

FAX: 404-223 6251

SAMPLED BY: JDK

SIGNATURE: Jeff DK

ANALYSIS REQUESTED: VOC, VOC

PRESERVATION (See codes): H, S/M

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOC (H)	VOC (S/M)	REMARKS	No # of Containers
1	MW-19	5-27-10	1310	X		GW	2			2
2	MW-21	5-27-10	1410	X		GW	2			2
3	MW-14	5-27-10	1625	X		GW	2			2
4	SD-1	5-28-10	1345	X		SE		4		4
5	SD-2	5-28-10	1415	X		SE		4		4
6	SD-3	5-28-10	1430	X		SE		4		4
7	DUP20110	5-28-10		X		SE		4		4
8	TBLK20110	5-27-10	1300	X		W	2			2
9										
10										
11										
12										
13										
14										

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Jeff DK	5-28-10 3:12	1: [illegible]	5/28/10 3:10
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME:
PROJECT #:
SITE ADDRESS:
SEND REPORT TO:
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers: 24

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 7-Jun-10

Client: Winter Environmental
Project: Fashion Care
Lab ID: 1005N93

Case Narrative

The project name "Fashion Care" was taken from the sample containers.

Volatiles Organic Compounds Analysis by Method 8260B:

Percent recovery for the internal standard 1,4-Dichlorobenzene-d4 on sample 1005N93-006A was outside control limits biased low due to suspected matrix interference. All other internal standard recoveries were within control limits.

Percent recoveries for all internal standard on sample 1005N93-004A was outside control limits biased low due to suspected matrix interference.

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	MW-19
Project:	Fashion Care	**Collection Date:**	5/27/2010 1:10:00 PM
Lab ID:	1005N93-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,1,2-Trichloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,1-Dichloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,1-Dichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,2-Dibromoethane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,2-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,2-Dichloroethane	BRL	1.0		ug/L	130295	1	06/05/2010 16:46	JT
1,2-Dichloropropane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,3-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,4-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
2-Butanone	BRL	50		ug/L	130295	1	06/05/2010 16:46	JT
2-Hexanone	BRL	10		ug/L	130295	1	06/05/2010 16:46	JT
4-Methyl-2-pentanone	BRL	10		ug/L	130295	1	06/05/2010 16:46	JT
Acetone	BRL	50		ug/L	130295	1	06/05/2010 16:46	JT
Benzene	BRL	1.0		ug/L	130295	1	06/05/2010 16:46	JT
Bromodichloromethane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Bromoform	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Bromomethane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Carbon disulfide	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Carbon tetrachloride	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Chlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Chloroethane	BRL	10		ug/L	130295	1	06/05/2010 16:46	JT
Chloroform	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Chloromethane	BRL	10		ug/L	130295	1	06/05/2010 16:46	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Cyclohexane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Dibromochloromethane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Dichlorodifluoromethane	BRL	10		ug/L	130295	1	06/05/2010 16:46	JT
Ethylbenzene	2.7	1.0		ug/L	130295	1	06/05/2010 16:46	JT
Freon-113	BRL	10		ug/L	130295	1	06/05/2010 16:46	JT
Isopropylbenzene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
m,p-Xylene	3.6	1.0		ug/L	130295	1	06/05/2010 16:46	JT
Methyl acetate	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Methyl tert-butyl ether	1.7	1.0		ug/L	130295	1	06/05/2010 16:46	JT
Methylcyclohexane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Methylene chloride	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
o-Xylene	BRL	1.0		ug/L	130295	1	06/05/2010 16:46	JT

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	MW-19
Project:	Fashion Care	**Collection Date:**	5/27/2010 1:10:00 PM
Lab ID:	1005N93-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Tetrachloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Toluene	BRL	1.0		ug/L	130295	1	06/05/2010 16:46	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Trichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Trichlorofluoromethane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Vinyl chloride	BRL	2.0		ug/L	130295	1	06/05/2010 16:46	JT
Surr: 4-Bromofluorobenzene	86	60.1-127		%REC	130295	1	06/05/2010 16:46	JT
Surr: Dibromofluoromethane	117	79.6-126		%REC	130295	1	06/05/2010 16:46	JT
Surr: Toluene-d8	96.9	78-116		%REC	130295	1	06/05/2010 16:46	JT

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	MW-21
Project:	Fashion Care	**Collection Date:**	5/27/2010 2:10:00 PM
Lab ID:	1005N93-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,1,2-Trichloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,1-Dichloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,1-Dichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,2-Dibromoethane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,2-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,2-Dichloroethane	BRL	1.0		ug/L	130295	1	06/05/2010 12:10	JT
1,2-Dichloropropane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,3-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,4-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
2-Butanone	BRL	50		ug/L	130295	1	06/05/2010 12:10	JT
2-Hexanone	31	10		ug/L	130295	1	06/05/2010 12:10	JT
4-Methyl-2-pentanone	17	10		ug/L	130295	1	06/05/2010 12:10	JT
Acetone	BRL	50		ug/L	130295	1	06/05/2010 12:10	JT
Benzene	1200	10		ug/L	130295	10	06/05/2010 21:33	JT
Bromodichloromethane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Bromoform	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Bromomethane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Carbon disulfide	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Carbon tetrachloride	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Chlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Chloroethane	BRL	10		ug/L	130295	1	06/05/2010 12:10	JT
Chloroform	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Chloromethane	BRL	10		ug/L	130295	1	06/05/2010 12:10	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Cyclohexane	30	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Dibromochloromethane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Dichlorodifluoromethane	BRL	10		ug/L	130295	1	06/05/2010 12:10	JT
Ethylbenzene	500	10		ug/L	130295	10	06/05/2010 21:33	JT
Freon-113	BRL	10		ug/L	130295	1	06/05/2010 12:10	JT
Isopropylbenzene	28	5.0		ug/L	130295	1	06/05/2010 12:10	JT
m,p-Xylene	1200	10		ug/L	130295	10	06/05/2010 21:33	JT
Methyl acetate	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Methyl tert-butyl ether	270	10		ug/L	130295	10	06/05/2010 21:33	JT
Methylcyclohexane	39	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Methylene chloride	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
o-Xylene	1100	10		ug/L	130295	10	06/05/2010 21:33	JT

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	MW-21
Project:	Fashion Care	**Collection Date:**	5/27/2010 2:10:00 PM
Lab ID:	1005N93-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Tetrachloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Toluene	260	10		ug/L	130295	10	06/05/2010 21:33	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Trichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Trichlorofluoromethane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Vinyl chloride	BRL	2.0		ug/L	130295	1	06/05/2010 12:10	JT
Surr: 4-Bromofluorobenzene	96.3	60.1-127		%REC	130295	10	06/05/2010 21:33	JT
Surr: 4-Bromofluorobenzene	102	60.1-127		%REC	130295	1	06/05/2010 12:10	JT
Surr: Dibromofluoromethane	98.4	79.6-126		%REC	130295	1	06/05/2010 12:10	JT
Surr: Dibromofluoromethane	102	79.6-126		%REC	130295	10	06/05/2010 21:33	JT
Surr: Toluene-d8	97.5	78-116		%REC	130295	10	06/05/2010 21:33	JT
Surr: Toluene-d8	99.6	78-116		%REC	130295	1	06/05/2010 12:10	JT

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	MW-14
Project:	Fashion Care	**Collection Date:**	5/27/2010 4:25:00 PM
Lab ID:	1005N93-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,1,2-Trichloroethane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,1-Dichloroethane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,1-Dichloroethene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,2-Dibromoethane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,2-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,2-Dichloroethane	BRL	1.0		ug/L	130295	1	06/07/2010 14:00	JT
1,2-Dichloropropane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,3-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,4-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
2-Butanone	BRL	50		ug/L	130295	1	06/07/2010 14:00	JT
2-Hexanone	BRL	10		ug/L	130295	1	06/07/2010 14:00	JT
4-Methyl-2-pentanone	BRL	10		ug/L	130295	1	06/07/2010 14:00	JT
Acetone	BRL	50		ug/L	130295	1	06/07/2010 14:00	JT
Benzene	BRL	1.0		ug/L	130295	1	06/07/2010 14:00	JT
Bromodichloromethane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Bromoform	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Bromomethane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Carbon disulfide	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Carbon tetrachloride	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Chlorobenzene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Chloroethane	BRL	10		ug/L	130295	1	06/07/2010 14:00	JT
Chloroform	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Chloromethane	BRL	10		ug/L	130295	1	06/07/2010 14:00	JT
cis-1,2-Dichloroethene	7.4	5.0		ug/L	130295	1	06/07/2010 14:00	JT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Cyclohexane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Dibromochloromethane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Dichlorodifluoromethane	BRL	10		ug/L	130295	1	06/07/2010 14:00	JT
Ethylbenzene	BRL	1.0		ug/L	130295	1	06/07/2010 14:00	JT
Freon-113	BRL	10		ug/L	130295	1	06/07/2010 14:00	JT
Isopropylbenzene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
m,p-Xylene	BRL	1.0		ug/L	130295	1	06/07/2010 14:00	JT
Methyl acetate	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Methyl tert-butyl ether	3.3	1.0		ug/L	130295	1	06/07/2010 14:00	JT
Methylcyclohexane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Methylene chloride	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
o-Xylene	BRL	1.0		ug/L	130295	1	06/07/2010 14:00	JT

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	MW-14
Project:	Fashion Care	**Collection Date:**	5/27/2010 4:25:00 PM
Lab ID:	1005N93-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Tetrachloroethene	10	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Toluene	BRL	1.0		ug/L	130295	1	06/07/2010 14:00	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Trichloroethene	20	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Trichlorofluoromethane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Vinyl chloride	BRL	2.0		ug/L	130295	1	06/07/2010 14:00	JT
Surr: 4-Bromofluorobenzene	82.8	60.1-127		%REC	130295	1	06/07/2010 14:00	JT
Surr: Dibromofluoromethane	111	79.6-126		%REC	130295	1	06/07/2010 14:00	JT
Surr: Toluene-d8	94.8	78-116		%REC	130295	1	06/07/2010 14:00	JT

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	SD-1
Project:	Fashion Care	**Collection Date:**	5/28/2010 1:45:00 PM
Lab ID:	1005N93-004	**Matrix:**	Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,1,2,2-Tetrachloroethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,1,2-Trichloroethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,1-Dichloroethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,1-Dichloroethene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,2,4-Trichlorobenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,2-Dibromo-3-chloropropane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,2-Dibromoethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,2-Dichlorobenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,2-Dichloroethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,2-Dichloropropane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,3-Dichlorobenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,4-Dichlorobenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
2-Butanone	BRL	36		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
2-Hexanone	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
4-Methyl-2-pentanone	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Acetone	BRL	72		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Benzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Bromodichloromethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Bromoform	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Bromomethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Carbon disulfide	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Carbon tetrachloride	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Chlorobenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Chloroethane	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Chloroform	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Chloromethane	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
cis-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
cis-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Cyclohexane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Dibromochloromethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Dichlorodifluoromethane	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Ethylbenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Freon-113	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Isopropylbenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
m,p-Xylene	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Methyl acetate	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Methyl tert-butyl ether	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Methylcyclohexane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Methylene chloride	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
o-Xylene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	SD-1
Project:	Fashion Care	**Collection Date:**	5/28/2010 1:45:00 PM
Lab ID:	1005N93-004	**Matrix:**	Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
Styrene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Tetrachloroethene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Toluene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
trans-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
trans-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Trichloroethene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Trichlorofluoromethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Vinyl chloride	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Surr: 4-Bromofluorobenzene	68.5	58.2-140		%REC	130407	1	06/04/2010 17:28	JE
Surr: Dibromofluoromethane	133	71.1-132	S	%REC	130407	1	06/04/2010 17:28	JE
Surr: Toluene-d8	98.8	77.6-119		%REC	130407	1	06/04/2010 17:28	JE
PERCENT MOISTURE D2216								
Percent Moisture	5.01	0		wt%	R173178	1	06/03/2010 19:00	AS

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	SD-2
Project:	Fashion Care	**Collection Date:**	5/28/2010 2:15:00 PM
Lab ID:	1005N93-005	**Matrix:**	Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,1,2,2-Tetrachloroethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,1,2-Trichloroethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,1-Dichloroethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,1-Dichloroethene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,2,4-Trichlorobenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,2-Dibromo-3-chloropropane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,2-Dibromoethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,2-Dichlorobenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,2-Dichloroethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,2-Dichloropropane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,3-Dichlorobenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,4-Dichlorobenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
2-Butanone	BRL	36		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
2-Hexanone	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
4-Methyl-2-pentanone	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Acetone	280	72		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Benzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Bromodichloromethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Bromoform	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Bromomethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Carbon disulfide	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Carbon tetrachloride	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Chlorobenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Chloroethane	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Chloroform	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Chloromethane	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
cis-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
cis-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Cyclohexane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Dibromochloromethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Dichlorodifluoromethane	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Ethylbenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Freon-113	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Isopropylbenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
m,p-Xylene	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Methyl acetate	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Methyl tert-butyl ether	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Methylcyclohexane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Methylene chloride	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
o-Xylene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	SD-2
Project:	Fashion Care	**Collection Date:**	5/28/2010 2:15:00 PM
Lab ID:	1005N93-005	**Matrix:**	Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
Styrene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Tetrachloroethene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Toluene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
trans-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
trans-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Trichloroethene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Trichlorofluoromethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Vinyl chloride	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Surr: 4-Bromofluorobenzene	80.1	58.2-140		%REC	130407	1	06/04/2010 04:28	JE
Surr: Dibromofluoromethane	119	71.1-132		%REC	130407	1	06/04/2010 04:28	JE
Surr: Toluene-d8	98.6	77.6-119		%REC	130407	1	06/04/2010 04:28	JE
PERCENT MOISTURE D2216								
Percent Moisture	21.3	0		wt%	R173178	1	06/03/2010 19:00	AS

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	SD-3
Project:	Fashion Care	**Collection Date:**	5/28/2010 2:30:00 PM
Lab ID:	1005N93-006	**Matrix:**	Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,1,2,2-Tetrachloroethane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,1,2-Trichloroethane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,1-Dichloroethane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,1-Dichloroethene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,2,4-Trichlorobenzene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,2-Dibromo-3-chloropropane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,2-Dibromoethane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,2-Dichlorobenzene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,2-Dichloroethane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,2-Dichloropropane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,3-Dichlorobenzene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,4-Dichlorobenzene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
2-Butanone	BRL	41		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
2-Hexanone	BRL	8.2		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
4-Methyl-2-pentanone	BRL	8.2		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Acetone	240	82		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Benzene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Bromodichloromethane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Bromoform	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Bromomethane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Carbon disulfide	BRL	8.2		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Carbon tetrachloride	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Chlorobenzene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Chloroethane	BRL	8.2		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Chloroform	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Chloromethane	BRL	8.2		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
cis-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
cis-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Cyclohexane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Dibromochloromethane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Dichlorodifluoromethane	BRL	8.2		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Ethylbenzene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Freon-113	BRL	8.2		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Isopropylbenzene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
m,p-Xylene	BRL	8.2		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Methyl acetate	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Methyl tert-butyl ether	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Methylcyclohexane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Methylene chloride	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
o-Xylene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	SD-3
Project:	Fashion Care	**Collection Date:**	5/28/2010 2:30:00 PM
Lab ID:	1005N93-006	**Matrix:**	Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
Styrene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Tetrachloroethene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Toluene	4.7	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
trans-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
trans-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Trichloroethene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Trichlorofluoromethane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Vinyl chloride	BRL	8.2		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Surr: 4-Bromofluorobenzene	75.1	58.2-140		%REC	130407	1	06/04/2010 17:03	JE
Surr: Dibromofluoromethane	123	71.1-132		%REC	130407	1	06/04/2010 17:03	JE
Surr: Toluene-d8	102	77.6-119		%REC	130407	1	06/04/2010 17:03	JE
PERCENT MOISTURE D2216								
Percent Moisture	31.1	0		wt%	R173178	1	06/03/2010 19:00	AS

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	DUP 20110
Project:	Fashion Care	**Collection Date:**	5/28/2010
Lab ID:	1005N93-007	**Matrix:**	Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,1,2,2-Tetrachloroethane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,1,2-Trichloroethane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,1-Dichloroethane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,1-Dichloroethene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,2,4-Trichlorobenzene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,2-Dibromo-3-chloropropane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,2-Dibromoethane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,2-Dichlorobenzene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,2-Dichloroethane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,2-Dichloropropane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,3-Dichlorobenzene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,4-Dichlorobenzene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
2-Butanone	BRL	35		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
2-Hexanone	BRL	6.9		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
4-Methyl-2-pentanone	BRL	6.9		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Acetone	230	69		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Benzene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Bromodichloromethane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Bromoform	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Bromomethane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Carbon disulfide	BRL	6.9		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Carbon tetrachloride	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Chlorobenzene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Chloroethane	BRL	6.9		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Chloroform	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Chloromethane	BRL	6.9		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
cis-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
cis-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Cyclohexane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Dibromochloromethane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Dichlorodifluoromethane	BRL	6.9		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Ethylbenzene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Freon-113	BRL	6.9		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Isopropylbenzene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
m,p-Xylene	BRL	6.9		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Methyl acetate	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Methyl tert-butyl ether	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Methylcyclohexane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Methylene chloride	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
o-Xylene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	DUP 20110
Project:	Fashion Care	**Collection Date:**	5/28/2010
Lab ID:	1005N93-007	**Matrix:**	Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
Styrene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Tetrachloroethene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Toluene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
trans-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
trans-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Trichloroethene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Trichlorofluoromethane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Vinyl chloride	BRL	6.9		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Surr: 4-Bromofluorobenzene	83.2	58.2-140		%REC	130407	1	06/04/2010 05:17	JE
Surr: Dibromofluoromethane	127	71.1-132		%REC	130407	1	06/04/2010 05:17	JE
Surr: Toluene-d8	106	77.6-119		%REC	130407	1	06/04/2010 05:17	JE
PERCENT MOISTURE D2216								
Percent Moisture	20.2	0		wt%	R173178	1	06/03/2010 19:00	AS

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	TBLK 20110
Project:	Fashion Care	**Collection Date:**	5/27/2010 1:00:00 PM
Lab ID:	1005N93-008	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,1,2-Trichloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,1-Dichloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,1-Dichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,2-Dibromoethane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,2-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,2-Dichloroethane	BRL	1.0		ug/L	130295	1	06/05/2010 13:08	JT
1,2-Dichloropropane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,3-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,4-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
2-Butanone	BRL	50		ug/L	130295	1	06/05/2010 13:08	JT
2-Hexanone	BRL	10		ug/L	130295	1	06/05/2010 13:08	JT
4-Methyl-2-pentanone	BRL	10		ug/L	130295	1	06/05/2010 13:08	JT
Acetone	BRL	50		ug/L	130295	1	06/05/2010 13:08	JT
Benzene	BRL	1.0		ug/L	130295	1	06/05/2010 13:08	JT
Bromodichloromethane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Bromoform	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Bromomethane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Carbon disulfide	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Carbon tetrachloride	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Chlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Chloroethane	BRL	10		ug/L	130295	1	06/05/2010 13:08	JT
Chloroform	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Chloromethane	BRL	10		ug/L	130295	1	06/05/2010 13:08	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Cyclohexane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Dibromochloromethane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Dichlorodifluoromethane	BRL	10		ug/L	130295	1	06/05/2010 13:08	JT
Ethylbenzene	BRL	1.0		ug/L	130295	1	06/05/2010 13:08	JT
Freon-113	BRL	10		ug/L	130295	1	06/05/2010 13:08	JT
Isopropylbenzene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
m,p-Xylene	BRL	1.0		ug/L	130295	1	06/05/2010 13:08	JT
Methyl acetate	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	130295	1	06/05/2010 13:08	JT
Methylcyclohexane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Methylene chloride	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
o-Xylene	BRL	1.0		ug/L	130295	1	06/05/2010 13:08	JT

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	TBLK 20110
Project:	Fashion Care	**Collection Date:**	5/27/2010 1:00:00 PM
Lab ID:	1005N93-008	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Tetrachloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Toluene	BRL	1.0		ug/L	130295	1	06/05/2010 13:08	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Trichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Trichlorofluoromethane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Vinyl chloride	BRL	2.0		ug/L	130295	1	06/05/2010 13:08	JT
Surr: 4-Bromofluorobenzene	88.3	60.1-127		%REC	130295	1	06/05/2010 13:08	JT
Surr: Dibromofluoromethane	107	79.6-126		%REC	130295	1	06/05/2010 13:08	JT
Surr: Toluene-d8	95.4	78-116		%REC	130295	1	06/05/2010 13:08	JT

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Winter Env Work Order Number 1005N93

Checklist completed by M. [signature] 5/28/10
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

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

Cooler #1 3.6°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

Analytical Environmental Services, Inc

Date: 7-Jun-10

Client: Winter Environmental
Project: Fashion Care
Lab Order: 1005N93

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1005N93-001A	MW-19	5/27/2010 1:10:00PM	Groundwater	TCL VOLATILE ORGANICS		06/02/2010	06/05/2010
1005N93-002A	MW-21	5/27/2010 2:10:00PM	Groundwater	TCL VOLATILE ORGANICS		06/02/2010	06/05/2010
1005N93-003A	MW-14	5/27/2010 4:25:00PM	Groundwater	TCL VOLATILE ORGANICS		06/02/2010	06/05/2010
1005N93-003A	MW-14	5/27/2010 4:25:00PM	Groundwater	TCL VOLATILE ORGANICS		06/02/2010	06/07/2010
1005N93-004A	SD-1	5/28/2010 1:45:00PM	Sediment	TCL VOLATILE ORGANICS		06/03/2010	06/04/2010
1005N93-004B	SD-1	5/28/2010 1:45:00PM	Sediment	PERCENT MOISTURE			06/03/2010
1005N93-005A	SD-2	5/28/2010 2:15:00PM	Sediment	TCL VOLATILE ORGANICS		06/03/2010	06/04/2010
1005N93-005B	SD-2	5/28/2010 2:15:00PM	Sediment	PERCENT MOISTURE			06/03/2010
1005N93-006A	SD-3	5/28/2010 2:30:00PM	Sediment	TCL VOLATILE ORGANICS		06/03/2010	06/04/2010
1005N93-006B	SD-3	5/28/2010 2:30:00PM	Sediment	PERCENT MOISTURE			06/03/2010
1005N93-007A	DUP 20110	5/28/2010 12:00:00AM	Sediment	TCL VOLATILE ORGANICS		06/03/2010	06/04/2010
1005N93-007B	DUP 20110	5/28/2010 12:00:00AM	Sediment	PERCENT MOISTURE			06/03/2010
1005N93-008A	TBLK 20110	5/27/2010 1:00:00PM	Aqueous	TCL VOLATILE ORGANICS		06/02/2010	06/05/2010

Analytical Environmental Services, Inc

Date: 7-Jun-10

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1005N93

ANALYTICAL QC SUMMARY REPORT

BatchID: 130295

Sample ID: **MB-130295** Client ID: Units: **ug/L** Prep Date: **06/02/2010** Run No: **172995**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130295** Analysis Date: **06/02/2010** Seq No: **3596941**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Benzene	BRL	1.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	

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

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1005N93

ANALYTICAL QC SUMMARY REPORT

BatchID: 130295

Sample ID: **MB-130295** Client ID: Units: **ug/L** Prep Date: **06/02/2010** Run No: **172995**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130295** Analysis Date: **06/02/2010** Seq No: **3596941**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	1.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	1.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	1.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	1.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	43.17	0	50	0	86.3	60.1	127	0	0	0	
Surr: Dibromofluoromethane	50.14	0	50	0	100	79.6	126	0	0	0	
Surr: Toluene-d8	44.67	0	50	0	89.3	78	116	0	0	0	

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

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1005N93

ANALYTICAL QC SUMMARY REPORT

BatchID: 130295

Sample ID: **LCS-130295** Client ID: Units: **ug/L** Prep Date: **06/02/2010** Run No: **172995**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130295** Analysis Date: **06/02/2010** Seq No: **3596940**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	44.87	5.0	50	0	89.7	61.4	146	0	0	0	
Benzene	48.99	1.0	50	0	98	72.8	131	0	0	0	
Chlorobenzene	48.04	5.0	50	0	96.1	76	123	0	0	0	
Toluene	47.46	1.0	50	0	94.9	74.7	128	0	0	0	
Trichloroethene	45.79	5.0	50	0	91.6	74.4	130	0	0	0	
Surr: 4-Bromofluorobenzene	48.52	0	50	0	97	60.1	127	0	0	0	
Surr: Dibromofluoromethane	50.83	0	50	0	102	79.6	126	0	0	0	
Surr: Toluene-d8	49.11	0	50	0	98.2	78	116	0	0	0	

Sample ID: **1005O45-001AMS** Client ID: Units: **ug/L** Prep Date: **06/02/2010** Run No: **172995**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130295** Analysis Date: **06/02/2010** Seq No: **3597512**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	31610	2500	25000	0	126	48.8	172	0	0	0	
Benzene	28630	500	25000	0	114	64.5	143	0	0	0	
Chlorobenzene	26630	2500	25000	0	107	74.5	129	0	0	0	
Toluene	27060	500	25000	0	108	62	145	0	0	0	
Trichloroethene	28010	2500	25000	0	112	70.3	140	0	0	0	
Surr: 4-Bromofluorobenzene	20830	0	25000	0	83.3	60.1	127	0	0	0	
Surr: Dibromofluoromethane	25480	0	25000	0	102	79.6	126	0	0	0	
Surr: Toluene-d8	22670	0	25000	0	90.7	78	116	0	0	0	

Sample ID: **1005O45-001AMSD** Client ID: Units: **ug/L** Prep Date: **06/02/2010** Run No: **172995**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130295** Analysis Date: **06/02/2010** Seq No: **3597514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	31120	2500	25000	0	124	48.8	172	31610	1.56	21.6	
Benzene	28560	500	25000	0	114	64.5	143	28630	0.245	18.3	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 7-Jun-10

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1005N93

ANALYTICAL QC SUMMARY REPORT

BatchID: 130295

Sample ID: **1005O45-001AMSD** Client ID: Units: **ug/L** Prep Date: **06/02/2010** Run No: **172995**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130295** Analysis Date: **06/02/2010** Seq No: **3597514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	26180	2500	25000	0	105	74.5	129	26630	1.72	19.2	
Toluene	26530	500	25000	0	106	62	145	27060	1.98	21.2	
Trichloroethene	28840	2500	25000	0	115	70.3	140	28010	2.9	20.3	
Surr: 4-Bromofluorobenzene	21260	0	25000	0	85	60.1	127	20830	0	0	
Surr: Dibromofluoromethane	25070	0	25000	0	100	79.6	126	25480	0	0	
Surr: Toluene-d8	22640	0	25000	0	90.5	78	116	22670	0	0	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 7-Jun-10

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1005N93

ANALYTICAL QC SUMMARY REPORT

BatchID: 130407

Sample ID: **MB-130407** Client ID: Units: **ug/Kg** Prep Date: **06/03/2010** Run No: **173224**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130407** Analysis Date: **06/04/2010** Seq No: **3601027**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	100	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	10	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	

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

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1005N93

ANALYTICAL QC SUMMARY REPORT

BatchID: 130407

Sample ID: **MB-130407** Client ID: Units: **ug/Kg** Prep Date: **06/03/2010** Run No: **173224**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130407** Analysis Date: **06/04/2010** Seq No: **3601027**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	10	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	10	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	43.95	0	50	0	87.9	58.2	140	0	0	0	
Surr: Dibromofluoromethane	59.09	0	50	0	118	71.1	132	0	0	0	
Surr: Toluene-d8	49.94	0	50	0	99.9	77.6	119	0	0	0	

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

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1005N93

ANALYTICAL QC SUMMARY REPORT

BatchID: 130407

Sample ID: **LCS-130407** Client ID: Units: **ug/Kg** Prep Date: **06/03/2010** Run No: **173224**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130407** Analysis Date: **06/03/2010** Seq No: **3600978**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	48.64	5.0	50	0	97.3	66.1	158	0	0	0	
Benzene	46.43	5.0	50	0	92.9	68.7	139	0	0	0	
Chlorobenzene	45.96	5.0	50	0	91.9	74.1	136	0	0	0	
Toluene	46.03	5.0	50	0	92.1	68.5	139	0	0	0	
Trichloroethene	44.28	5.0	50	0	88.6	74.5	137	0	0	0	
Surr: 4-Bromofluorobenzene	52.53	0	50	0	105	58.2	140	0	0	0	
Surr: Dibromofluoromethane	48.41	0	50	0	96.8	71.1	132	0	0	0	
Surr: Toluene-d8	49.77	0	50	0	99.5	77.6	119	0	0	0	

Sample ID: **1005M42-005AMS** Client ID: Units: **ug/Kg-dry** Prep Date: **06/03/2010** Run No: **173224**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130407** Analysis Date: **06/03/2010** Seq No: **3601208**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	67.49	6.0	60.28	0	112	60.6	160	0	0	0	
Benzene	71.67	6.0	60.28	0	119	64	142	0	0	0	
Chlorobenzene	68.02	6.0	60.28	0	113	70.6	140	0	0	0	
Toluene	66.03	6.0	60.28	0	110	61.6	143	0	0	0	
Trichloroethene	67.17	6.0	60.28	0	111	70.3	147	0	0	0	
Surr: 4-Bromofluorobenzene	62.07	0	60.28	0	103	58.2	140	0	0	0	
Surr: Dibromofluoromethane	66.70	0	60.28	0	111	71.1	132	0	0	0	
Surr: Toluene-d8	60.36	0	60.28	0	100	77.6	119	0	0	0	

Sample ID: **1005M42-005AMSD** Client ID: Units: **ug/Kg-dry** Prep Date: **06/03/2010** Run No: **173224**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130407** Analysis Date: **06/03/2010** Seq No: **3601210**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	74.58	6.0	60.28	0	124	60.6	160	67.49	9.98	30.9	
Benzene	68.56	6.0	60.28	0	114	64	142	71.67	4.44	22.5	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 7-Jun-10

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1005N93

ANALYTICAL QC SUMMARY REPORT

BatchID: 130407

Sample ID: **1005M42-005AMSD** Client ID: Units: **ug/Kg-dry** Prep Date: **06/03/2010** Run No: **173224**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130407** Analysis Date: **06/03/2010** Seq No: **3601210**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	63.39	6.0	60.28	0	105	70.6	140	68.02	7.05	21.9	
Toluene	67.22	6.0	60.28	0	112	61.6	143	66.03	1.79	25.8	
Trichloroethene	66.43	6.0	60.28	0	110	70.3	147	67.17	1.12	28	
Surr: 4-Bromofluorobenzene	60.48	0	60.28	0	100	58.2	140	62.07	0	0	
Surr: Dibromofluoromethane	62.56	0	60.28	0	104	71.1	132	66.70	0	0	
Surr: Toluene-d8	63.02	0	60.28	0	105	77.6	119	60.36	0	0	

Qualifiers:

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

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 22, 2010

Leonard Diprima
Winter Environmental
3350 Green Pointe Parkway, Suite 200
Norcross GA 30092

TEL: (404) 965-2323
FAX: (404) 223-6251

RE: Fashion Care

Dear Leonard Diprima: Order No: 1006D68

Analytical Environmental Services, Inc. received 2 samples on 6/15/2010 6:10:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

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

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

Chantelle Kanhai
Project Manager

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

CHAIN OF CUSTODY

Work Order: 1006D68

Date: 6-15-10 Page 1 of 1

COMPANY: Winter Environmental Len DiPrima

ADDRESS: 3350 Greenpoint Pky Norcross, GA

PHONE:

FAX:

SAMPLED BY: LL/VO

SIGNATURE:

ANALYSIS REQUESTED: Chlorinated VOC's (TCL VOC's)

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	Chlorinated VOC's (TCL VOC's)	REMARKS	No # of Containers
1	FMW 15 061510	6-15-10	16:25	✓		GW	✓		2
2	FMW 16 061510	6-15-10	16:45	✓		GW	✓		2
3	FMW 17 061510	6-15-10	14:32	✓		GW	✓		2
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: V Owa	6/15/10 18:10	1: Mafe	6/15/10 6:10
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS: TCL VOC's

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: Fashion Care
PROJECT #:
SITE ADDRESS:
SEND REPORT TO:
INVOICE TO: (IF DIFFERENT FROM ABOVE) Winter Environmental
QUOTE #: PO#:

RECEIPT
Total # of Containers: 6

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

STATE PROGRAM (if any):
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 22-Jun-10

Client: Winter Environmental
Project: Fashion Care
Lab ID: 1006D68

Case Narrative

Per Victor Owens on 6/18/2010 at 8:50AM via telephone, sample "FMW 17061510" was placed on hold.

Sample Receiving Nonconformance:

A Trip Blank was provided but not listed on the Chain of Custody.

Analytical Environmental Services, Inc **Date:** 22-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	FMW 15061510
Project:	Fashion Care	**Collection Date:**	6/15/2010 4:25:00 PM
Lab ID:	1006D68-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
1,1,2-Trichloroethane	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
1,1-Dichloroethane	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
1,1-Dichloroethene	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
1,2-Dibromoethane	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
1,2-Dichlorobenzene	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
1,2-Dichloroethane	BRL	1.0		ug/L	131169	1	06/22/2010 09:57	NK
1,2-Dichloropropane	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
1,3-Dichlorobenzene	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
1,4-Dichlorobenzene	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
2-Butanone	BRL	50		ug/L	131169	1	06/22/2010 09:57	NK
2-Hexanone	BRL	10		ug/L	131169	1	06/22/2010 09:57	NK
4-Methyl-2-pentanone	BRL	10		ug/L	131169	1	06/22/2010 09:57	NK
Acetone	BRL	50		ug/L	131169	1	06/22/2010 09:57	NK
Benzene	BRL	1.0		ug/L	131169	1	06/22/2010 09:57	NK
Bromodichloromethane	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
Bromoform	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
Bromomethane	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
Carbon disulfide	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
Carbon tetrachloride	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
Chlorobenzene	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
Chloroethane	BRL	10		ug/L	131169	1	06/22/2010 09:57	NK
Chloroform	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
Chloromethane	BRL	10		ug/L	131169	1	06/22/2010 09:57	NK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
Cyclohexane	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
Dibromochloromethane	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
Dichlorodifluoromethane	BRL	10		ug/L	131169	1	06/22/2010 09:57	NK
Ethylbenzene	BRL	1.0		ug/L	131169	1	06/22/2010 09:57	NK
Freon-113	BRL	10		ug/L	131169	1	06/22/2010 09:57	NK
Isopropylbenzene	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
m,p-Xylene	BRL	1.0		ug/L	131169	1	06/22/2010 09:57	NK
Methyl acetate	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
Methyl tert-butyl ether	2.1	1.0		ug/L	131169	1	06/22/2010 09:57	NK
Methylcyclohexane	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
Methylene chloride	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
o-Xylene	BRL	1.0		ug/L	131169	1	06/22/2010 09:57	NK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 22-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	FMW 15061510
Project:	Fashion Care	**Collection Date:**	6/15/2010 4:25:00 PM
Lab ID:	1006D68-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
Tetrachloroethene	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
Toluene	BRL	1.0		ug/L	131169	1	06/22/2010 09:57	NK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
Trichloroethene	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
Trichlorofluoromethane	BRL	5.0		ug/L	131169	1	06/22/2010 09:57	NK
Vinyl chloride	6.1	2.0		ug/L	131169	1	06/22/2010 09:57	NK
Surr: 4-Bromofluorobenzene	94.1	60.1-127		%REC	131169	1	06/22/2010 09:57	NK
Surr: Dibromofluoromethane	117	79.6-126		%REC	131169	1	06/22/2010 09:57	NK
Surr: Toluene-d8	93.3	78-116		%REC	131169	1	06/22/2010 09:57	NK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 22-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	FMW 16061510
Project:	Fashion Care	**Collection Date:**	6/15/2010 4:45:00 PM
Lab ID:	1006D68-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
1,1-Dichloroethane	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
1,1-Dichloroethene	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
1,2-Dibromoethane	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
1,2-Dichloroethane	BRL	1.0		ug/L	131169	1	06/22/2010 09:42	GK
1,2-Dichloropropane	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
2-Butanone	BRL	50		ug/L	131169	1	06/22/2010 09:42	GK
2-Hexanone	BRL	10		ug/L	131169	1	06/22/2010 09:42	GK
4-Methyl-2-pentanone	BRL	10		ug/L	131169	1	06/22/2010 09:42	GK
Acetone	BRL	50		ug/L	131169	1	06/22/2010 09:42	GK
Benzene	BRL	1.0		ug/L	131169	1	06/22/2010 09:42	GK
Bromodichloromethane	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
Bromoform	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
Bromomethane	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
Carbon disulfide	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
Carbon tetrachloride	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
Chlorobenzene	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
Chloroethane	BRL	10		ug/L	131169	1	06/22/2010 09:42	GK
Chloroform	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
Chloromethane	BRL	10		ug/L	131169	1	06/22/2010 09:42	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
Cyclohexane	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
Dibromochloromethane	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
Dichlorodifluoromethane	BRL	10		ug/L	131169	1	06/22/2010 09:42	GK
Ethylbenzene	BRL	1.0		ug/L	131169	1	06/22/2010 09:42	GK
Freon-113	BRL	10		ug/L	131169	1	06/22/2010 09:42	GK
Isopropylbenzene	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
m,p-Xylene	BRL	1.0		ug/L	131169	1	06/22/2010 09:42	GK
Methyl acetate	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
Methyl tert-butyl ether	BRL	1.0		ug/L	131169	1	06/22/2010 09:42	GK
Methylcyclohexane	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
Methylene chloride	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
o-Xylene	BRL	1.0		ug/L	131169	1	06/22/2010 09:42	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 22-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	FMW 16061510
Project:	Fashion Care	**Collection Date:**	6/15/2010 4:45:00 PM
Lab ID:	1006D68-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
Tetrachloroethene	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
Toluene	BRL	1.0		ug/L	131169	1	06/22/2010 09:42	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
Trichloroethene	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
Trichlorofluoromethane	BRL	5.0		ug/L	131169	1	06/22/2010 09:42	GK
Vinyl chloride	BRL	2.0		ug/L	131169	1	06/22/2010 09:42	GK
Surr: 4-Bromofluorobenzene	97.8	60.1-127		%REC	131169	1	06/22/2010 09:42	GK
Surr: Dibromofluoromethane	100	79.6-126		%REC	131169	1	06/22/2010 09:42	GK
Surr: Toluene-d8	91.8	78-116		%REC	131169	1	06/22/2010 09:42	GK

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Winter Env Work Order Number 1006D608

Checklist completed by LD 6-15-10/6-16-10
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

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

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

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

Analytical Environmental Services, Inc

Date: 22-Jun-10

Client: Winter Environmental
Project: Fashion Care
Lab Order: 1006D68

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1006D68-001A	FMW 15061510	6/15/2010 4:25:00PM	Groundwater	TCL VOLATILE ORGANICS		06/20/2010	06/22/2010
1006D68-002A	FMW 16061510	6/15/2010 4:45:00PM	Groundwater	TCL VOLATILE ORGANICS		06/20/2010	06/22/2010

Analytical Environmental Services, Inc

Date: 22-Jun-10

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1006D68

ANALYTICAL QC SUMMARY REPORT

BatchID: 131169

Sample ID: **MB-131169** Client ID: Units: **ug/L** Prep Date: **06/20/2010** Run No: **174350**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **131169** Analysis Date: **06/20/2010** Seq No: **3625596**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Benzene	BRL	1.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	

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

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1006D68

ANALYTICAL QC SUMMARY REPORT

BatchID: 131169

Sample ID: **MB-131169** Client ID: Units: **ug/L** Prep Date: **06/20/2010** Run No: **174350**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **131169** Analysis Date: **06/20/2010** Seq No: **3625596**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	1.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	1.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	1.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	1.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	48.31	0	50	0	96.6	60.1	127	0	0	0	
Surr: Dibromofluoromethane	55.27	0	50	0	111	79.6	126	0	0	0	
Surr: Toluene-d8	48.26	0	50	0	96.5	78	116	0	0	0	

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1006D68

ANALYTICAL QC SUMMARY REPORT

BatchID: 131169

Sample ID: **LCS-131169** Client ID: Units: **ug/L** Prep Date: **06/20/2010** Run No: **174350**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **131169** Analysis Date: **06/20/2010** Seq No: **3625594**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	52.95	5.0	50	0	106	61.4	146	0	0	0	
Benzene	49.08	1.0	50	0	98.2	72.8	131	0	0	0	
Chlorobenzene	52.43	5.0	50	0	105	76	123	0	0	0	
Toluene	49.58	1.0	50	0	99.2	74.7	128	0	0	0	
Trichloroethene	47.74	5.0	50	0	95.5	74.4	130	0	0	0	
Surr: 4-Bromofluorobenzene	52.42	0	50	0	105	60.1	127	0	0	0	
Surr: Dibromofluoromethane	55.27	0	50	0	111	79.6	126	0	0	0	
Surr: Toluene-d8	50.72	0	50	0	101	78	116	0	0	0	

Sample ID: **1006G50-002AMS** Client ID: Units: **ug/L** Prep Date: **06/20/2010** Run No: **174350**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **131169** Analysis Date: **06/20/2010** Seq No: **3625600**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	691.7	50	500	0	138	48.8	172	0	0	0	
Benzene	948.3	10	500	393.1	111	64.5	143	0	0	0	
Chlorobenzene	577.3	50	500	0	115	74.5	129	0	0	0	
Toluene	636.3	10	500	92.40	109	62	145	0	0	0	
Trichloroethene	549.4	50	500	0	110	70.3	140	0	0	0	
Surr: 4-Bromofluorobenzene	501.8	0	500	0	100	60.1	127	0	0	0	
Surr: Dibromofluoromethane	530.6	0	500	0	106	79.6	126	0	0	0	
Surr: Toluene-d8	479.1	0	500	0	95.8	78	116	0	0	0	

Sample ID: **1006G50-002AMSD** Client ID: Units: **ug/L** Prep Date: **06/20/2010** Run No: **174350**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **131169** Analysis Date: **06/20/2010** Seq No: **3625603**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	691.2	50	500	0	138	48.8	172	691.7	0.072	21.6	
Benzene	940.0	10	500	393.1	109	64.5	143	948.3	0.879	18.3	

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

Analytical Environmental Services, Inc

Date: 22-Jun-10

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1006D68

ANALYTICAL QC SUMMARY REPORT

BatchID: 131169

Sample ID: **1006G50-002AMSD** Client ID: Units: **ug/L** Prep Date: **06/20/2010** Run No: **174350**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **131169** Analysis Date: **06/20/2010** Seq No: **3625603**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	567.3	50	500	0	113	74.5	129	577.3	1.75	19.2	
Toluene	621.7	10	500	92.40	106	62	145	636.3	2.32	21.2	
Trichloroethene	559.5	50	500	0	112	70.3	140	549.4	1.82	20.3	
Surr: 4-Bromofluorobenzene	503.2	0	500	0	101	60.1	127	501.8	0	0	
Surr: Dibromofluoromethane	545.1	0	500	0	109	79.6	126	530.6	0	0	
Surr: Toluene-d8	473.0	0	500	0	94.6	78	116	479.1	0	0	

Qualifiers:

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

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 01, 2011

Leonard Diprima
Winter Environmental
3350 Green Pointe Parkway, Suite 200
Norcross GA 30092

TEL: (404) 965-2323
FAX: (404) 223-6251

RE: Fashion Care Stream

Dear Leonard Diprima: Order No: 1110H79

Analytical Environmental Services, Inc. received 6 samples on 10/22/2011 12:03:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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

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

Chantelle Kanhai
Project Manager

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

CHAIN OF CUSTODY

Work Order: 1110H79

Date: 10/22/11 Page: 1 of 1

COMPANY: **Winter Environmental**

ADDRESS: **3350 Green Pointe Parkway Norcross GA 30092**

PHONE: **(404) 965-3348**

FAX: **404-223-6251**

SAMPLED BY: **V Owens**

SIGNATURE:

ANALYSIS REQUESTED: TCL VOCs

PRESERVATION (See Codes)

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See Below)	TCL VOCs	REMARKS	No # of Containers
1	FC-102111-SW1	10/21/11	14:40	√		SW	●	GA surface water det limits	2
2	FC-102111-SW2	10/21/11	14:20	√		SW	●	GA surface water det limits	2
3	FC-102111-SW3	10/21/11	14:10	√		SW	●	GA surface water det limits	2
4	FC-102211-SW1	10/22/11	11:15	√		SW	●	GA surface water det limits	2
5	FC-102211-SW2	10/22/11	11:05	√		SW	●	GA surface water det limits	2
6	FC-102211-SW3	10/22/11	10:50	√		SW	●	GA surface water det limits	2
7									
8									
9									
10									
11									
12									
13									
14									12

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1 V Owens	10-22-11 12:03	1 [illegible]	10/22/11 12:03
2		2	
3		3	

PROJECT INFORMATION

PROJECT NAME: **Fashion Care Stream**

PROJECT: **Fashion Care**

SITE ADDRESS: **2211 Savoy Drive, Chamblee, GA**

SEND REPORT TO: **LDiprima@winter-environmental.com**

INVOICE TO: **Winter Environmental** (IF DIFFERENT FORM ABOVE)

QUOTE #: _____ PO#: _____

RECEIPT

Total # of Containers

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:
TCL VOCs at low reporting limits

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

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

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

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102111-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/21/2011 2:40:00 PM
Lab ID:	1110H79-001	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	**SW8260B**				**(SW5030B)**			
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 16:45	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
2-Butanone	BRL	10		ug/L	153446	1	10/27/2011 16:45	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/27/2011 16:45	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/27/2011 16:45	JT
Acetone	21	20		ug/L	153446	1	10/27/2011 16:45	JT
Benzene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/27/2011 16:45	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/27/2011 16:45	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 16:45	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/27/2011 16:45	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/27/2011 16:45	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 16:45	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/27/2011 16:45	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102111-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/21/2011 2:40:00 PM
Lab ID:	1110H79-001	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Toluene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 16:45	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/27/2011 16:45	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/27/2011 16:45	JT
Surr: 4-Bromofluorobenzene	88.2	64.7-130		%REC	153446	1	10/27/2011 16:45	JT
Surr: Dibromofluoromethane	92	80.7-129		%REC	153446	1	10/27/2011 16:45	JT
Surr: Toluene-d8	92.6	71.1-120		%REC	153446	1	10/27/2011 16:45	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102111-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/21/2011 2:20:00 PM
Lab ID:	1110H79-002	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 17:42	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
2-Butanone	BRL	10		ug/L	153446	1	10/27/2011 17:42	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/27/2011 17:42	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/27/2011 17:42	JT
Acetone	22	20		ug/L	153446	1	10/27/2011 17:42	JT
Benzene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/27/2011 17:42	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/27/2011 17:42	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 17:42	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/27/2011 17:42	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/27/2011 17:42	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 17:42	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/27/2011 17:42	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102111-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/21/2011 2:20:00 PM
Lab ID:	1110H79-002	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Toluene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 17:42	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/27/2011 17:42	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/27/2011 17:42	JT
Surr: 4-Bromofluorobenzene	87.8	64.7-130		%REC	153446	1	10/27/2011 17:42	JT
Surr: Dibromofluoromethane	89.2	80.7-129		%REC	153446	1	10/27/2011 17:42	JT
Surr: Toluene-d8	95	71.1-120		%REC	153446	1	10/27/2011 17:42	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102111- SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/21/2011 2:10:00 PM
Lab ID:	1110H79-003	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 18:11	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
2-Butanone	BRL	10		ug/L	153446	1	10/27/2011 18:11	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/27/2011 18:11	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/27/2011 18:11	JT
Acetone	23	20		ug/L	153446	1	10/27/2011 18:11	JT
Benzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/27/2011 18:11	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/27/2011 18:11	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 18:11	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/27/2011 18:11	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/27/2011 18:11	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 18:11	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/27/2011 18:11	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102111- SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/21/2011 2:10:00 PM
Lab ID:	1110H79-003	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Toluene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 18:11	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/27/2011 18:11	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/27/2011 18:11	JT
Surr: 4-Bromofluorobenzene	88.3	64.7-130		%REC	153446	1	10/27/2011 18:11	JT
Surr: Dibromofluoromethane	91.9	80.7-129		%REC	153446	1	10/27/2011 18:11	JT
Surr: Toluene-d8	95.8	71.1-120		%REC	153446	1	10/27/2011 18:11	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102211-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/22/2011 11:15:00 AM
Lab ID:	1110H79-004	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 18:39	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
2-Butanone	BRL	10		ug/L	153446	1	10/27/2011 18:39	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/27/2011 18:39	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/27/2011 18:39	JT
Acetone	34	20		ug/L	153446	1	10/27/2011 18:39	JT
Benzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/27/2011 18:39	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/27/2011 18:39	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 18:39	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/27/2011 18:39	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/27/2011 18:39	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 18:39	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/27/2011 18:39	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102211-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/22/2011 11:15:00 AM
Lab ID:	1110H79-004	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Toluene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 18:39	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/27/2011 18:39	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/27/2011 18:39	JT
Surr: 4-Bromofluorobenzene	86.4	64.7-130		%REC	153446	1	10/27/2011 18:39	JT
Surr: Dibromofluoromethane	91.5	80.7-129		%REC	153446	1	10/27/2011 18:39	JT
Surr: Toluene-d8	93	71.1-120		%REC	153446	1	10/27/2011 18:39	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102211-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/22/2011 11:05:00 AM
Lab ID:	1110H79-005	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 19:08	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
2-Butanone	BRL	10		ug/L	153446	1	10/27/2011 19:08	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/27/2011 19:08	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/27/2011 19:08	JT
Acetone	37	20		ug/L	153446	1	10/27/2011 19:08	JT
Benzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/27/2011 19:08	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/27/2011 19:08	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 19:08	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/27/2011 19:08	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/27/2011 19:08	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 19:08	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/27/2011 19:08	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102211-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/22/2011 11:05:00 AM
Lab ID:	1110H79-005	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Toluene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 19:08	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/27/2011 19:08	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/27/2011 19:08	JT
Surr: 4-Bromofluorobenzene	90.1	64.7-130		%REC	153446	1	10/27/2011 19:08	JT
Surr: Dibromofluoromethane	92.5	80.7-129		%REC	153446	1	10/27/2011 19:08	JT
Surr: Toluene-d8	95	71.1-120		%REC	153446	1	10/27/2011 19:08	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102211-SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/22/2011 10:50:00 AM
Lab ID:	1110H79-006	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 19:36	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
2-Butanone	BRL	10		ug/L	153446	1	10/27/2011 19:36	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/27/2011 19:36	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/27/2011 19:36	JT
Acetone	31	20		ug/L	153446	1	10/27/2011 19:36	JT
Benzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/27/2011 19:36	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/27/2011 19:36	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 19:36	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/27/2011 19:36	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/27/2011 19:36	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 19:36	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/27/2011 19:36	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102211-SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/22/2011 10:50:00 AM
Lab ID:	1110H79-006	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Toluene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 19:36	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/27/2011 19:36	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/27/2011 19:36	JT
Surr: 4-Bromofluorobenzene	85.7	64.7-130		%REC	153446	1	10/27/2011 19:36	JT
Surr: Dibromofluoromethane	91.7	80.7-129		%REC	153446	1	10/27/2011 19:36	JT
Surr: Toluene-d8	91.6	71.1-120		%REC	153446	1	10/27/2011 19:36	JT

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Winter Work Order Number 1110H79

Checklist completed by M. Cobler 10/22/11
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

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

Cooler #1 3.2 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110H79

ANALYTICAL QC SUMMARY REPORT

BatchID: 153446

Sample ID: **MB-153446** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208224**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4353493**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	2.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	1.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	10	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	20	0	0	0	0	0	0	0	0	
Benzene	BRL	1.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	1.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	1.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	2.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
Chloroform	BRL	1.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	1.0	0	0	0	0	0	0	0	0	

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110H79

ANALYTICAL QC SUMMARY REPORT

BatchID: 153446

Sample ID: **MB-153446** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208224**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4353493**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	1.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	1.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	2.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	5.0	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	1.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	2.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	1.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	2.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	1.0	0	0	0	0	0	0	0	0	
Styrene	BRL	1.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	1.0	0	0	0	0	0	0	0	0	
Toluene	BRL	1.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	2.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	2.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	1.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	1.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	43.11	0	50	0	86.2	64.7	130	0	0	0	
Surr: Dibromofluoromethane	52.96	0	50	0	106	80.7	129	0	0	0	
Surr: Toluene-d8	50.42	0	50	0	101	71.1	120	0	0	0	

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110H79

ANALYTICAL QC SUMMARY REPORT

BatchID: 153446

Sample ID: **LCS-153446** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208272**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4354556**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	64.13	2.0	50	0	128	60	140	0	0	0	
Benzene	52.09	1.0	50	0	104	70	130	0	0	0	
Chlorobenzene	51.16	1.0	50	0	102	70	130	0	0	0	
Toluene	52.16	1.0	50	0	104	70	130	0	0	0	
Trichloroethene	50.11	1.0	50	0	100	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	42.46	0	50	0	84.9	64.7	130	0	0	0	
Surr: Dibromofluoromethane	50.18	0	50	0	100	80.7	129	0	0	0	
Surr: Toluene-d8	48.85	0	50	0	97.7	71.1	120	0	0	0	

Sample ID: **1110G81-008AMS** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208224**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4353519**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	68.08	2.0	50	0	136	46.2	183	0	0	0	
Benzene	56.76	1.0	50	0	114	62.2	143	0	0	0	
Chlorobenzene	55.00	1.0	50	0	110	72.2	137	0	0	0	
Toluene	59.24	1.0	50	0	118	57.8	149	0	0	0	
Trichloroethene	54.08	1.0	50	0	108	70.5	149	0	0	0	
Surr: 4-Bromofluorobenzene	45.33	0	50	0	90.7	64.7	130	0	0	0	
Surr: Dibromofluoromethane	53.40	0	50	0	107	80.7	129	0	0	0	
Surr: Toluene-d8	52.66	0	50	0	105	71.1	120	0	0	0	

Sample ID: **1110G81-008AMSD** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208224**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4353520**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	66.76	2.0	50	0	134	46.2	183	68.08	1.96	20	
Benzene	54.97	1.0	50	0	110	62.2	143	56.76	3.2	20	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110H79

ANALYTICAL QC SUMMARY REPORT

BatchID: 153446

Sample ID: **1110G81-008AMSD** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208224**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4353520**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	53.74	1.0	50	0	107	72.2	137	55.00	2.32	20	
Toluene	56.33	1.0	50	0	113	57.8	149	59.24	5.04	20	
Trichloroethene	52.93	1.0	50	0	106	70.5	149	54.08	2.15	20	
Surr: 4-Bromofluorobenzene	45.22	0	50	0	90.4	64.7	130	45.33	0	0	
Surr: Dibromofluoromethane	52.18	0	50	0	104	80.7	129	53.40	0	0	
Surr: Toluene-d8	52.55	0	50	0	105	71.1	120	52.66	0	0	

Qualifiers:

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

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

November 01, 2011

Leonard Diprima
Winter Environmental
3350 Green Pointe Parkway, Suite 200
Norcross GA 30092

TEL: (404) 965-2323
FAX: (404) 223-6251

RE: Fashion Care Stream

Dear Leonard Diprima: Order No: 1110I45

Analytical Environmental Services, Inc. received 6 samples on 10/24/2011 4:22:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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

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

Chantelle Kanhai
Project Manager

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

CHAIN OF CUSTODY

Work Order: 1110I45

Date: **10/24/11** Page: 1 of 1

COMPANY: **Winter Environmental**

ADDRESS: **3350 Green Pointe Parkway Norcross GA 30092**

PHONE: **(404) 965-3348**

FAX: **404-223-6251**

SAMPLED BY: **V Owens**

SIGNATURE:

ANALYSIS REQUESTED: TCL VOCs

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See Below)	TCL VOCs (PRESERVATION (See Codes))	REMARKS	No # of Containers
1	FC-102311-SW1	10/23/11	14:00	√		SW	●	GA surface water det limits	2
2	FC-102311-SW2	10/23/11	13:45	√		SW	●	GA surface water det limits	2
3	FC-102311-SW3	10/23/11	13:30	√		SW	●	GA surface water det limits	2
4	FC-102411-SW1	10/24/11	15:15	√		SW	●	GA surface water det limits	2
5	FC-102411-SW2	10/24/11	15:45	√		SW	●	GA surface water det limits	2
6	FC-102411-SW3	10/24/11	15:55	√		SW	●	GA surface water det limits	2
7									
8									
9									
10									
11									
12									
13									
14									12

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1 V Owens	10/24/11 16:22	1 [illegible]	10/24/11 16:22
2		2	
3		3	

SPECIAL INSTRUCTIONS/COMMENTS:
TCL VOCs at low reporting limits

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

PROJECT INFORMATION
PROJECT NAME: **Fashion Care Stream**
PROJECT: **Fashion Care**
SITE ADDRESS: **2211 Savoy Drive, Chamblee, GA**
SEND REPORT TO: **LDiprima@winter-environmental.com**
INVOICE TO: **Winter Environmental**
(IF DIFFERENT FORM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time Request
● Standard 5 Business Days
○ 2 Business Day Rush
○ Next Business Day Rush
○ Same Day Rush (auth req.)
○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

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

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102311-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/23/2011 2:00:00 PM
Lab ID:	1110I45-001	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/28/2011 17:01	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
2-Butanone	BRL	10		ug/L	153446	1	10/28/2011 17:01	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/28/2011 17:01	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/28/2011 17:01	JT
Acetone	46	20		ug/L	153446	1	10/28/2011 17:01	JT
Benzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/28/2011 17:01	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/28/2011 17:01	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/28/2011 17:01	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/28/2011 17:01	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/28/2011 17:01	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/28/2011 17:01	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/28/2011 17:01	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102311-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/23/2011 2:00:00 PM
Lab ID:	1110I45-001	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Styrene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Toluene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/28/2011 17:01	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/28/2011 17:01	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/28/2011 17:01	JT
Surr: 4-Bromofluorobenzene	89.2	64.7-130		%REC	153446	1	10/28/2011 17:01	JT
Surr: Dibromofluoromethane	94	80.7-129		%REC	153446	1	10/28/2011 17:01	JT
Surr: Toluene-d8	95.7	71.1-120		%REC	153446	1	10/28/2011 17:01	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102311-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/23/2011 1:45:00 PM
Lab ID:	1110I45-002	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/28/2011 17:29	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
2-Butanone	BRL	10		ug/L	153446	1	10/28/2011 17:29	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/28/2011 17:29	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/28/2011 17:29	JT
Acetone	40	20		ug/L	153446	1	10/28/2011 17:29	JT
Benzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/28/2011 17:29	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/28/2011 17:29	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/28/2011 17:29	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/28/2011 17:29	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/28/2011 17:29	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/28/2011 17:29	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/28/2011 17:29	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102311-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/23/2011 1:45:00 PM
Lab ID:	1110I45-002	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Toluene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/28/2011 17:29	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/28/2011 17:29	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/28/2011 17:29	JT
Surr: 4-Bromofluorobenzene	88.2	64.7-130		%REC	153446	1	10/28/2011 17:29	JT
Surr: Dibromofluoromethane	94	80.7-129		%REC	153446	1	10/28/2011 17:29	JT
Surr: Toluene-d8	93.8	71.1-120		%REC	153446	1	10/28/2011 17:29	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102311-SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/23/2011 1:30:00 PM
Lab ID:	1110I45-003	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 22:52	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
2-Butanone	BRL	10		ug/L	153446	1	10/27/2011 22:52	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/27/2011 22:52	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/27/2011 22:52	JT
Acetone	51	20		ug/L	153446	1	10/27/2011 22:52	JT
Benzene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/27/2011 22:52	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/27/2011 22:52	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 22:52	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/27/2011 22:52	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/27/2011 22:52	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 22:52	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/27/2011 22:52	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102311-SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/23/2011 1:30:00 PM
Lab ID:	1110I45-003	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Toluene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 22:52	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/27/2011 22:52	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/27/2011 22:52	JT
Surr: 4-Bromofluorobenzene	83.3	64.7-130		%REC	153446	1	10/27/2011 22:52	JT
Surr: Dibromofluoromethane	108	80.7-129		%REC	153446	1	10/27/2011 22:52	JT
Surr: Toluene-d8	101	71.1-120		%REC	153446	1	10/27/2011 22:52	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102411-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/24/2011 3:15:00 PM
Lab ID:	1110I45-004	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 23:16	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
2-Butanone	BRL	10		ug/L	153446	1	10/27/2011 23:16	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/27/2011 23:16	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/27/2011 23:16	JT
Acetone	190	20		ug/L	153446	1	10/27/2011 23:16	JT
Benzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/27/2011 23:16	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/27/2011 23:16	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 23:16	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/27/2011 23:16	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/27/2011 23:16	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 23:16	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/27/2011 23:16	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102411-SW1
Project Name:	Fashion Care Stream	**Collection Date:**	10/24/2011 3:15:00 PM
Lab ID:	1110I45-004	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Toluene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 23:16	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/27/2011 23:16	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/27/2011 23:16	JT
Surr: 4-Bromofluorobenzene	83.1	64.7-130		%REC	153446	1	10/27/2011 23:16	JT
Surr: Dibromofluoromethane	110	80.7-129		%REC	153446	1	10/27/2011 23:16	JT
Surr: Toluene-d8	98.5	71.1-120		%REC	153446	1	10/27/2011 23:16	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102411-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/24/2011 3:45:00 PM
Lab ID:	1110I45-005	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 23:41	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
2-Butanone	BRL	10		ug/L	153446	1	10/27/2011 23:41	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/27/2011 23:41	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/27/2011 23:41	JT
Acetone	180	20		ug/L	153446	1	10/27/2011 23:41	JT
Benzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/27/2011 23:41	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/27/2011 23:41	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 23:41	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/27/2011 23:41	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/27/2011 23:41	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/27/2011 23:41	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/27/2011 23:41	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102411-SW2
Project Name:	Fashion Care Stream	**Collection Date:**	10/24/2011 3:45:00 PM
Lab ID:	1110I45-005	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Toluene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/27/2011 23:41	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/27/2011 23:41	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/27/2011 23:41	JT
Surr: 4-Bromofluorobenzene	83.3	64.7-130		%REC	153446	1	10/27/2011 23:41	JT
Surr: Dibromofluoromethane	108	80.7-129		%REC	153446	1	10/27/2011 23:41	JT
Surr: Toluene-d8	98.7	71.1-120		%REC	153446	1	10/27/2011 23:41	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102411-SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/24/2011 3:55:00 PM
Lab ID:	1110I45-006	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,1-Dichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,1-Dichloroethene	BRL	2.0		ug/L	153446	1	10/28/2011 00:05	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,2-Dibromoethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,2-Dichloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,2-Dichloropropane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
2-Butanone	BRL	10		ug/L	153446	1	10/28/2011 00:05	JT
2-Hexanone	BRL	10		ug/L	153446	1	10/28/2011 00:05	JT
4-Methyl-2-pentanone	BRL	10		ug/L	153446	1	10/28/2011 00:05	JT
Acetone	200	20		ug/L	153446	1	10/28/2011 00:05	JT
Benzene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Bromodichloromethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Bromoform	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Bromomethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Carbon disulfide	BRL	5.0		ug/L	153446	1	10/28/2011 00:05	JT
Carbon tetrachloride	BRL	2.0		ug/L	153446	1	10/28/2011 00:05	JT
Chlorobenzene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Chloroethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Chloroform	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Chloromethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
cis-1,3-Dichloropropene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Cyclohexane	BRL	2.0		ug/L	153446	1	10/28/2011 00:05	JT
Dibromochloromethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Dichlorodifluoromethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Ethylbenzene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Freon-113	BRL	5.0		ug/L	153446	1	10/28/2011 00:05	JT
Isopropylbenzene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
m,p-Xylene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Methyl acetate	BRL	2.0		ug/L	153446	1	10/28/2011 00:05	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Methylcyclohexane	BRL	2.0		ug/L	153446	1	10/28/2011 00:05	JT
Methylene chloride	BRL	5.0		ug/L	153446	1	10/28/2011 00:05	JT
o-Xylene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client:	Winter Environmental	**Client Sample ID:**	FC-102411-SW3
Project Name:	Fashion Care Stream	**Collection Date:**	10/24/2011 3:55:00 PM
Lab ID:	1110I45-006	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Styrene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Tetrachloroethene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Toluene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	153446	1	10/28/2011 00:05	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	153446	1	10/28/2011 00:05	JT
Trichloroethene	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Trichlorofluoromethane	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Vinyl chloride	BRL	1.0		ug/L	153446	1	10/28/2011 00:05	JT
Surr: 4-Bromofluorobenzene	84.3	64.7-130		%REC	153446	1	10/28/2011 00:05	JT
Surr: Dibromofluoromethane	111	80.7-129		%REC	153446	1	10/28/2011 00:05	JT
Surr: Toluene-d8	99	71.1-120		%REC	153446	1	10/28/2011 00:05	JT

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Winter Work Order Number 1110145

Checklist completed by [signature] 10/24/11
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

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

Cooler #1 3.2°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Analytical Environmental Services, Inc

Date: 1-Nov-11

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110I45

ANALYTICAL QC SUMMARY REPORT

BatchID: 153446

Sample ID: **MB-153446** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208224**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4353493**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	2.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	1.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	10	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	20	0	0	0	0	0	0	0	0	
Benzene	BRL	1.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	1.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	1.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	2.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
Chloroform	BRL	1.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	1.0	0	0	0	0	0	0	0	0	

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110I45

ANALYTICAL QC SUMMARY REPORT

BatchID: 153446

Sample ID: **MB-153446** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208224**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4353493**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	1.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	1.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	2.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	5.0	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	1.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	2.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	1.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	2.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	1.0	0	0	0	0	0	0	0	0	
Styrene	BRL	1.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	1.0	0	0	0	0	0	0	0	0	
Toluene	BRL	1.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	2.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	2.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	1.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	1.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	43.11	0	50	0	86.2	64.7	130	0	0	0	
Surr: Dibromofluoromethane	52.96	0	50	0	106	80.7	129	0	0	0	
Surr: Toluene-d8	50.42	0	50	0	101	71.1	120	0	0	0	

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110I45

ANALYTICAL QC SUMMARY REPORT

BatchID: 153446

Sample ID: **LCS-153446** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208272**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4354556**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	64.13	2.0	50	0	128	60	140	0	0	0	
Benzene	52.09	1.0	50	0	104	70	130	0	0	0	
Chlorobenzene	51.16	1.0	50	0	102	70	130	0	0	0	
Toluene	52.16	1.0	50	0	104	70	130	0	0	0	
Trichloroethene	50.11	1.0	50	0	100	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	42.46	0	50	0	84.9	64.7	130	0	0	0	
Surr: Dibromofluoromethane	50.18	0	50	0	100	80.7	129	0	0	0	
Surr: Toluene-d8	48.85	0	50	0	97.7	71.1	120	0	0	0	

Sample ID: **1110G81-008AMS** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208224**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4353519**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	68.08	2.0	50	0	136	46.2	183	0	0	0	
Benzene	56.76	1.0	50	0	114	62.2	143	0	0	0	
Chlorobenzene	55.00	1.0	50	0	110	72.2	137	0	0	0	
Toluene	59.24	1.0	50	0	118	57.8	149	0	0	0	
Trichloroethene	54.08	1.0	50	0	108	70.5	149	0	0	0	
Surr: 4-Bromofluorobenzene	45.33	0	50	0	90.7	64.7	130	0	0	0	
Surr: Dibromofluoromethane	53.40	0	50	0	107	80.7	129	0	0	0	
Surr: Toluene-d8	52.66	0	50	0	105	71.1	120	0	0	0	

Sample ID: **1110G81-008AMSD** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208224**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4353520**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	66.76	2.0	50	0	134	46.2	183	68.08	1.96	20	
Benzene	54.97	1.0	50	0	110	62.2	143	56.76	3.2	20	

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care Stream
Workorder: 1110I45

ANALYTICAL QC SUMMARY REPORT

BatchID: 153446

Sample ID: **1110G81-008AMSD** Client ID: Units: **ug/L** Prep Date: **10/27/2011** Run No: **208224**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **153446** Analysis Date: **10/27/2011** Seq No: **4353520**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	53.74	1.0	50	0	107	72.2	137	55.00	2.32	20	
Toluene	56.33	1.0	50	0	113	57.8	149	59.24	5.04	20	
Trichloroethene	52.93	1.0	50	0	106	70.5	149	54.08	2.15	20	
Surr: 4-Bromofluorobenzene	45.22	0	50	0	90.4	64.7	130	45.33	0	0	
Surr: Dibromofluoromethane	52.18	0	50	0	104	80.7	129	53.40	0	0	
Surr: Toluene-d8	52.55	0	50	0	105	71.1	120	52.66	0	0	

Qualifiers:

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

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

May 06, 2014

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2055 Sugarloaf Circle
Duluth GA 30094

TEL: (770) 622-6766
FAX:

RE: Fashion Care

Dear Len Diprima: Order No: 1404S61

Analytical Environmental Services, Inc. received 14 samples on 4/30/2014 11:58:00 AM for the analyses presented in following report.

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

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

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

Chantelle Kanhai
Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3080 Presidential Drive, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

AES

CHAIN OF CUSTODY

1404561 Work Order: ~~1404561~~ ~~5095~~

Date: 4-30-14 Page 1 of 1 5/1/14

COMPANY: Woodard & Curran

ADDRESS: 2055 Sugarloaf Circle Suite 175 Duluth GA 30097

PHONE: 770-622-6766

FAX: 770-396-0095

SAMPLED BY: Joe King

SIGNATURE: Joe DK

ANALYSIS REQUESTED: VOC TCL

PRESERVATION (See codes): H+I

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOC TCL	REMARKS	No # of Containers
1	SW-1	4-28-14	1118	X		SW	X		2
2	SW-2	4-28-14	1138	X		SW	X		2
3	SW-3	4-28-14	1150	X		SW	X		2
4	FMW-1	4-28-14	1345	X		GW	X		2
5	FMW-4	4-29-14	0944	X		GW	X		2
6	FMW-5	4-29-14	1038	X		GW	X		2
7	FMW-6	4-29-14	1118	X		GW	X		2
8	FMW-9	4-29-14	1215	X		GW	X		2
9	FMW-13	4-29-14	1324	X		GW	X		2
10	FMW-14	4-29-14	1435	X		GW	X		2
11	FMW-16	4-30-14	0835	X		GW	X		2
12	FMW-17	4-30-14	0928	X		GW	X		2
13	FMW-15	4-30-14	1022	X		GW	X		2
14	DUP-1	4-28-14		X		GW	X		2

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Joe DK	4-30-14 / 1153	1: Latoya R	4/30/14 11:58a
2:		2:	
3:		3:	

PROJECT INFORMATION

PROJECT NAME: Fashion Care

PROJECT #: 226203.00

SITE ADDRESS:

SEND REPORT TO: Len Diprima

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 28

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

STATE PROGRAM (if any):

E-mail? Y / N; Fax? Y / N

DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER

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

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

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

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	SW-1
Project Name:	Fashion Care	**Collection Date:**	4/28/2014 11:18:00 AM
Lab ID:	1404S61-001	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 18:33	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 18:33	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/03/2014 18:33	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 18:33	GK
Benzene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 18:33	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 18:33	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 18:33	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 18:33	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	SW-1
Project Name:	Fashion Care	**Collection Date:**	4/28/2014 11:18:00 AM
Lab ID:	1404S61-001	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Tetrachloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Toluene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 18:33	GK
Vinyl chloride	BRL	2.0		ug/L	190517	1	05/03/2014 18:33	GK
Surr: 4-Bromofluorobenzene	90.2	66.2-120		%REC	190517	1	05/03/2014 18:33	GK
Surr: Dibromofluoromethane	95.4	79.5-121		%REC	190517	1	05/03/2014 18:33	GK
Surr: Toluene-d8	98.9	77-117		%REC	190517	1	05/03/2014 18:33	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	SW-2
Project Name:	Fashion Care	**Collection Date:**	4/28/2014 11:38:00 AM
Lab ID:	1404S61-002	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 19:00	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 19:00	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/03/2014 19:00	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 19:00	GK
Benzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 19:00	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 19:00	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 19:00	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 19:00	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	SW-2
Project Name:	Fashion Care	**Collection Date:**	4/28/2014 11:38:00 AM
Lab ID:	1404S61-002	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Tetrachloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Toluene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:00	GK
Vinyl chloride	BRL	2.0		ug/L	190517	1	05/03/2014 19:00	GK
Surr: 4-Bromofluorobenzene	91.2	66.2-120		%REC	190517	1	05/03/2014 19:00	GK
Surr: Dibromofluoromethane	95.2	79.5-121		%REC	190517	1	05/03/2014 19:00	GK
Surr: Toluene-d8	96.7	77-117		%REC	190517	1	05/03/2014 19:00	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	SW-3
Project Name:	Fashion Care	**Collection Date:**	4/28/2014 11:50:00 AM
Lab ID:	1404S61-003	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 19:26	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 19:26	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/03/2014 19:26	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 19:26	GK
Benzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 19:26	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 19:26	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 19:26	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 19:26	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	SW-3
Project Name:	Fashion Care	**Collection Date:**	4/28/2014 11:50:00 AM
Lab ID:	1404S61-003	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Tetrachloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Toluene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:26	GK
Vinyl chloride	BRL	2.0		ug/L	190517	1	05/03/2014 19:26	GK
Surr: 4-Bromofluorobenzene	90.5	66.2-120		%REC	190517	1	05/03/2014 19:26	GK
Surr: Dibromofluoromethane	92.7	79.5-121		%REC	190517	1	05/03/2014 19:26	GK
Surr: Toluene-d8	98.4	77-117		%REC	190517	1	05/03/2014 19:26	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-1
Project Name:	Fashion Care	**Collection Date:**	4/28/2014 1:45:00 PM
Lab ID:	1404S61-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 19:53	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 19:53	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/03/2014 19:53	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 19:53	GK
Benzene	240	100		ug/L	190517	20	05/05/2014 13:58	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 19:53	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 19:53	GK
cis-1,2-Dichloroethene	49	5.0		ug/L	190517	1	05/03/2014 19:53	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Cyclohexane	61	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 19:53	GK
Ethylbenzene	250	100		ug/L	190517	20	05/05/2014 13:58	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 19:53	GK
Isopropylbenzene	14	5.0		ug/L	190517	1	05/03/2014 19:53	GK
m,p-Xylene	660	100		ug/L	190517	20	05/05/2014 13:58	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Methyl tert-butyl ether	1400	100		ug/L	190517	20	05/05/2014 13:58	GK
Methylcyclohexane	49	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
o-Xylene	240	100		ug/L	190517	20	05/05/2014 13:58	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-1
Project Name:	Fashion Care	**Collection Date:**	4/28/2014 1:45:00 PM
Lab ID:	1404S61-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Tetrachloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Toluene	770	100		ug/L	190517	20	05/05/2014 13:58	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 19:53	GK
Vinyl chloride	22	2.0		ug/L	190517	1	05/03/2014 19:53	GK
Surr: 4-Bromofluorobenzene	96.2	66.2-120		%REC	190517	1	05/03/2014 19:53	GK
Surr: 4-Bromofluorobenzene	90.4	66.2-120		%REC	190517	20	05/05/2014 13:58	GK
Surr: Dibromofluoromethane	92.5	79.5-121		%REC	190517	1	05/03/2014 19:53	GK
Surr: Dibromofluoromethane	91	79.5-121		%REC	190517	20	05/05/2014 13:58	GK
Surr: Toluene-d8	98.8	77-117		%REC	190517	1	05/03/2014 19:53	GK
Surr: Toluene-d8	96.3	77-117		%REC	190517	20	05/05/2014 13:58	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-4
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 9:44:00 AM
Lab ID:	1404S61-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,1,2-Trichloroethane	14	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,1-Dichloroethene	27	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,2-Dichlorobenzene	5.2	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 20:20	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 20:20	GK
4-Methyl-2-pentanone	12	10		ug/L	190517	1	05/03/2014 20:20	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 20:20	GK
Benzene	3100	250		ug/L	190517	50	05/05/2014 12:37	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 20:20	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 20:20	GK
cis-1,2-Dichloroethene	40000	2500		ug/L	190517	500	05/05/2014 14:52	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Cyclohexane	64	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 20:20	GK
Ethylbenzene	530	250		ug/L	190517	50	05/05/2014 12:37	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 20:20	GK
Isopropylbenzene	41	5.0		ug/L	190517	1	05/03/2014 20:20	GK
m,p-Xylene	230	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Methyl tert-butyl ether	700	250		ug/L	190517	50	05/05/2014 12:37	GK
Methylcyclohexane	43	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
o-Xylene	220	100		ug/L	190517	50	05/05/2014 12:37	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-4
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 9:44:00 AM
Lab ID:	1404S61-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Tetrachloroethene	4900	250		ug/L	190517	50	05/05/2014 12:37	GK
Toluene	600	250		ug/L	190517	50	05/05/2014 12:37	GK
trans-1,2-Dichloroethene	320	250		ug/L	190517	50	05/05/2014 12:37	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Trichloroethene	1800	250		ug/L	190517	50	05/05/2014 12:37	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 20:20	GK
Vinyl chloride	1600	100		ug/L	190517	50	05/05/2014 12:37	GK
Surr: 4-Bromofluorobenzene	89.5	66.2-120		%REC	190517	500	05/05/2014 14:52	GK
Surr: 4-Bromofluorobenzene	91.9	66.2-120		%REC	190517	50	05/05/2014 12:37	GK
Surr: 4-Bromofluorobenzene	94.5	66.2-120		%REC	190517	1	05/03/2014 20:20	GK
Surr: Dibromofluoromethane	91	79.5-121		%REC	190517	500	05/05/2014 14:52	GK
Surr: Dibromofluoromethane	93.3	79.5-121		%REC	190517	50	05/05/2014 12:37	GK
Surr: Dibromofluoromethane	92.9	79.5-121		%REC	190517	1	05/03/2014 20:20	GK
Surr: Toluene-d8	95.4	77-117		%REC	190517	500	05/05/2014 14:52	GK
Surr: Toluene-d8	95.9	77-117		%REC	190517	50	05/05/2014 12:37	GK
Surr: Toluene-d8	98.2	77-117		%REC	190517	1	05/03/2014 20:20	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-5
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 10:38:00 AM
Lab ID:	1404S61-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
2-Butanone	BRL	50		ug/L	190517	1	05/05/2014 15:18	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/05/2014 15:18	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/05/2014 15:18	GK
Acetone	BRL	50		ug/L	190517	1	05/05/2014 15:18	GK
Benzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Chloroethane	BRL	10		ug/L	190517	1	05/05/2014 15:18	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Chloromethane	BRL	10		ug/L	190517	1	05/05/2014 15:18	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/05/2014 15:18	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Freon-113	BRL	10		ug/L	190517	1	05/05/2014 15:18	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-5
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 10:38:00 AM
Lab ID:	1404S61-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Tetrachloroethene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Toluene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:18	GK
Vinyl chloride	BRL	2.0		ug/L	190517	1	05/05/2014 15:18	GK
Surr: 4-Bromofluorobenzene	90.7	66.2-120		%REC	190517	1	05/05/2014 15:18	GK
Surr: Dibromofluoromethane	92.4	79.5-121		%REC	190517	1	05/05/2014 15:18	GK
Surr: Toluene-d8	96.6	77-117		%REC	190517	1	05/05/2014 15:18	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-6
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 11:18:00 AM
Lab ID:	1404S61-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 21:13	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 21:13	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/03/2014 21:13	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 21:13	GK
Benzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 21:13	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 21:13	GK
cis-1,2-Dichloroethene	920	250		ug/L	190517	50	05/05/2014 13:04	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 21:13	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 21:13	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Methyl tert-butyl ether	52	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-6
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 11:18:00 AM
Lab ID:	1404S61-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Tetrachloroethene	3100	250		ug/L	190517	50	05/05/2014 13:04	GK
Toluene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
trans-1,2-Dichloroethene	16	5.0		ug/L	190517	1	05/03/2014 21:13	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Trichloroethene	260	250		ug/L	190517	50	05/05/2014 13:04	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:13	GK
Vinyl chloride	BRL	2.0		ug/L	190517	1	05/03/2014 21:13	GK
Surr: 4-Bromofluorobenzene	90.9	66.2-120		%REC	190517	50	05/05/2014 13:04	GK
Surr: 4-Bromofluorobenzene	90.7	66.2-120		%REC	190517	1	05/03/2014 21:13	GK
Surr: Dibromofluoromethane	95.6	79.5-121		%REC	190517	50	05/05/2014 13:04	GK
Surr: Dibromofluoromethane	96	79.5-121		%REC	190517	1	05/03/2014 21:13	GK
Surr: Toluene-d8	96.5	77-117		%REC	190517	50	05/05/2014 13:04	GK
Surr: Toluene-d8	98.5	77-117		%REC	190517	1	05/03/2014 21:13	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-9
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 12:15:00 PM
Lab ID:	1404S61-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 21:40	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 21:40	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/03/2014 21:40	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 21:40	GK
Benzene	35	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 21:40	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 21:40	GK
cis-1,2-Dichloroethene	820	250		ug/L	190517	50	05/05/2014 13:31	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 21:40	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 21:40	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Methyl tert-butyl ether	260	250		ug/L	190517	50	05/05/2014 13:31	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-9
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 12:15:00 PM
Lab ID:	1404S61-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Tetrachloroethene	2300	250		ug/L	190517	50	05/05/2014 13:31	GK
Toluene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
trans-1,2-Dichloroethene	14	5.0		ug/L	190517	1	05/03/2014 21:40	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Trichloroethene	250	250		ug/L	190517	50	05/05/2014 13:31	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 21:40	GK
Vinyl chloride	20	2.0		ug/L	190517	1	05/03/2014 21:40	GK
Surr: 4-Bromofluorobenzene	90.5	66.2-120		%REC	190517	50	05/05/2014 13:31	GK
Surr: 4-Bromofluorobenzene	91.2	66.2-120		%REC	190517	1	05/03/2014 21:40	GK
Surr: Dibromofluoromethane	91.9	79.5-121		%REC	190517	50	05/05/2014 13:31	GK
Surr: Dibromofluoromethane	95.5	79.5-121		%REC	190517	1	05/03/2014 21:40	GK
Surr: Toluene-d8	96.7	77-117		%REC	190517	50	05/05/2014 13:31	GK
Surr: Toluene-d8	99.2	77-117		%REC	190517	1	05/03/2014 21:40	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-13
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 1:24:00 PM
Lab ID:	1404S61-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
2-Butanone	BRL	50		ug/L	190517	1	05/05/2014 15:45	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/05/2014 15:45	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/05/2014 15:45	GK
Acetone	BRL	50		ug/L	190517	1	05/05/2014 15:45	GK
Benzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Chloroethane	BRL	10		ug/L	190517	1	05/05/2014 15:45	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Chloromethane	BRL	10		ug/L	190517	1	05/05/2014 15:45	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/05/2014 15:45	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Freon-113	BRL	10		ug/L	190517	1	05/05/2014 15:45	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-13
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 1:24:00 PM
Lab ID:	1404S61-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Tetrachloroethene	10	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Toluene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/05/2014 15:45	GK
Vinyl chloride	BRL	2.0		ug/L	190517	1	05/05/2014 15:45	GK
Surr: 4-Bromofluorobenzene	90.5	66.2-120		%REC	190517	1	05/05/2014 15:45	GK
Surr: Dibromofluoromethane	93.1	79.5-121		%REC	190517	1	05/05/2014 15:45	GK
Surr: Toluene-d8	95.5	77-117		%REC	190517	1	05/05/2014 15:45	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-14
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 2:35:00 PM
Lab ID:	1404S61-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 23:01	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 23:01	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/03/2014 23:01	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 23:01	GK
Benzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 23:01	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 23:01	GK
cis-1,2-Dichloroethene	7.1	5.0		ug/L	190517	1	05/03/2014 23:01	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 23:01	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 23:01	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-14
Project Name:	Fashion Care	**Collection Date:**	4/29/2014 2:35:00 PM
Lab ID:	1404S61-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Tetrachloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Toluene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:01	GK
Vinyl chloride	BRL	2.0		ug/L	190517	1	05/03/2014 23:01	GK
Surr: 4-Bromofluorobenzene	90.3	66.2-120		%REC	190517	1	05/03/2014 23:01	GK
Surr: Dibromofluoromethane	94.2	79.5-121		%REC	190517	1	05/03/2014 23:01	GK
Surr: Toluene-d8	98.2	77-117		%REC	190517	1	05/03/2014 23:01	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-16
Project Name:	Fashion Care	**Collection Date:**	4/30/2014 8:35:00 AM
Lab ID:	1404S61-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 22:34	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 22:34	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/03/2014 22:34	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 22:34	GK
Benzene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 22:34	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 22:34	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 22:34	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 22:34	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-16
Project Name:	Fashion Care	**Collection Date:**	4/30/2014 8:35:00 AM
Lab ID:	1404S61-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Tetrachloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Toluene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 22:34	GK
Vinyl chloride	BRL	2.0		ug/L	190517	1	05/03/2014 22:34	GK
Surr: 4-Bromofluorobenzene	89.3	66.2-120		%REC	190517	1	05/03/2014 22:34	GK
Surr: Dibromofluoromethane	93	79.5-121		%REC	190517	1	05/03/2014 22:34	GK
Surr: Toluene-d8	99.8	77-117		%REC	190517	1	05/03/2014 22:34	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-17
Project Name:	Fashion Care	**Collection Date:**	4/30/2014 9:28:00 AM
Lab ID:	1404S61-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 23:28	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 23:28	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/03/2014 23:28	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 23:28	GK
Benzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 23:28	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 23:28	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 23:28	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 23:28	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-17
Project Name:	Fashion Care	**Collection Date:**	4/30/2014 9:28:00 AM
Lab ID:	1404S61-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Tetrachloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Toluene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:28	GK
Vinyl chloride	BRL	2.0		ug/L	190517	1	05/03/2014 23:28	GK
Surr: 4-Bromofluorobenzene	92.4	66.2-120		%REC	190517	1	05/03/2014 23:28	GK
Surr: Dibromofluoromethane	93.8	79.5-121		%REC	190517	1	05/03/2014 23:28	GK
Surr: Toluene-d8	98.7	77-117		%REC	190517	1	05/03/2014 23:28	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-15
Project Name:	Fashion Care	**Collection Date:**	4/30/2014 10:22:00 AM
Lab ID:	1404S61-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
2-Butanone	BRL	50		ug/L	190517	1	05/03/2014 23:54	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/03/2014 23:54	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/03/2014 23:54	GK
Acetone	BRL	50		ug/L	190517	1	05/03/2014 23:54	GK
Benzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Chloroethane	BRL	10		ug/L	190517	1	05/03/2014 23:54	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Chloromethane	BRL	10		ug/L	190517	1	05/03/2014 23:54	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Cyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/03/2014 23:54	GK
Ethylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Freon-113	BRL	10		ug/L	190517	1	05/03/2014 23:54	GK
Isopropylbenzene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
m,p-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Methylcyclohexane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
o-Xylene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	FMW-15
Project Name:	Fashion Care	**Collection Date:**	4/30/2014 10:22:00 AM
Lab ID:	1404S61-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Tetrachloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Toluene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/03/2014 23:54	GK
Vinyl chloride	BRL	2.0		ug/L	190517	1	05/03/2014 23:54	GK
Surr: 4-Bromofluorobenzene	91.5	66.2-120		%REC	190517	1	05/03/2014 23:54	GK
Surr: Dibromofluoromethane	92.9	79.5-121		%REC	190517	1	05/03/2014 23:54	GK
Surr: Toluene-d8	97.4	77-117		%REC	190517	1	05/03/2014 23:54	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	DUP-1
Project Name:	Fashion Care	**Collection Date:**	4/28/2014
Lab ID:	1404S61-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,1-Dichloroethane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,1-Dichloroethene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,2-Dibromoethane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,2-Dichloroethane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,2-Dichloropropane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
2-Butanone	BRL	50		ug/L	190517	1	05/04/2014 00:21	GK
2-Hexanone	BRL	10		ug/L	190517	1	05/04/2014 00:21	GK
4-Methyl-2-pentanone	BRL	10		ug/L	190517	1	05/04/2014 00:21	GK
Acetone	BRL	50		ug/L	190517	1	05/04/2014 00:21	GK
Benzene	280	100		ug/L	190517	20	05/05/2014 14:25	GK
Bromodichloromethane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Bromoform	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Bromomethane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Carbon disulfide	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Carbon tetrachloride	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Chlorobenzene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Chloroethane	BRL	10		ug/L	190517	1	05/04/2014 00:21	GK
Chloroform	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Chloromethane	BRL	10		ug/L	190517	1	05/04/2014 00:21	GK
cis-1,2-Dichloroethene	46	5.0		ug/L	190517	1	05/04/2014 00:21	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Cyclohexane	70	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Dibromochloromethane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Dichlorodifluoromethane	BRL	10		ug/L	190517	1	05/04/2014 00:21	GK
Ethylbenzene	270	100		ug/L	190517	20	05/05/2014 14:25	GK
Freon-113	BRL	10		ug/L	190517	1	05/04/2014 00:21	GK
Isopropylbenzene	16	5.0		ug/L	190517	1	05/04/2014 00:21	GK
m,p-Xylene	700	100		ug/L	190517	20	05/05/2014 14:25	GK
Methyl acetate	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Methyl tert-butyl ether	1600	100		ug/L	190517	20	05/05/2014 14:25	GK
Methylcyclohexane	60	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Methylene chloride	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
o-Xylene	250	100		ug/L	190517	20	05/05/2014 14:25	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-May-14

Client:	Woodard & Curran	**Client Sample ID:**	DUP-1
Project Name:	Fashion Care	**Collection Date:**	4/28/2014
Lab ID:	1404S61-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Tetrachloroethene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Toluene	870	100		ug/L	190517	20	05/05/2014 14:25	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Trichloroethene	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Trichlorofluoromethane	BRL	5.0		ug/L	190517	1	05/04/2014 00:21	GK
Vinyl chloride	21	2.0		ug/L	190517	1	05/04/2014 00:21	GK
Surr: 4-Bromofluorobenzene	96.1	66.2-120		%REC	190517	1	05/04/2014 00:21	GK
Surr: 4-Bromofluorobenzene	92.5	66.2-120		%REC	190517	20	05/05/2014 14:25	GK
Surr: Dibromofluoromethane	92.1	79.5-121		%REC	190517	1	05/04/2014 00:21	GK
Surr: Dibromofluoromethane	91	79.5-121		%REC	190517	20	05/05/2014 14:25	GK
Surr: Toluene-d8	101	77-117		%REC	190517	1	05/04/2014 00:21	GK
Surr: Toluene-d8	97.5	77-117		%REC	190517	20	05/05/2014 14:25	GK

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Woodard + Curran Work Order Number 1405~~045~~ 4561 5/1/14

Checklist completed by [signature] 5/1/14
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

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

Cooler #1 3.2°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Client: Woodard & Curran
Project Name: Fashion Care
Workorder: 1404S61

ANALYTICAL QC SUMMARY REPORT

BatchID: **190517**

Sample ID: **MB-190517** Client ID: Units: **ug/L** Prep Date: **05/01/2014** Run No: **266685**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **190517** Analysis Date: **05/01/2014** Seq No: **5623899**

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

Qualifiers:

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

Client: Woodard & Curran
Project Name: Fashion Care
Workorder: 1404S61

ANALYTICAL QC SUMMARY REPORT

BatchID: **190517**

Sample ID: **MB-190517** Client ID: Units: **ug/L** Prep Date: **05/01/2014** Run No: **266685**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **190517** Analysis Date: **05/01/2014** Seq No: **5623899**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	45.82	0	50.00		91.6	66.2	120				
Surr: Dibromofluoromethane	45.97	0	50.00		91.9	79.5	121				
Surr: Toluene-d8	48.84	0	50.00		97.7	77	117				

Qualifiers:

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

Client: Woodard & Curran
Project Name: Fashion Care
Workorder: 1404S61

ANALYTICAL QC SUMMARY REPORT

BatchID: 190517

Sample ID: **LCS-190517** Client ID: Units: **ug/L** Prep Date: **05/01/2014** Run No: **266685**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **190517** Analysis Date: **05/01/2014** Seq No: **5624176**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	45.33	5.0	50.00		90.7	63.1	140				
Benzene	46.75	5.0	50.00		93.5	74.2	129				
Chlorobenzene	47.89	5.0	50.00		95.8	70	129				
Toluene	48.55	5.0	50.00		97.1	74.2	129				
Trichloroethene	49.72	5.0	50.00		99.4	71.2	135				
Surr: 4-Bromofluorobenzene	47.96	0	50.00		95.9	66.2	120				
Surr: Dibromofluoromethane	48.62	0	50.00		97.2	79.5	121				
Surr: Toluene-d8	50.10	0	50.00		100	77	117				

Sample ID: **1405115-006AMS** Client ID: Units: **ug/L** Prep Date: **05/01/2014** Run No: **266782**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **190517** Analysis Date: **05/02/2014** Seq No: **5624435**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	39.16	5.0	50.00		78.3	60.2	159				
Benzene	47.65	5.0	50.00		95.3	70.2	138				
Chlorobenzene	48.50	5.0	50.00		97.0	70.1	133				
Toluene	49.88	5.0	50.00		99.8	70	139				
Trichloroethene	51.16	5.0	50.00		102	70.1	144				
Surr: 4-Bromofluorobenzene	47.03	0	50.00		94.1	66.2	120				
Surr: Dibromofluoromethane	48.65	0	50.00		97.3	79.5	121				
Surr: Toluene-d8	49.53	0	50.00		99.1	77	117				

Sample ID: **1405115-006AMSD** Client ID: Units: **ug/L** Prep Date: **05/01/2014** Run No: **266782**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **190517** Analysis Date: **05/02/2014** Seq No: **5624547**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	39.86	5.0	50.00		79.7	60.2	159	39.16	1.77	19.2	
Benzene	48.59	5.0	50.00		97.2	70.2	138	47.65	1.95	20	

Qualifiers:

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

Client: Woodard & Curran
Project Name: Fashion Care
Workorder: 1404S61

ANALYTICAL QC SUMMARY REPORT

BatchID: **190517**

Sample ID: **1405115-006AMSD** Client ID: Units: **ug/L** Prep Date: **05/01/2014** Run No: **266782**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **190517** Analysis Date: **05/02/2014** Seq No: **5624547**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	49.09	5.0	50.00		98.2	70.1	133	48.50	1.21	20	
Toluene	50.51	5.0	50.00		101	70	139	49.88	1.26	20	
Trichloroethene	52.12	5.0	50.00		104	70.1	144	51.16	1.86	20	
Surr: 4-Bromofluorobenzene	47.26	0	50.00		94.5	66.2	120	47.03	0	0	
Surr: Dibromofluoromethane	49.31	0	50.00		98.6	79.5	121	48.65	0	0	
Surr: Toluene-d8	49.10	0	50.00		98.2	77	117	49.53	0	0	

Qualifiers:

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

Analytical Report 311894

for

Winter Environmental

Project Manager: Len Diprima

Fashion Care

08096

15-SEP-08

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Texas certification numbers:
Houston, TX T104704215 - Odessa/Midland, TX T104704215-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

15-SEP-08

Project Manager: **Len Diprima**
Winter Environmental
3350 Green Pointe Parkway
Norcross, GA 30092

Reference: XENCO Report No: **311894**
Fashion Care
Project Address: GA

Len Diprima:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 311894. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 311894 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

David C. Fuller
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
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Sample Cross Reference 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FMW-4	S	Sep-04-08 10:15	0 - 2 ft	311894-001
FMW-4	S	Sep-04-08 10:25	4 - 8 ft	311894-002
FMW-4	S	Sep-04-08 10:35	11 - 13 ft	311894-003
SB-27	S	Sep-04-08 11:30	0 - 2 ft	311894-004
FMW-6	W	Sep-05-08 13:05		311894-005
FMW-5	W	Sep-05-08 14:45		311894-006
DUP30108	W	Sep-05-08 00:00		311894-007
TBLK30108	W	Sep-05-08 00:00		311894-008

Certificate of Analytical Results 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-4**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **311894-001**	Date Collected: **Sep-04-08 10:15**	Date Received: **Sep-05-08 16:05**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5035

Date Analyzed: Sep-10-08 15:29 Analyst: 4124 Date Prep: Sep-10-08 06:39 Tech: 4124

Seq Number: 733833

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	2.7	0.43	ug/kg	U	1
1,1-Dichloroethene	75-35-4	U	2.7	0.62	ug/kg	U	1
Acetone	67-64-1	39	27	3.6	ug/kg		1
Benzene	71-43-2	1.6	0.53	0.27	ug/kg		1
cis-1,2-Dichloroethene	156-59-2	41	2.7	0.35	ug/kg		1
Cyclohexane	110-82-7	U	2.7	0.50	ug/kg	U	1
Ethylbenzene	100-41-4	U	0.53	0.30	ug/kg	U	1
Isopropylbenzene	98-82-8	U	2.7	0.40	ug/kg	U	1
Tetrachloroethene	127-18-4	8.7	2.7	0.55	ug/kg		1
Toluene	108-88-3	U	0.53	0.31	ug/kg	U	1
trans-1,2-Dichloroethene	156-60-5	U	2.7	0.41	ug/kg	U	1
Trichloroethene	79-01-6	7.5	2.7	0.37	ug/kg		1
Vinyl chloride	75-01-4	8.0	2.7	1.1	ug/kg		1
m,p-Xylenes	179601-23-1	U	1.1	0.64	ug/kg	U	1
o-Xylene	95-47-6	U	0.53	0.38	ug/kg	U	1
Xylenes, Total	1330-20-7	U			ug/kg	U	1

Project: Xenco-Atlanta Master Project

Version: 1.017

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-4**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **311894-002**	Date Collected: **Sep-04-08 10:25**	Date Received: **Sep-05-08 16:05**
Sample Depth: **4 - 8 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5035

Date Analyzed: Sep-10-08 15:59 Analyst: 4124 Date Prep: Sep-10-08 06:39 Tech: 4124

Seq Number: 733833

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	3.5	0.56	ug/kg	U	1
1,1-Dichloroethene	75-35-4	U	3.5	0.80	ug/kg	U	1
Acetone	67-64-1	U	35	4.8	ug/kg	U	1
Benzene	71-43-2	8.3	0.69	0.36	ug/kg		1
cis-1,2-Dichloroethene	156-59-2	120	3.5	0.46	ug/kg		1
Cyclohexane	110-82-7	U	3.5	0.65	ug/kg	U	1
Ethylbenzene	100-41-4	1.0	0.69	0.39	ug/kg		1
Isopropylbenzene	98-82-8	U	3.5	0.53	ug/kg	U	1
Tetrachloroethene	127-18-4	U	3.5	0.72	ug/kg	U	1
Toluene	108-88-3	5.6	0.69	0.41	ug/kg		1
trans-1,2-Dichloroethene	156-60-5	U	3.5	0.54	ug/kg	U	1
Trichloroethene	79-01-6	U	3.5	0.49	ug/kg	U	1
Vinyl chloride	75-01-4	16	3.5	1.4	ug/kg		1
m,p-Xylenes	179601-23-1	2.2	1.4	0.84	ug/kg		1
o-Xylene	95-47-6	1.7	0.69	0.50	ug/kg		1
Xylenes, Total	1330-20-7	3.9			ug/kg		1

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Sample Id: **FMW-4**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **311894-003**	Date Collected: **Sep-04-08 10:35**	Date Received: **Sep-05-08 16:05**
Sample Depth: **11 - 13 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-11-08 22:07 Analyst: 4124 Date Prep: Sep-11-08 16:33 Tech: 4124

Seq Number: 734040

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	150	24	ug/kg	U	30
1,1-Dichloroethene	75-35-4	U	150	35	ug/kg	U	30
Acetone	67-64-1	U	1500	210	ug/kg	U	30
Benzene	71-43-2	750	30	15	ug/kg		30
cis-1,2-Dichloroethene	156-59-2	1700	150	20	ug/kg		30
Cyclohexane	110-82-7	U	150	28	ug/kg	U	30
Ethylbenzene	100-41-4	330	30	17	ug/kg		30
Isopropylbenzene	98-82-8	U	150	23	ug/kg	U	30
Tetrachloroethene	127-18-4	50	150	31	ug/kg	J	30
Toluene	108-88-3	1500	30	18	ug/kg		30
trans-1,2-Dichloroethene	156-60-5	U	150	23	ug/kg	U	30
Trichloroethene	79-01-6	U	150	21	ug/kg	U	30
Vinyl chloride	75-01-4	96	150	61	ug/kg	J	30
m,p-Xylenes	179601-23-1	730	60	36	ug/kg		30
o-Xylene	95-47-6	420	30	22	ug/kg		30
Xylenes, Total	1330-20-7	1150			ug/kg		30

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Sample Id: **SB-27**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **311894-004**	Date Collected: **Sep-04-08 11:30**	Date Received: **Sep-05-08 16:05**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5035

Date Analyzed: Sep-11-08 13:05 Analyst: 4124 Date Prep: Sep-11-08 07:05 Tech: 4124

Seq Number: 734010

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	2.6	0.42	ug/kg	U	1
1,1-Dichloroethene	75-35-4	U	2.6	0.61	ug/kg	U	1
Acetone	67-64-1	170	26	3.6	ug/kg		1
Benzene	71-43-2	U	0.52	0.27	ug/kg	U	1
cis-1,2-Dichloroethene	156-59-2	68	130	18	ug/kg	J	27
Cyclohexane	110-82-7	U	2.6	0.50	ug/kg	U	1
Ethylbenzene	100-41-4	U	0.52	0.30	ug/kg	U	1
Isopropylbenzene	98-82-8	U	2.6	0.40	ug/kg	U	1
Tetrachloroethene	127-18-4	18000	1300	280	ug/kg	D	268
Toluene	108-88-3	2.6	0.52	0.31	ug/kg		1
trans-1,2-Dichloroethene	156-60-5	U	2.6	0.41	ug/kg	U	1
Trichloroethene	79-01-6	120	130	19	ug/kg	J	27
Vinyl chloride	75-01-4	U	2.6	1.1	ug/kg	U	1
m,p-Xylenes	179601-23-1	U	1.0	0.63	ug/kg	U	1
o-Xylene	95-47-6	U	0.52	0.38	ug/kg	U	1
Xylenes, Total	1330-20-7	U			ug/kg		1

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Fashion Care

Sample Id: **FMW-6** Matrix: **WATER** % Moisture:
Lab Sample Id: **311894-005** Date Collected: **Sep-05-08 13:05** Date Received: **Sep-05-08 16:05**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-10-08 17:00 Analyst: 4154 Date Prep: Sep-05-08 17:00 Tech: 4154
Seq Number: 733806

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		1.60	2.00	1.50	mg/L	J	1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-08-08 08:45 Analyst: 4099 Date Prep: Tech: 4099
Seq Number: 733491

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		U	10	5.3	mg/L	U	1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 14:35 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	U	0.100	0.017	mg/L	U	1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-11-08 13:15 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 733952

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	4.8	1.0	0.062	mg/L		1
Sulfate	14808-79-8	3.1	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-09-08 15:12 Analyst: RCH Date Prep: Sep-08-08 11:15 Tech: ABA
Seq Number: 733658

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.017	0.010	0.004	mg/L	B	1
Barium	7440-39-3	0.096	0.050	0.001	mg/L		1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	U	0.050	0.002	mg/L	U	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	0.004	0.010	0.003	mg/L	J	1
Sodium	7440-23-5	9.95	5.00	0.702	mg/L		1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-6** Matrix: **WATER** % Moisture:
Lab Sample Id: **311894-005** Date Collected: **Sep-05-08 13:05** Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-11-08 17:05 Analyst: NTR Date Prep: Sep-11-08 08:28 Tech: 4148
Seq Number: 734038

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	1.8	1.0	0.16	ug/L		1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	180	1.0	0.21	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	260	2.0	0.18	ug/L		1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

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Fashion Care

Sample Id: **FMW-6** Matrix: **WATER** % Moisture:
Lab Sample Id: **311894-005** Date Collected: **Sep-05-08 13:05** Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-11-08 17:05 Analyst: NTR Date Prep: Sep-11-08 08:28 Tech: 4148
Seq Number: 734038

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	1100	50	8.0	ug/L	D	50
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	3.6	1.0	0.21	ug/L		1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	56	1.0	0.19	ug/L		1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L		1

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Sample Id: **FMW-5** Matrix: **WATER** % Moisture:
Lab Sample Id: **311894-006** Date Collected: **Sep-05-08 14:45** Date Received: **Sep-05-08 16:05**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-10-08 17:00 Analyst: 4154 Date Prep: Sep-05-08 17:00 Tech: 4154
Seq Number: 733806

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		1.97	2.00	1.50	mg/L	J	1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-08-08 08:45 Analyst: 4099 Date Prep: Tech: 4099
Seq Number: 733491

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		9.5	10	5.3	mg/L	J	1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 14:42 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	4.91	0.100	0.017	mg/L		1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-11-08 14:25 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 733952

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	5.9	1.0	0.062	mg/L		1
Sulfate	14808-79-8	2.8	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-09-08 15:14 Analyst: RCH Date Prep: Sep-08-08 11:15 Tech: ABA
Seq Number: 733658

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.007	0.010	0.004	mg/L	JB	1
Barium	7440-39-3	0.065	0.050	0.001	mg/L		1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	U	0.050	0.002	mg/L	U	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	10.4	5.00	0.702	mg/L		1

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Version: 1.017

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-5**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **311894-006**	Date Collected: **Sep-05-08 14:45**	Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-11-08 18:38 Analyst: NTR Date Prep: Sep-11-08 08:28 Tech: 4148

Seq Number: 734038

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	1.8	1.0	0.16	ug/L		1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	100	1.0	0.21	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	22	2.0	0.18	ug/L		1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.017

Certificate of Analytical Results 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-5**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **311894-006**	Date Collected: **Sep-05-08 14:45**	Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-11-08 18:38 Analyst: NTR Date Prep: Sep-11-08 08:28 Tech: 4148

Seq Number: 734038

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	4700	100	16	ug/L	D	100
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	100	1.0	0.19	ug/L		1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L		1

Project: Xenco-Atlanta Master Project

Version: 1.017

Certificate of Analytical Results 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **DUP30108**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **311894-007**	Date Collected: **Sep-05-08 00:00**	Date Received: **Sep-05-08 16:05**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-10-08 17:00 Analyst: 4154 Date Prep: Sep-05-08 17:00 Tech: 4154
Seq Number: 733806

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		1.70	2.00	1.50	mg/L	J	1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-08-08 08:45 Analyst: 4099 Date Prep: Tech: 4099
Seq Number: 733491

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		U	10	5.3	mg/L	U	1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 14:48 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	U	0.100	0.017	mg/L	U	1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-11-08 14:42 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 733952

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	4.8	1.0	0.062	mg/L		1
Sulfate	14808-79-8	3.0	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-09-08 15:15 Analyst: RCH Date Prep: Sep-08-08 11:15 Tech: ABA
Seq Number: 733658

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.004	mg/L	U	1
Barium	7440-39-3	0.097	0.050	0.001	mg/L		1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	U	0.050	0.002	mg/L	U	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	9.95	5.00	0.702	mg/L		1

Project: Xenco-Atlanta Master Project

Version: 1.017

Certificate of Analytical Results 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **DUP30108**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **311894-007**	Date Collected: **Sep-05-08 00:00**	Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-12-08 14:07 Analyst: 4124 Date Prep: Sep-12-08 06:30 Tech: 4124

Seq Number: 734083

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	2.8	1.0	0.18	ug/L		1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	1.6	1.0	0.16	ug/L		1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	180	1.0	0.21	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	260	2.0	0.18	ug/L		1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.017

Certificate of Analytical Results 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **DUP30108**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **311894-007**	Date Collected: **Sep-05-08 00:00**	Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-12-08 14:07 Analyst: 4124 Date Prep: Sep-12-08 06:30 Tech: 4124

Seq Number: 734083

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	2200	100	16	ug/L	D	100
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	3.9	1.0	0.21	ug/L		1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	50	1.0	0.19	ug/L		1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L		1

Project: Xenco-Atlanta Master Project

Version: 1.017

Certificate of Analytical Results 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **TBLK30108**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **311894-008**	Date Collected: **Sep-05-08 00:00**	Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-11-08 16:36 Analyst: NTR Date Prep: Sep-11-08 08:28 Tech: 4148

Seq Number: 734038

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	U	1.0	0.16	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.0	0.21	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.0	0.18	ug/L	U	1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.017

Certificate of Analytical Results 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **TBLK30108** Matrix: **WATER** % Moisture:
Lab Sample Id: **311894-008** Date Collected: **Sep-05-08 00:00** Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-11-08 16:36 Analyst: NTR Date Prep: Sep-11-08 08:28 Tech: 4148
Seq Number: 734038

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.0	0.16	ug/L	U	1
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	U	1.0	0.19	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.017

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

* Outside XENCO'S scope of NELAC Accreditation

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 733833 **Sample:** 311694-002 S / MS **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	46	50	92	53-135	
4-Bromofluorobenzene	61	50	122	53-175	
Toluene-D8	55	50	110	56-126	

Lab Batch #: 733833 **Sample:** 311694-002 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47	50	94	53-135	
4-Bromofluorobenzene	58	50	116	53-175	
Toluene-D8	56	50	112	56-126	

Lab Batch #: 733833 **Sample:** 311894-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	56	50	112	53-135	
4-Bromofluorobenzene	56	50	112	53-175	
Toluene-D8	51	50	102	56-126	

Lab Batch #: 733833 **Sample:** 311894-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54	50	108	53-135	
4-Bromofluorobenzene	53	50	106	53-175	
Toluene-D8	50	50	100	56-126	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 733833 **Sample:** 515472-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48	50	96	53-135	
4-Bromofluorobenzene	50	50	100	53-175	
Toluene-D8	50	50	100	56-126	

Lab Batch #: 733833 **Sample:** 515472-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	53-135	
4-Bromofluorobenzene	50	50	100	53-175	
Toluene-D8	51	50	102	56-126	

Lab Batch #: 734010 **Sample:** 311830-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47	50	94	53-135	
4-Bromofluorobenzene	57	50	114	53-175	
Toluene-D8	53	50	106	56-126	

Lab Batch #: 734010 **Sample:** 311830-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51	50	102	53-135	
4-Bromofluorobenzene	60	50	120	53-175	
Toluene-D8	53	50	106	56-126	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 734010 **Sample:** 311894-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58	50	116	53-135	
4-Bromofluorobenzene	56	50	112	53-175	
Toluene-D8	52	50	104	56-126	

Lab Batch #: 734010 **Sample:** 515560-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47	50	94	53-135	
4-Bromofluorobenzene	50	50	100	53-175	
Toluene-D8	51	50	102	56-126	

Lab Batch #: 734010 **Sample:** 515560-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52	50	104	53-135	
4-Bromofluorobenzene	52	50	104	53-175	
Toluene-D8	51	50	102	56-126	

Lab Batch #: 734040 **Sample:** 311894-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51	50	102	53-135	
4-Bromofluorobenzene	51	50	102	53-175	
Toluene-D8	50	50	100	56-126	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 734040 **Sample:** 311894-004 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51	50	102	53-135	
4-Bromofluorobenzene	50	50	100	53-175	
Toluene-D8	51	50	102	56-126	

Lab Batch #: 734040 **Sample:** 515580-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47	50	94	53-135	
4-Bromofluorobenzene	50	50	100	53-175	
Toluene-D8	50	50	100	56-126	

Lab Batch #: 734040 **Sample:** 515580-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	53-135	
4-Bromofluorobenzene	51	50	102	53-175	
Toluene-D8	50	50	100	56-126	

Lab Batch #: 734089 **Sample:** 311894-004 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	53-135	
4-Bromofluorobenzene	50	50	100	53-175	
Toluene-D8	49	50	98	56-126	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 734089 **Sample:** 515609-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	44	50	88	53-135	
4-Bromofluorobenzene	51	50	102	53-175	
Toluene-D8	50	50	100	56-126	

Lab Batch #: 734089 **Sample:** 515609-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	53-135	
4-Bromofluorobenzene	50	50	100	53-175	
Toluene-D8	49	50	98	56-126	

Lab Batch #: 734038 **Sample:** 311894-005 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51.91	50.00	104	53-159	
4-Bromofluorobenzene	59.53	50.00	119	30-186	
Toluene-D8	37.65	50.00	75	70-130	

Lab Batch #: 734038 **Sample:** 311894-005 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52.66	50.00	105	53-159	
4-Bromofluorobenzene	56.63	50.00	113	30-186	
Toluene-D8	38.19	50.00	76	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 734038 **Sample:** 311894-006 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49.56	50.00	99	53-159	
4-Bromofluorobenzene	56.50	50.00	113	30-186	
Toluene-D8	38.45	50.00	77	70-130	

Lab Batch #: 734038 **Sample:** 311894-008 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54.96	50.00	110	53-159	
4-Bromofluorobenzene	57.33	50.00	115	30-186	
Toluene-D8	39.28	50.00	79	70-130	

Lab Batch #: 734038 **Sample:** 311895-005 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	56.72	50.00	113	53-159	
4-Bromofluorobenzene	50.73	50.00	101	30-186	
Toluene-D8	33.27	50.00	67	70-130	**

Lab Batch #: 734038 **Sample:** 311895-005 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	55.00	50.00	110	53-159	
4-Bromofluorobenzene	50.46	50.00	101	30-186	
Toluene-D8	33.93	50.00	68	70-130	**

** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 734038 **Sample:** 515578-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54.84	50.00	110	53-159	
4-Bromofluorobenzene	47.93	50.00	96	30-186	
Toluene-D8	53.66	50.00	107	70-130	

Lab Batch #: 734038 **Sample:** 515578-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	56.64	50.00	113	53-159	
4-Bromofluorobenzene	54.56	50.00	109	30-186	
Toluene-D8	63.62	50.00	127	70-130	

Lab Batch #: 734083 **Sample:** 311894-006 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53.07	50.00	106	53-159	
4-Bromofluorobenzene	50.31	50.00	101	30-186	
Toluene-D8	49.61	50.00	99	77-124	

Lab Batch #: 734083 **Sample:** 311894-007 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53.32	50.00	107	53-159	
4-Bromofluorobenzene	50.29	50.00	101	30-186	
Toluene-D8	49.09	50.00	98	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 734083 **Sample:** 311894-007 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52.74	50.00	105	53-159	
4-Bromofluorobenzene	50.29	50.00	101	30-186	
Toluene-D8	50.72	50.00	101	77-124	

Lab Batch #: 734083 **Sample:** 311895-006 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47.10	50.00	94	53-159	
4-Bromofluorobenzene	50.32	50.00	101	30-186	
Toluene-D8	49.43	50.00	99	77-124	

Lab Batch #: 734083 **Sample:** 311895-006 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47.81	50.00	96	53-159	
4-Bromofluorobenzene	50.59	50.00	101	30-186	
Toluene-D8	49.49	50.00	99	77-124	

Lab Batch #: 734083 **Sample:** 515602-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	43.58	50.00	87	53-159	
4-Bromofluorobenzene	50.86	50.00	102	30-186	
Toluene-D8	50.33	50.00	101	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 734083 **Sample:** 515602-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50.23	50.00	100	53-159	
4-Bromofluorobenzene	50.13	50.00	100	30-186	
Toluene-D8	49.40	50.00	99	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 311894 **Project ID:** 08096

Lab Batch #: 733833 **Sample:** 515472-1-BKS **Matrix:** Solid
Date Analyzed: 09/10/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4124
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<5.0	50	56	112	35-170	
Benzene	<1.0	50	49	98	52-144	
Toluene	<1.0	50	50	100	51-137	
Trichloroethene	<5.0	50	50	100	50-150	

Lab Batch #: 734010 **Sample:** 515560-1-BKS **Matrix:** Solid
Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** 4124
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<5.0	50	60	120	35-170	
Benzene	<1.0	50	51	102	52-144	
Toluene	<1.0	50	52	104	51-137	
Trichloroethene	<5.0	50	49	98	50-150	

Lab Batch #: 734040 **Sample:** 515580-1-BKS **Matrix:** Solid
Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** 4124
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<250	2500	2400	96	35-170	
Benzene	<50	2500	2400	96	52-144	
Toluene	<50	2500	2400	96	51-137	
Trichloroethene	<250	2500	2200	88	50-150	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 311894 **Project ID:** 08096

Lab Batch #: 734089 **Sample:** 515609-1-BKS **Matrix:** Solid
Date Analyzed: 09/12/2008 **Date Prepared:** 09/12/2008 **Analyst:** 4124
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<250	2500	2200	88	35-170	
Benzene	<50	2500	2200	88	52-144	
Toluene	<50	2500	2100	84	51-137	
Trichloroethene	<250	2500	2100	84	50-150	

Lab Batch #: 734038 **Sample:** 515578-1-BKS **Matrix:** Water
Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** NTR
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

TCL VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.0	50	51	102	70-130	
Benzene	<1.0	50	50	100	80-120	
Chlorobenzene	<1.0	50	45	90	80-120	
Toluene	<1.0	50	51	102	75-120	
Trichloroethene	<1.0	50	47	94	70-125	

Lab Batch #: 734083 **Sample:** 515602-1-BKS **Matrix:** Water
Date Analyzed: 09/12/2008 **Date Prepared:** 09/12/2008 **Analyst:** 4124
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

TCL VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.0	50	43	86	70-130	
Benzene	<1.0	50	44	88	80-120	
Chlorobenzene	<1.0	50	43	86	80-120	
Toluene	<1.0	50	43	86	75-120	
Trichloroethene	<1.0	50	41	82	70-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 311894 **Project ID:** 08096

Analyst: 4154 **Date Prepared:** 09/05/2008 **Date Analyzed:** 09/10/2008

Lab Batch ID: 733806 **Sample:** 515460-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BOD by SM5210B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	<2.00	200	198	99	200	199	100	1	70-120	20	

Analyst: 4099 **Date Prepared:** 09/08/2008 **Date Analyzed:** 09/08/2008

Lab Batch ID: 733491 **Sample:** 733491-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chemical Oxygen Demand by SM 5220D Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	<10	200	210	105	200	200	100	5	71-128	20	

Analyst: 4150 **Date Prepared:** 09/10/2008 **Date Analyzed:** 09/11/2008

Lab Batch ID: 733922 **Sample:** 515438-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	0.023	11.0	9.70	88	11	9.73	88	0	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 311894 **Project ID:** 08096

Analyst: SNL **Date Prepared:** 09/11/2008 **Date Analyzed:** 09/11/2008

Lab Batch ID: 733952 **Sample:** 733952-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by SW-846 9056 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<1.0	10	9.1	91	10	9.2	92	1	70-125	20	
Sulfate	<1.0	10	9.1	91	10	9.1	91	0	70-125	20	

Analyst: RCH **Date Prepared:** 09/08/2008 **Date Analyzed:** 09/09/2008

Lab Batch ID: 733658 **Sample:** 515260-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Metals, Total by SW846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.004	1.00	1.01	101	1	0.945	95	7	75-125	20	
Barium	<0.050	1.00	1.04	104	1	0.965	97	7	75-125	20	
Cadmium	<0.005	1.00	1.05	105	1	0.978	98	7	75-125	20	
Chromium	<0.050	1.00	1.06	106	1	0.988	99	7	75-125	20	
Copper	<0.050	1.00	1.05	105	1	0.980	98	7	75-125	20	
Lead	<0.010	1.00	1.04	104	1	0.967	97	7	75-125	20	
Selenium	<0.010	1.00	1.03	103	1	0.974	97	6	75-125	20	
Sodium	<5.00	9.00	11.0	122	9	10.0	111	10	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 311894 **Project ID:** 08096

Lab Batch ID: 733491 **QC- Sample ID:** 311607-001 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 09/08/2008 **Date Prepared:** 09/08/2008 **Analyst:** 4099
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chemical Oxygen Demand by SM 5220D Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	100	200	320	110	200	310	105	5	71-128	20	

Lab Batch ID: 733922 **QC- Sample ID:** 311894-005 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	11.0	9.93	90	11.0	10.6	96	6	75-125	20	

Lab Batch ID: 733952 **QC- Sample ID:** 311894-005 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** SNL
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by SW-846 9056 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	4.8	10	14	92	10	14	92	0	70-125	20	
Sulfate	3.1	10	12	89	10	12	89	0	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 311894 **Project ID:** 08096

Lab Batch ID: 733658 **QC- Sample ID:** 311892-002 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/09/2008 **Date Prepared:** 09/08/2008 **Analyst:** RCH

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Metals, Total by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.010	1.00	1.02	102	1.00	1.02	102	0	75-125	20	
Barium	0.014	1.00	1.05	104	1.00	1.04	103	1	75-125	20	
Cadmium	<0.005	1.00	1.05	105	1.00	1.04	104	1	75-125	20	
Chromium	0.078	1.00	1.12	104	1.00	1.13	105	1	75-125	20	
Copper	0.009	1.00	1.05	104	1.00	1.05	104	0	75-125	20	
Lead	0.004	1.00	1.03	103	1.00	1.02	102	1	75-125	20	
Selenium	<0.010	1.00	1.02	102	1.00	1.03	103	1	75-125	20	
Sodium	7.84	9.00	16.6	97	9.00	16.8	100	3	75-125	20	

Lab Batch ID: 733833 **QC- Sample ID:** 311694-002 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 09/10/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4124

Reporting Units: ug/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<2.9	52	46	88	43	37	86	2	35-170	20	
Benzene	<2.9	52	38	73	43	29	67	9	38-158	20	
Toluene	<2.9	52	35	67	43	26	60	11	50-150	20	
Trichloroethene	<2.9	52	31	60	43	24	56	7	50-150	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 311894 **Project ID:** 08096

Lab Batch ID: 734010 **QC- Sample ID:** 311830-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** 4124

Reporting Units: ug/kg

Select VOCs by SW-846 8260B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<3.8	44	58	132	43	46	107	21	35-170	20	F
Benzene	<0.77	44	47	107	43	38	88	19	38-158	20	
Toluene	<0.77	44	49	111	43	39	91	20	50-150	20	
Trichloroethene	<3.8	44	45	102	43	37	86	17	50-150	20	

Lab Batch ID: 734038 **QC- Sample ID:** 311895-005 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** NTR

Reporting Units: ug/L

TCL VOCs by SW-846 8260B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<1.0	50	54	108	50	52	104	4	70-130	20	
Benzene	<1.0	50	45	90	50	49	98	9	80-120	20	
Chlorobenzene	<1.0	50	46	92	50	48	96	4	80-120	20	
Toluene	<1.0	50	34	68	50	35	70	3	75-120	20	X
Trichloroethene	<1.0	50	47	94	50	48	96	2	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 311894 **Project ID:** 08096

Lab Batch ID: 734083 **QC- Sample ID:** 311895-006 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/12/2008 **Date Prepared:** 09/12/2008 **Analyst:** 4124

Reporting Units: ug/L

TCL VOCs by SW-846 8260B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<1.0	50	48	96	50	47	94	2	70-130	20	
Benzene	<1.0	50	46	92	50	46	92	0	80-120	20	
Chlorobenzene	<1.0	50	47	94	50	45	90	4	80-120	20	
Toluene	<1.0	50	46	92	50	45	90	2	75-120	20	
Trichloroethene	<1.0	50	44	88	50	44	88	0	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 311894

Lab Batch #: 733806 **Project ID:** 08096
Date Analyzed: 09/10/2008 **Date Prepared:** 09/05/2008 **Analyst:** 4154
QC- Sample ID: 311792-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

BOD by SM5210B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	<2.00	<2.00	NC	20	

Lab Batch #: 733491
Date Analyzed: 09/08/2008 **Date Prepared:** 09/08/2008 **Analyst:** 4099
QC- Sample ID: 311607-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Chemical Oxygen Demand by SM 5220D Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	100	110	10	20	

Lab Batch #: 733922
Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150
QC- Sample ID: 311894-005 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Dissolved Metals by SW-846 6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	<0.100	NC	20	

Lab Batch #: 733952
Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** SNL
QC- Sample ID: 311894-005 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Inorganic Anions by SW-846 9056 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	4.8	4.8	0	20	
Sulfate	3.1	3.1	0	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 311894

Lab Batch #: 733952 **Project ID:** 08096
Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** SNL
QC- Sample ID: 312278-002 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Inorganic Anions by SW-846 9056 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	3.4	3.5	3	20	
Sulfate	<1.0	<1.0	NC	20	

Lab Batch #: 733658
Date Analyzed: 09/09/2008 **Date Prepared:** 09/08/2008 **Analyst:** RCH
QC- Sample ID: 311892-002 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Metals, Total by SW846 6010B Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Arsenic	<0.010	<0.010	NC	20	
Barium	0.014	<0.050	NC	20	
Cadmium	<0.005	<0.005	NC	20	
Chromium	0.078	0.078	0	20	
Copper	0.009	<0.050	NC	20	
Lead	0.004	<0.010	NC	20	
Selenium	<0.010	<0.010	NC	20	
Sodium	7.84	7.24	8	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

XENCO Laboratories

☐ 5757 N.W. 158th Street, Miami Lakes, Fl 33014 305-823-8500
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☐ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

☐ Philadephia/New Jersey 610-955-5649

Serial #: 219056 Page 1 of 1

Company-City: Winter Environmental Norcross **Phone:**

Lab Only: WO# 311894

Proj Name-Location: Fashion Care ☐ Previously done at XENCO **Project ID:** 08096

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Proj State: AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, TX, UT Other **Proj. Manager (PM):** Len Diprima

Fax Results to ☐ PM or **e-mail to:** LDiprima@WinterEnvironmental.com **Fax No:**

Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O Bill to:

Quote/Pricing: **P.O No:** ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA

QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

LPST No.:

Sampler Name: Joe King Signature: Joe D King

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs BTEX-MTBE VOHs VOAs PP TCL Appdx 1 Appdx 2	Method: 8260 8021 624 524	PAHs: 8270 8100 8310 8270_SIM	TRPH by FL PRO DRO GRO MA EPH MA VPH	SVOCs: 8270 625 - (BN&AE) (TCL) (PP) (Appdx 2)	Pest. (8081 / 608) PCBs (8082 / 608) Herb. (8151 / 615)	EDB / DBCP (8011 / 504)	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	Metals Methods: 6020 / 6010 / 200.8 / 7470 / 7471	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	FL Preburn: Virgin Non-Virgin	Anions, BOD Diss. Iron COD						TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Sample Clean-ups are pre-approved as needed	Remarks: See Analysis list w/COC		Addn: Date Rcv by: From:	
1	FMW-4	9-4-08	1015	0-2'	S		X	4	V2	C	L	X											X	X	X									X			1
2	FMW-4	9-4-08	1025	4-8'	S		X	4	V2	C	L	X																						X			2
3	FMW-4	9-4-08	1035	11-13'	S		X	4	V2	C	L	X																						X			3
4	SB-27	9-4-08	1130	0-2'	S		X	4	V2	C	L	X																						X			4
5	FMW-6	9-5-08	1305	—	W		X	6			L	X								X			X	X	X									X			5
6	FMW-5	9-5-08	1445	—	W		X	6			L	X								X			X	X	X									X			6
7	DUP30108	9-5-08		—	W		X	6			L	X								X			X	X	X									X			7
8	TBLK30108	9-5-08		—	W		X	2	V	C	L	X																									8
9																																					9
10																																					10

	Relinquished by (Initials and Sign)		Date & Time		Relinquished to (Initials and Sign)		Date & Time
1	1) Joe D King	JDK	9-5-08	1605	2) [signature]		9/5/08 1605
2	3)				4)		
3	5)				6)		

Total Containers per COC: Cooler Temp: 4 °C

All XENCO Standard Terms and Conditions Apply.

Rush Charges are Pre-Approved upon Requesting them.

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O) _____

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tedlar Bag (B), Wipe (W), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Other (O) _____

Matrix: Air (A), Product (P), Solid(S), Water (W)

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Winter

Date/ Time: 9/5/08 1605

Lab ID # : 311894

Initials: JM

Sample Receipt Checklist

#1	Temperature of cooler?				4°C
#2	Shipping container in good condition?	YES	No	None	
#3	Samples received on ice?	YES	No	N/A	Blue/Water
#4	Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	N/A	
#6	Chain of Custody present?	YES	No		
#7	Sample instructions complete of Chain of Custody?	YES	No		
#8	Any missing/extra samples?	Yes	NO		
#9	Chain of Custody signed when relinquished/ received?	YES	No		
#10	Chain of Custody agrees with sample label(s)?	YES	No		
#11	Container label(s) legible and intact?	YES	No		
#12	Sample matrix/ properties agree with Chain of Custody?	YES	No		
#13	Samples in proper container/ bottle?	YES	No		
#14	Samples properly preserved?	YES	No	N/A	
#15	Sample container(s) intact?	YES	No		
#16	Sufficient sample amount for indicated test(s)?	YES	No		
#17	All samples received within sufficient hold time?	YES	No		
#18	Subcontract of sample(s)?	Yes	NO		
#19	VOC samples have zero headspace?	YES	No	N/A	

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Laboratory Analysis List
Fashion Care/Executive Care Site
Winter Environmental Project No. 08096

- VOCs (soil):
  - Tetrachloroethene (PCE)
  - cis-1, 2-Dichloroethene
  - trans-1, 2-Dichloroethene
  - 1, 1-Dichloroethene (1,1-DCE)
  - Trichloroethene (TCE)
  - Vinyl Chloride (VC)
  - Benzene
  - Toluene
  - Ethylbenzene
  - Total Xylenes
  - Cyclohexane
  - Isopropylbenzene
  - 1, 1-Dichloroethane
  - Acetone
- VOCs (groundwater/surface water): TCL List plus 1,4-dioxane
- Metals (groundwater/surface water):
  - arsenic
  - barium
  - lead
  - selenium
  - cadmium
  - chromium
  - copper
- BOD & COD (groundwater/surface water)
- Anions (groundwater/surface water): sodium, chlorides, SO4

Analytical Report 312032

for

Winter Environmental

Project Manager: Len Diprima

Fashion Care

08096

17-SEP-08

E84880

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Texas certification numbers:
Houston, TX T104704215 - Odessa/Midland, TX T104704215-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

17-SEP-08

Project Manager: **Len Diprima**
Winter Environmental
3350 Green Pointe Parkway
Norcross, GA 30092

Reference: XENCO Report No: **312032**
Fashion Care
Project Address: GA

Len Diprima:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 312032. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 312032 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

David C. Fuller
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY
Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW-1	W	Sep-08-08 07:25		312032-001
MW-14	W	Sep-08-08 08:05		312032-002
SW-2	W	Sep-08-08 09:00		312032-003
MW-13	W	Sep-08-08 09:05		312032-004
FMW-4	W	Sep-08-08 10:20		312032-005
FMW-2	W	Sep-08-08 12:25		312032-006
FMW-3	W	Sep-08-08 13:45		312032-007
FMW-1	W	Sep-08-08 15:40		312032-008
SW-3	W	Sep-08-08 16:30		312032-009
TBLK30208	W	Sep-08-08 07:45		312032-010

Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SW-1**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312032-001**	Date Collected: **Sep-08-08 07:25**	Date Received: **Sep-08-08 17:50**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 09:00 Analyst: 4154 Date Prep: Sep-10-08 07:30 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		6.19	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		16	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 14:51 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	U	0.100	0.017	mg/L	U	1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	5.4	1.0	0.062	mg/L		1
Sulfate	14808-79-8	6.1	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 13:47 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.004	mg/L	U	1
Barium	7440-39-3	0.017	0.050	0.001	mg/L	J	1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	0.003	0.050	0.002	mg/L	J	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	9.02	5.00	0.702	mg/L		1

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Version: 1.014

Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SW-1** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-001** Date Collected: **Sep-08-08 07:25** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 14:35 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	U	1.0	0.16	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.0	0.21	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.0	0.18	ug/L	U	1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.014

Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SW-1**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312032-001**	Date Collected: **Sep-08-08 07:25**	Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 14:35 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.0	0.16	ug/L	U	1
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	U	1.0	0.19	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.014

Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-14**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312032-002**	Date Collected: **Sep-08-08 08:05**	Date Received: **Sep-08-08 17:50**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 09:00 Analyst: 4154 Date Prep: Sep-10-08 07:30 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		7.52	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		28	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 14:53 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	24.5	0.100	0.017	mg/L		1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	12	1.0	0.062	mg/L		1
Sulfate	14808-79-8	1.4	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 13:58 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.029	0.010	0.004	mg/L		1
Barium	7440-39-3	0.075	0.050	0.001	mg/L		1
Cadmium	7440-43-9	0.002	0.005	0.001	mg/L	J	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	U	0.050	0.002	mg/L	U	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	11.2	5.00	0.702	mg/L		1

Project: Xenco-Atlanta Master Project

Version: 1.014

Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-14** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-002** Date Collected: **Sep-08-08 08:05** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 15:03 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	2.7	1.0	0.20	ug/L		1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	2.6	1.0	0.14	ug/L		1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	130	1.0	0.16	ug/L		1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	2600	20	4.2	ug/L	D	20
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	26	1.0	0.15	ug/L		1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	1.4	1.0	0.19	ug/L		1
Isopropylbenzene	98-82-8	10	1.0	0.15	ug/L		1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	130	2.0	0.18	ug/L		1
Methylcyclohexane	108-87-2	19	1.0	0.11	ug/L		1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-14**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312032-002**	Date Collected: **Sep-08-08 08:05**	Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 15:03 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	260	20	3.2	ug/L	D	20
Toluene	108-88-3	15	1.0	0.14	ug/L		1
trans-1,2-Dichloroethene	156-60-5	18	1.0	0.21	ug/L		1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	260	20	3.8	ug/L	D	20
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	830	20	3.8	ug/L	D	20
m,p-Xylenes	179601-23-1	2.2	2.0	0.51	ug/L		1
o-Xylene	95-47-6	3.7	1.0	0.20	ug/L		1
Xylenes, Total	1330-20-7	5.9			ug/L		1

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Version: 1.014

Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SW-2** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-003** Date Collected: **Sep-08-08 09:00** Date Received: **Sep-08-08 17:50**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 09:00 Analyst: 4154 Date Prep: Sep-10-08 07:30 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		7.55	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		28	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 14:55 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	0.018	0.100	0.017	mg/L	JB	1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	6.6	1.0	0.062	mg/L		1
Sulfate	14808-79-8	6.4	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 14:04 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.004	mg/L	U	1
Barium	7440-39-3	0.020	0.050	0.001	mg/L	J	1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	0.004	0.050	0.002	mg/L	J	1
Lead	7439-92-1	0.004	0.010	0.004	mg/L	J	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	9.21	5.00	0.702	mg/L		1

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Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SW-2** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-003** Date Collected: **Sep-08-08 09:00** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 15:31 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	U	1.0	0.16	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.0	0.21	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.0	0.18	ug/L	U	1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SW-2**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312032-003**	Date Collected: **Sep-08-08 09:00**	Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 15:31 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.0	0.16	ug/L	U	1
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	U	1.0	0.19	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-13** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-004** Date Collected: **Sep-08-08 09:05** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 15:59 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	12	1.0	0.18	ug/L		1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	U	1.0	0.16	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.0	0.21	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	190	2.0	0.18	ug/L		1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-13**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312032-004**	Date Collected: **Sep-08-08 09:05**	Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 15:59 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.0	0.16	ug/L	U	1
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	U	1.0	0.19	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-4** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-005** Date Collected: **Sep-08-08 10:20** Date Received: **Sep-08-08 17:50**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 09:00 Analyst: 4154 Date Prep: Sep-10-08 09:30 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		28.2	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		100	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 14:57 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	0.171	0.100	0.017	mg/L		1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	69	5.0	0.31	mg/L	D	5
Sulfate	14808-79-8	5.3	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 14:05 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.005	0.010	0.004	mg/L	JB	1
Barium	7440-39-3	0.394	0.050	0.001	mg/L		1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	0.003	0.050	0.002	mg/L	J	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	0.006	0.010	0.003	mg/L	J	1
Sodium	7440-23-5	18.7	5.00	0.702	mg/L		1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-4** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-005** Date Collected: **Sep-08-08 10:20** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 16:27 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	61	1.0	0.20	ug/L		1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	19	1.0	0.14	ug/L		1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	31	2.0	0.32	ug/L		1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	2000	500	80	ug/L	D	500
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	3.6	1.0	0.15	ug/L		1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	52000	500	110	ug/L	D	500
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	465	500	95	ug/L	J	500
Isopropylbenzene	98-82-8	19	1.0	0.15	ug/L		1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	945	1000	90	ug/L	J	500
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-4**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312032-005**	Date Collected: **Sep-08-08 10:20**	Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 16:27 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	42000	500	80	ug/L	D	500
Toluene	108-88-3	4100	500	70	ug/L	D	500
trans-1,2-Dichloroethene	156-60-5	900	500	110	ug/L	D	500
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	30000	500	95	ug/L	D	500
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	3700	500	95	ug/L	D	500
m,p-Xylenes	179601-23-1	940	1000	260	ug/L	J	500
o-Xylene	95-47-6	660	500	100	ug/L	D	500
Xylenes, Total	1330-20-7	1600			ug/L	D	500

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Version: 1.014

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-2** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-006** Date Collected: **Sep-08-08 12:25** Date Received: **Sep-08-08 17:50**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 09:00 Analyst: 4154 Date Prep: Sep-10-08 09:30 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		107	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		510	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 14:59 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	0.240	0.100	0.017	mg/L		1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	4.0	1.0	0.062	mg/L		1
Sulfate	14808-79-8	6.2	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 14:07 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.004	mg/L	U	1
Barium	7440-39-3	0.138	0.050	0.001	mg/L		1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	0.001	0.050	0.001	mg/L	J	1
Copper	7440-50-8	0.004	0.050	0.002	mg/L	J	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	0.014	0.010	0.003	mg/L		1
Sodium	7440-23-5	16.6	5.00	0.702	mg/L		1

Project: Xenco-Atlanta Master Project

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-2** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-006** Date Collected: **Sep-08-08 12:25** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 16:55 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	13	1.0	0.18	ug/L		1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	400	50	9.0	ug/L	D	50
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	190	2.0	0.28	ug/L		1
2-Hexanone	591-78-6	65	2.0	0.32	ug/L		1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	13000	500	80	ug/L	D	500
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	110	1.0	0.21	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	140	1.0	0.15	ug/L		1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	2600	50	9.5	ug/L	D	50
Isopropylbenzene	98-82-8	82	1.0	0.15	ug/L		1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	930	100	9.0	ug/L	D	50
Methylcyclohexane	108-87-2	43	1.0	0.11	ug/L		1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-2** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-006** Date Collected: **Sep-08-08 12:25** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 16:55 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	60	1.0	0.16	ug/L		1
Toluene	108-88-3	6000	50	7.0	ug/L	D	50
trans-1,2-Dichloroethene	156-60-5	5.7	1.0	0.21	ug/L		1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	27	1.0	0.19	ug/L		1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	9800	100	26	ug/L	D	50
o-Xylene	95-47-6	4900	50	10	ug/L	D	50
Xylenes, Total	1330-20-7	14700			ug/L	D	50

Project: Xenco-Atlanta Master Project

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-3** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-007** Date Collected: **Sep-08-08 13:45** Date Received: **Sep-08-08 17:50**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 12:45 Analyst: 4154 Date Prep: Sep-10-08 12:00 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		8.82	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		40	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 15:01 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	8.15	0.100	0.017	mg/L		1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	20	1.0	0.062	mg/L		1
Sulfate	14808-79-8	4.0	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 14:09 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.013	0.010	0.004	mg/L	B	1
Barium	7440-39-3	0.046	0.050	0.001	mg/L	J	1
Cadmium	7440-43-9	0.001	0.005	0.001	mg/L	J	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	U	0.050	0.002	mg/L	U	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	0.004	0.010	0.003	mg/L	J	1
Sodium	7440-23-5	21.3	5.00	0.702	mg/L		1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-3** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-007** Date Collected: **Sep-08-08 13:45** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 17:23 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	160	1.0	0.16	ug/L		1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	4.8	1.0	0.21	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	35	1.0	0.15	ug/L		1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	190	1.0	0.19	ug/L		1
Isopropylbenzene	98-82-8	17	1.0	0.15	ug/L		1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.0	0.18	ug/L	U	1
Methylcyclohexane	108-87-2	18	1.0	0.11	ug/L		1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-3** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-007** Date Collected: **Sep-08-08 13:45** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 17:23 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	16	1.0	0.16	ug/L		1
Toluene	108-88-3	7.5	1.0	0.14	ug/L		1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	5.7	1.0	0.19	ug/L		1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	880	20	5.1	ug/L	D	10
o-Xylene	95-47-6	8.4	1.0	0.20	ug/L		1
Xylenes, Total	1330-20-7	888.4			ug/L	D	10

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-1**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312032-008**	Date Collected: **Sep-08-08 15:40**	Date Received: **Sep-08-08 17:50**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 12:45 Analyst: 4154 Date Prep: Sep-10-08 12:00 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		14.6	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		81	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 15:02 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	0.459	0.100	0.017	mg/L		1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	9.7	1.0	0.062	mg/L		1
Sulfate	14808-79-8	5.2	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 14:11 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.005	0.010	0.004	mg/L	JB	1
Barium	7440-39-3	0.117	0.050	0.001	mg/L		1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	0.002	0.050	0.001	mg/L	J	1
Copper	7440-50-8	0.004	0.050	0.002	mg/L	J	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	0.010	0.010	0.003	mg/L	J	1
Sodium	7440-23-5	12.6	5.00	0.702	mg/L		1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-1** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-008** Date Collected: **Sep-08-08 15:40** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 17:51 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	830	20	3.2	ug/L	D	20
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	2.7	1.0	0.21	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	45	1.0	0.15	ug/L		1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	330	20	3.8	ug/L	D	20
Isopropylbenzene	98-82-8	13	1.0	0.15	ug/L		1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	2400	40	3.6	ug/L	D	20
Methylcyclohexane	108-87-2	18	1.0	0.11	ug/L		1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-1** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-008** Date Collected: **Sep-08-08 15:40** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 17:51 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	8.6	1.0	0.16	ug/L		1
Toluene	108-88-3	54	1.0	0.14	ug/L		1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	2.8	1.0	0.19	ug/L		1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	400	2.0	0.51	ug/L		1
o-Xylene	95-47-6	45	1.0	0.20	ug/L		1
Xylenes, Total	1330-20-7	445			ug/L		1

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Fashion Care

Sample Id: **SW-3** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-009** Date Collected: **Sep-08-08 16:30** Date Received: **Sep-08-08 17:50**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 12:45 Analyst: 4154 Date Prep: Sep-10-08 12:00 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		11.4	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		47	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 15:04 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	U	0.100	0.017	mg/L	U	1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	6.1	1.0	0.062	mg/L		1
Sulfate	14808-79-8	6.4	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 14:13 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.004	mg/L	U	1
Barium	7440-39-3	0.026	0.050	0.001	mg/L	J	1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	0.006	0.050	0.002	mg/L	J	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	10.2	5.00	0.702	mg/L		1

Project: Xenco-Atlanta Master Project

Version: 1.014

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SW-3** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-009** Date Collected: **Sep-08-08 16:30** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-16-08 17:58 Analyst: NTR Date Prep: Sep-16-08 07:53 Tech: NTR
Seq Number: 734291

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	U	1.0	0.16	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.0	0.21	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.0	0.18	ug/L	U	1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.014

Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SW-3**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312032-009**	Date Collected: **Sep-08-08 16:30**	Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-16-08 17:58 Analyst: NTR Date Prep: Sep-16-08 07:53 Tech: NTR

Seq Number: 734291

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.0	0.16	ug/L	U	1
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	U	1.0	0.19	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.014

Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **TBLK30208** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-010** Date Collected: **Sep-08-08 07:45** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 14:07 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	U	1.0	0.16	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.0	0.21	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.0	0.18	ug/L	U	1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.014

Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **TBLK30208** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-010** Date Collected: **Sep-08-08 07:45** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 14:07 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.0	0.16	ug/L	U	1
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	U	1.0	0.19	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.014

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

* Outside XENCO'S scope of NELAC Accreditation

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312032, **Project ID:** 08096

Lab Batch #: 734130 **Sample:** 312032-001 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52.86	50.00	106	53-159	
4-Bromofluorobenzene	50.92	50.00	102	30-186	
Toluene-D8	48.73	50.00	97	70-130	

Lab Batch #: 734130 **Sample:** 312032-001 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	44.02	50.00	88	53-159	
4-Bromofluorobenzene	50.39	50.00	101	30-186	
Toluene-D8	49.85	50.00	100	70-130	

Lab Batch #: 734130 **Sample:** 312032-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	44.34	50.00	89	53-159	
4-Bromofluorobenzene	50.94	50.00	102	30-186	
Toluene-D8	49.95	50.00	100	70-130	

Lab Batch #: 734130 **Sample:** 312032-002 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53.61	50.00	107	53-159	
4-Bromofluorobenzene	50.72	50.00	101	30-186	
Toluene-D8	49.56	50.00	99	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312032, **Project ID:** 08096

Lab Batch #: 734130 **Sample:** 312032-003 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52.58	50.00	105	53-159	
4-Bromofluorobenzene	50.81	50.00	102	30-186	
Toluene-D8	49.70	50.00	99	70-130	

Lab Batch #: 734130 **Sample:** 312032-004 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54.12	50.00	108	53-159	
4-Bromofluorobenzene	50.14	50.00	100	30-186	
Toluene-D8	49.13	50.00	98	70-130	

Lab Batch #: 734130 **Sample:** 312032-005 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	78.22	50.00	156	53-159	
4-Bromofluorobenzene	49.68	50.00	99	30-186	
Toluene-D8	57.98	50.00	116	70-130	

Lab Batch #: 734130 **Sample:** 312032-006 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53.81	50.00	108	53-159	
4-Bromofluorobenzene	50.69	50.00	101	30-186	
Toluene-D8	48.64	50.00	97	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312032, **Project ID:** 08096

Lab Batch #: 734130 **Sample:** 312032-007 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51.64	50.00	103	53-159	
4-Bromofluorobenzene	51.03	50.00	102	30-186	
Toluene-D8	49.28	50.00	99	70-130	

Lab Batch #: 734130 **Sample:** 312032-008 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51.98	50.00	104	53-159	
4-Bromofluorobenzene	50.01	50.00	100	30-186	
Toluene-D8	49.51	50.00	99	70-130	

Lab Batch #: 734130 **Sample:** 312032-010 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52.83	50.00	106	53-159	
4-Bromofluorobenzene	49.84	50.00	100	30-186	
Toluene-D8	48.67	50.00	97	70-130	

Lab Batch #: 734130 **Sample:** 515635-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	45.14	50.00	90	53-159	
4-Bromofluorobenzene	50.70	50.00	101	30-186	
Toluene-D8	49.32	50.00	99	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312032, **Project ID:** 08096

Lab Batch #: 734130 **Sample:** 515635-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52.73	50.00	105	53-159	
4-Bromofluorobenzene	50.78	50.00	102	30-186	
Toluene-D8	49.66	50.00	99	77-124	

Lab Batch #: 734291 **Sample:** 312032-002 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47.37	50.00	95	53-159	
4-Bromofluorobenzene	52.12	50.00	104	30-186	
Toluene-D8	44.33	50.00	89	70-130	

Lab Batch #: 734291 **Sample:** 312032-005 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48.00	50.00	96	53-159	
4-Bromofluorobenzene	51.31	50.00	103	30-186	
Toluene-D8	44.17	50.00	88	70-130	

Lab Batch #: 734291 **Sample:** 312032-006 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48.59	50.00	97	53-159	
4-Bromofluorobenzene	51.86	50.00	104	30-186	
Toluene-D8	44.40	50.00	89	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312032, **Project ID:** 08096

Lab Batch #: 734291 **Sample:** 312032-006 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47.40	50.00	95	53-159	
4-Bromofluorobenzene	51.27	50.00	103	30-186	
Toluene-D8	44.46	50.00	89	70-130	

Lab Batch #: 734291 **Sample:** 312032-007 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48.83	50.00	98	53-159	
4-Bromofluorobenzene	50.97	50.00	102	30-186	
Toluene-D8	44.06	50.00	88	70-130	

Lab Batch #: 734291 **Sample:** 312032-008 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	46.97	50.00	94	53-159	
4-Bromofluorobenzene	51.08	50.00	102	30-186	
Toluene-D8	44.19	50.00	88	70-130	

Lab Batch #: 734291 **Sample:** 312032-009 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	46.82	50.00	94	53-159	
4-Bromofluorobenzene	51.35	50.00	103	30-186	
Toluene-D8	44.25	50.00	89	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312032, **Project ID:** 08096

Lab Batch #: 734291 **Sample:** 312476-001 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	41.37	50.00	83	53-159	
4-Bromofluorobenzene	51.28	50.00	103	30-186	
Toluene-D8	44.62	50.00	89	70-130	

Lab Batch #: 734291 **Sample:** 312476-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	40.96	50.00	82	53-159	
4-Bromofluorobenzene	51.39	50.00	103	30-186	
Toluene-D8	44.66	50.00	89	70-130	

Lab Batch #: 734291 **Sample:** 515718-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	41.59	50.00	83	53-159	
4-Bromofluorobenzene	51.03	50.00	102	30-186	
Toluene-D8	44.52	50.00	89	70-130	

Lab Batch #: 734291 **Sample:** 515718-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48.19	50.00	96	53-159	
4-Bromofluorobenzene	51.39	50.00	103	30-186	
Toluene-D8	44.42	50.00	89	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 312032 **Project ID:** 08096

Lab Batch #: 734130 **Sample:** 515635-1-BKS **Matrix:** Water
Date Analyzed: 09/13/2008 **Date Prepared:** 09/13/2008 **Analyst:** NTR
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.0	50	42	84	70-130	
Benzene	<1.0	50	43	86	80-120	
Chlorobenzene	<1.0	50	43	86	80-120	
Toluene	<1.0	50	42	84	75-120	
Trichloroethene	<1.0	50	44	88	70-125	

Lab Batch #: 734291 **Sample:** 515718-1-BKS **Matrix:** Water
Date Analyzed: 09/16/2008 **Date Prepared:** 09/16/2008 **Analyst:** NTR
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.0	50	52	104	70-130	
Benzene	<1.0	50	48	96	80-120	
Chlorobenzene	<1.0	50	48	96	80-120	
Toluene	<1.0	50	48	96	75-120	
Trichloroethene	<1.0	50	46	92	70-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 312032 **Project ID:** 08096

Analyst: 4154 **Date Prepared:** 09/10/2008 **Date Analyzed:** 09/15/2008

Lab Batch ID: 734170 **Sample:** 515657-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BOD by SM5210B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	<2.00	200	187	94	200	191	96	2	70-120	20	

Analyst: SBA **Date Prepared:** 09/10/2008 **Date Analyzed:** 09/10/2008

Lab Batch ID: 733955 **Sample:** 733955-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chemical Oxygen Demand by SM 5220D Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	<10	200	210	105	200	220	110	5	71-128	20	

Analyst: 4150 **Date Prepared:** 09/10/2008 **Date Analyzed:** 09/11/2008

Lab Batch ID: 733922 **Sample:** 515438-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	0.023	11.0	9.70	88	11	9.73	88	0	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 312032 **Project ID:** 08096

Analyst: SNL **Date Prepared:** 09/12/2008 **Date Analyzed:** 09/12/2008

Lab Batch ID: 734167 **Sample:** 734167-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by SW-846 9056 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<1.0	10	9.1	91	10	9.2	92	1	70-125	20	
Sulfate	<1.0	10	9.0	90	10	9.1	91	1	70-125	20	

Analyst: SNL **Date Prepared:** 09/15/2008 **Date Analyzed:** 09/15/2008

Lab Batch ID: 734169 **Sample:** 734169-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by SW-846 9056 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<1.0	10	9.3	93	10	9.2	92	1	70-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 312032
Project ID: 08096
Analyst: 4150
Date Prepared: 09/10/2008
Date Analyzed: 09/11/2008
Lab Batch ID: 733894
Sample: 515442-1-BKS
Batch #: 1
Matrix: Water
Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Metals, Total by SW846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.005	1.00	0.959	96	1	0.956	96	0	75-125	20	
Barium	<0.050	1.00	0.973	97	1	0.973	97	0	75-125	20	
Cadmium	<0.005	1.00	0.996	100	1	0.995	100	0	75-125	20	
Chromium	<0.050	1.00	0.995	100	1	0.998	100	0	75-125	20	
Copper	0.002	1.00	0.989	99	1	0.989	99	0	75-125	20	
Lead	<0.010	1.00	0.983	98	1	0.985	99	0	75-125	20	
Selenium	<0.010	1.00	0.979	98	1	0.979	98	0	75-125	20	
Sodium	<5.00	9.00	10.2	113	9	10.2	113	0	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 312032 **Project ID:** 08096

Lab Batch ID: 733955 **QC- Sample ID:** 312101-001 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 09/10/2008 **Date Prepared:** 09/10/2008 **Analyst:** SBA
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chemical Oxygen Demand by SM 5220D Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	16	200	240	112	200	230	107	5	71-128	20	

Lab Batch ID: 733922 **QC- Sample ID:** 311894-005 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	11.0	9.93	90	11.0	10.6	96	6	75-125	20	

Lab Batch ID: 734167 **QC- Sample ID:** 312032-001 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 09/12/2008 **Date Prepared:** 09/12/2008 **Analyst:** SNL
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by SW-846 9056 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	5.4	10	14	86	10	14	86	0	70-125	20	
Sulfate	6.1	10	15	89	10	15	89	0	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 312032 **Project ID:** 08096

Lab Batch ID: 734169 **QC- Sample ID:** 312351-020 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/15/2008 **Date Prepared:** 09/15/2008 **Analyst:** SNL

Reporting Units: mg/L

Inorganic Anions by SW-846 9056 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	12	10	21	90	10	21	90	0	70-125	20	

Lab Batch ID: 733894 **QC- Sample ID:** 312032-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150

Reporting Units: mg/L

Metals, Total by SW846 6010B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.010	1.00	0.976	98	1.00	1.01	101	3	75-125	20	
Barium	0.017	1.00	0.996	98	1.00	1.02	100	2	75-125	20	
Cadmium	<0.005	1.00	1.00	100	1.00	1.03	103	3	75-125	20	
Chromium	<0.050	1.00	1.01	101	1.00	1.03	103	2	75-125	20	
Copper	0.003	1.00	1.00	100	1.00	1.02	102	2	75-125	20	
Lead	<0.010	1.00	0.989	99	1.00	1.01	101	2	75-125	20	
Selenium	0.003	1.00	0.995	99	1.00	1.02	102	3	75-125	20	
Sodium	9.02	9.00	18.3	103	9.00	18.8	109	6	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 312032 **Project ID:** 08096

Lab Batch ID: 734130 **QC- Sample ID:** 312032-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/13/2008 **Date Prepared:** 09/13/2008 **Analyst:** NTR

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<1.0	50	44	88	50	42	84	5	70-130	20	
Benzene	<1.0	50	44	88	50	43	86	2	80-120	20	
Chlorobenzene	<1.0	50	42	84	50	41	82	2	80-120	20	
Toluene	<1.0	50	43	86	50	41	82	5	75-120	20	
Trichloroethene	<1.0	50	46	92	50	44	88	4	70-125	20	

Lab Batch ID: 734291 **QC- Sample ID:** 312476-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/16/2008 **Date Prepared:** 09/16/2008 **Analyst:** NTR

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<1.0	50	51	102	50	51	102	0	70-130	20	
Benzene	<1.0	50	48	96	50	47	94	2	80-120	20	
Chlorobenzene	<1.0	50	47	94	50	47	94	0	80-120	20	
Toluene	<1.0	50	48	96	50	47	94	2	75-120	20	
Trichloroethene	<1.0	50	55	110	50	44	88	22	70-125	20	F

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 312032

Lab Batch #: 734170 **Project ID:** 08096
Date Analyzed: 09/15/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4154
QC- Sample ID: 312032-006 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

BOD by SM5210B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	107	109	2	20	

Lab Batch #: 733955
Date Analyzed: 09/10/2008 **Date Prepared:** 09/10/2008 **Analyst:** SBA
QC- Sample ID: 312101-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Chemical Oxygen Demand by SM 5220D Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	16	21	27	20	F

Lab Batch #: 733922
Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150
QC- Sample ID: 311894-005 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Dissolved Metals by SW-846 6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	<0.100	NC	20	

Lab Batch #: 734169
Date Analyzed: 09/15/2008 **Date Prepared:** 09/15/2008 **Analyst:** SNL
QC- Sample ID: 312351-020 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Inorganic Anions by SW-846 9056 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	12	12	0	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 312032

Lab Batch #: 734167 **Project ID:** 08096
Date Analyzed: 09/12/2008 **Date Prepared:** 09/12/2008 **Analyst:** SNL
QC- Sample ID: 312032-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Inorganic Anions by SW-846 9056 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	5.4	5.4	0	20	
Sulfate	6.1	6.3	3	20	

Lab Batch #: 733894
Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150
QC- Sample ID: 312032-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Metals, Total by SW846 6010B Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Arsenic	<0.010	<0.010	NC	20	
Barium	0.017	0.017	0	20	
Cadmium	<0.005	<0.005	NC	20	
Chromium	<0.050	<0.050	NC	20	
Copper	0.003	0.003	0	20	
Lead	<0.010	<0.010	NC	20	
Selenium	0.003	<0.010	NC	20	
Sodium	9.02	9.64	7	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

XENCO Laboratories

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ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

☐ Philadephia/New Jersey 610-955-5649

Serial #: 219059 Page 1 of 1

Company-City: Winter-Environmental
Phone: 404-588-3300
Lab Only: WO# 312032

Proj Name-Location: Fashion Care ☐ Previously done at XENCO
Project ID: 8096

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Proj State: AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, TX, UT Other
Proj. Manager (PM): Len Diprima

Fax Results to ☐ PM or e-mail to: LDiprima@winter-Environmental.com
Fax No: 404-223-6251

Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O Bill to:

Quote/Pricing: P.O No: ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA

QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

LPST No.:

Sampler Name Signature

From: Rcv by: Date Addn:

	Sample ID	Sampling Date	Time	Depth ft' in" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs BTEX-MTBE VOHs VOAs PP TCL Appdx 1 Appdx 2	Method: 8260 8021 624 524	PAHs: 8270 8100 8310 8270_SIM	TRPH by FL PRO DRO GRO MA EPH MA VPH	SVOCs: 8270 625 - (BN&AE) (TCL) (PP) (Appdx 2)	Pest. (8081 / 608) PCBs (8082 / 608) Herb. (8151 / 615)	EDB / DBCP (8011 / 504)	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	Metals Methods: 6020 / 6010 / 200.8 / 7470 / 7471	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	FL Preburn: Virgin Non-Virgin	Anions	BOD	Diss. Iron	COD					TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Remarks: Sample Clean-ups are pre-approved as needed			
1	SW-1	9-8-08	0725	—	W		X	6			L	X							X				X	X	X												1
2	MW-14	9-8-08	0805	—	W		X	6			L	X							X				X	X	X												2
3	SW-2	9-8-08	0900	—	W		X	6			L	X							X				X	X	X												3
4	MW-13	9-8-08	0905	—	W		X	2	V	C	L	X																									4
5	FMW-4	9-8-08	1020	—	W		X	6			L	X							X				X	X	X												5
6	FMW-2	9-8-08	1225	—	W		X	6			L	X							X				X	X	X												6
7	FMW-3	9-8-08	1345	—	W		X	6			L	X							X				X	X	X												7
8	FMW-1	9-8-08	1540	—	W		X	6			L	X							X				X	X	X												8
9	SW-3	9-8-08	1630	—	W		X	6			L	X							X				X	X	X												9
10	TBLK30908	9-8-08	0745	—	W			2	V	C	L	X																									10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time	Total Containers per COC:	Cooler Temp:
1) [signature]	9-8-08 5:50 pm	2) Mario Alvez	09/08/08	5:50.	5°C
2) 3)		4)		All XENCO Standard Terms and Conditions Apply.	
3) 5)		6)		Rush Charges are Pre-Approved upon Requesting them.	

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O) _____

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tedlar Bag (B), Wipe (W), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Other (O) _____

Matrix: Air (A), Product (P), Solid(S), Water (W)

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Laboratory Analysis List
Fashion Care/Executive Care Site
Winter Environmental Project No. 08096

- VOCs (soil):
  - Tetrachloroethene (PCE)
  - cis-1, 2-Dichloroethene
  - trans-1, 2-Dichloroethene
  - 1, 1-Dichloroethene (1,1-DCE)
  - Trichloroethene (TCE)
  - Vinyl Chloride (VC)
  - Benzene
  - Toluene
  - Ethylbenzene
  - Total Xylenes
  - Cyclohexane
  - Isopropylbenzene
  - 1, 1-Dichloroethane
  - Acetone
- VOCs (groundwater/surface water): TCL List plus 1,4-dioxane
- Metals (groundwater/surface water):
  - arsenic
  - barium
  - lead
  - selenium
  - cadmium
  - chromium
  - copper
- BOD & COD (groundwater/surface water)
- Anions (groundwater/surface water): sodium, chlorides, SO4

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Winter Envi

Date/ Time: 9/8/08 1750

Lab ID # : 312032

Initials: JM

Sample Receipt Checklist

#1	Temperature of cooler?				5° C
#2	Shipping container in good condition?	YES	No	None	
#3	Samples received on ice?	YES	No	N/A	Blue/Water
#4	Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	N/A	
#6	Chain of Custody present?	YES	No		
#7	Sample instructions complete of Chain of Custody?	YES	No		
#8	Any missing/extra samples?	Yes	NO		
#9	Chain of Custody signed when relinquished/ received?	YES	No		
#10	Chain of Custody agrees with sample label(s)?	YES	No		
#11	Container label(s) legible and intact?	YES	No		
#12	Sample matrix/ properties agree with Chain of Custody?	YES	No		
#13	Samples in proper container/ bottle?	YES	No		
#14	Samples properly preserved?	YES	No	N/A	
#15	Sample container(s) intact?	YES	No		
#16	Sufficient sample amount for indicated test(s)?	YES	No		
#17	All samples received within sufficient hold time?	YES	No		
#18	Subcontract of sample(s)?	Yes	NO		
#19	VOC samples have zero headspace?	YES	No	N/A	

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 312101

for

Winter Environmental

Project Manager: Len Diprima

Fashion Care

08096

18-SEP-08

E84880

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Texas certification numbers:
Houston, TX T104704215 - Odessa/Midland, TX T104704215-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

18-SEP-08

Project Manager: **Len Diprima**
Winter Environmental
3350 Green Pointe Parkway
Norcross, GA 30092

Reference: XENCO Report No: **312101**
Fashion Care
Project Address: GA

Len Diprima:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 312101. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 312101 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

David C. Fuller
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 312101

Winter Environmental, Norcross, GA

Fashion Care

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-23D	W	Sep-09-08 10:20		312101-001
MW-9R	W	Sep-09-08 10:55		312101-002
MW-2R	W	Sep-09-08 12:25		312101-003
MW-11	W	Sep-09-08 14:20		312101-004
IDW Water	W	Sep-09-08 14:50		312101-005
IDW Soil	W	Sep-09-08 15:05		312101-006
TBLK03308	W	Sep-09-08 09:00		312101-007

Certificate of Analytical Results 312101

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-23D** Matrix: **WATER** % Moisture:
Lab Sample Id: **312101-001** Date Collected: **Sep-09-08 10:20** Date Received: **Sep-09-08 15:57**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 12:45 Analyst: 4154 Date Prep: Sep-10-08 12:00 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		U	2.00	1.50	mg/L	U	1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		16	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 15:10 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	0.164	0.100	0.017	mg/L		1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	3.9	1.0	0.062	mg/L		1
Sulfate	14808-79-8	3.5	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 14:14 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.004	mg/L	U	1
Barium	7440-39-3	0.029	0.050	0.001	mg/L	J	1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	0.002	0.050	0.001	mg/L	J	1
Copper	7440-50-8	0.004	0.050	0.002	mg/L	J	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	8.76	5.00	0.702	mg/L		1

Project: Xenco-Atlanta Master Project

Version: 1.015

Certificate of Analytical Results 312101

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-23D** Matrix: **WATER** % Moisture:
Lab Sample Id: **312101-001** Date Collected: **Sep-09-08 10:20** Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 18:47 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	33	2.0	0.35	ug/L		1
Benzene	71-43-2	U	1.0	0.16	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	3.4	1.0	0.21	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	1.8	2.0	0.18	ug/L	J	1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.015

Certificate of Analytical Results 312101

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-23D**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-001**	Date Collected: **Sep-09-08 10:20**	Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 18:47 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	1700	20	3.2	ug/L	D	20
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	28	1.0	0.19	ug/L		1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	1.1	2.0	0.51	ug/L	J	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	1.1			ug/L		1

Project: Xenco-Atlanta Master Project

Version: 1.015

Certificate of Analytical Results 312101

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-9R**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-002**	Date Collected: **Sep-09-08 10:55**	Date Received: **Sep-09-08 15:57**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 12:45 Analyst: 4154 Date Prep: Sep-10-08 12:00 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		16.4	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		65	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 15:11 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	4.89	0.100	0.017	mg/L		1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	12	1.0	0.062	mg/L		1
Sulfate	14808-79-8	U	1.0	0.062	mg/L	U	1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 14:16 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.006	0.010	0.004	mg/L	JB	1
Barium	7440-39-3	0.081	0.050	0.001	mg/L		1
Cadmium	7440-43-9	0.001	0.005	0.001	mg/L	J	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	0.004	0.050	0.002	mg/L	J	1
Lead	7439-92-1	0.008	0.010	0.004	mg/L	J	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	9.90	5.00	0.702	mg/L		1

Project: Xenco-Atlanta Master Project

Version: 1.015

Certificate of Analytical Results 312101

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-9R** Matrix: **WATER** % Moisture:
Lab Sample Id: **312101-002** Date Collected: **Sep-09-08 10:55** Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 21:09 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	10	1.6	ug/L	U	10
1,1,2,2-Tetrachloroethane	79-34-5	U	10	1.8	ug/L	U	10
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	10	1.1	ug/L	U	10
1,1,2-Trichloroethane	79-00-5	U	10	2.5	ug/L	U	10
1,1-Dichloroethane	75-34-3	U	10	1.1	ug/L	U	10
1,1-Dichloroethene	75-35-4	U	10	2.0	ug/L	U	10
1,2,4-Trichlorobenzene	120-82-1	U	10	1.7	ug/L	U	10
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	10	1.9	ug/L	U	10
1,2-Dibromoethane (EDB)	106-93-4	U	10	1.8	ug/L	U	10
1,2-Dichlorobenzene	95-50-1	U	10	1.4	ug/L	U	10
1,2-Dichloroethane	107-06-2	U	10	1.8	ug/L	U	10
1,2-Dichloropropane	78-87-5	U	10	1.5	ug/L	U	10
1,3-Dichlorobenzene	541-73-1	U	10	1.7	ug/L	U	10
1,4-Dichlorobenzene	106-46-7	U	10	1.7	ug/L	U	10
1,4-Dioxane	123-91-1	U	200	88	ug/L	U	10
2-Butanone (MEK)	78-93-3	U	20	2.8	ug/L	U	10
2-Hexanone	591-78-6	U	20	3.2	ug/L	U	10
4-Methyl-2-pentanone (MIBK)	108-10-1	U	20	2.6	ug/L	U	10
Acetone	67-64-1	U	20	3.5	ug/L	U	10
Benzene	71-43-2	1600	500	80	ug/L	D	500
Bromodichloromethane	75-27-4	U	10	2.5	ug/L	U	10
Bromoform	75-25-2	U	10	1.7	ug/L	U	10
Bromomethane	74-83-9	U	10	2.5	ug/L	U	10
Carbon disulfide	75-15-0	U	10	2.6	ug/L	U	10
Carbon tetrachloride	56-23-5	U	10	3.3	ug/L	U	10
Chlorobenzene	108-90-7	U	10	1.5	ug/L	U	10
Chloroethane	75-00-3	U	10	2.6	ug/L	U	10
Chloroform	67-66-3	U	10	1.6	ug/L	U	10
Chloromethane	74-87-3	U	10	2.5	ug/L	U	10
cis-1,2-Dichloroethene	156-59-2	220	10	2.1	ug/L		10
cis-1,3-Dichloropropene	10061-01-5	U	10	1.0	ug/L	U	10
Cyclohexane	110-82-7	140	10	1.5	ug/L		10
Dibromochloromethane	124-48-1	U	10	1.5	ug/L	U	10
Dichlorodifluoromethane	75-71-8	U	10	2.2	ug/L	U	10
Ethylbenzene	100-41-4	2000	10	1.9	ug/L		10
Isopropylbenzene	98-82-8	190	10	1.5	ug/L		10
Methyl acetate	79-20-9	U	20	2.6	ug/L	U	10
Methyl tert-butyl ether	1634-04-4	U	20	1.8	ug/L	U	10
Methylcyclohexane	108-87-2	57	10	1.1	ug/L		10

Project: Xenco-Atlanta Master Project

Version: 1.015

Certificate of Analytical Results 312101

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-9R**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-002**	Date Collected: **Sep-09-08 10:55**	Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 21:09 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	10	4.2	ug/L	U	10
Styrene	100-42-5	U	10	1.8	ug/L	U	10
Tetrachloroethene	127-18-4	100	10	1.6	ug/L		10
Toluene	108-88-3	260	10	1.4	ug/L		10
trans-1,2-Dichloroethene	156-60-5	U	10	2.1	ug/L	U	10
trans-1,3-Dichloropropene	10061-02-6	U	10	1.1	ug/L	U	10
Trichloroethene	79-01-6	22	10	1.9	ug/L		10
Trichlorofluoromethane	75-69-4	U	10	5.3	ug/L	U	10
Vinyl chloride	75-01-4	100	10	1.9	ug/L		10
m,p-Xylenes	179601-23-1	3500	20	5.1	ug/L		10
o-Xylene	95-47-6	550	10	2.0	ug/L		10
Xylenes, Total	1330-20-7	4050			ug/L		10

Project: Xenco-Atlanta Master Project

Version: 1.015

Certificate of Analytical Results 312101

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-2R**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-003**	Date Collected: **Sep-09-08 12:25**	Date Received: **Sep-09-08 15:57**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 12:45 Analyst: 4154 Date Prep: Sep-10-08 12:00 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		4.65	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		9.5	10	5.3	mg/L	J	1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 15:13 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	U	0.100	0.017	mg/L	U	1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	25	1.0	0.062	mg/L		1
Sulfate	14808-79-8	2.2	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 14:18 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.004	mg/L	U	1
Barium	7440-39-3	0.143	0.050	0.001	mg/L		1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	0.002	0.050	0.001	mg/L	J	1
Copper	7440-50-8	0.003	0.050	0.002	mg/L	J	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	12.0	5.00	0.702	mg/L		1

Project: Xenco-Atlanta Master Project

Version: 1.015

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-2R** Matrix: **WATER** % Moisture:
Lab Sample Id: **312101-003** Date Collected: **Sep-09-08 12:25** Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-16-08 23:48 Analyst: 4124 Date Prep: Sep-16-08 16:48 Tech: 4124
Seq Number: 734293

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	U	1.0	0.16	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.0	0.21	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.0	0.18	ug/L	U	1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-2R**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-003**	Date Collected: **Sep-09-08 12:25**	Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-16-08 23:48 Analyst: 4124 Date Prep: Sep-16-08 16:48 Tech: 4124

Seq Number: 734293

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.0	0.16	ug/L	U	1
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	U	1.0	0.19	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.015

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-11**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-004**	Date Collected: **Sep-09-08 14:20**	Date Received: **Sep-09-08 15:57**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 12:45 Analyst: 4154 Date Prep: Sep-10-08 12:00 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		3.89	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		21	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 15:15 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	2.98	0.100	0.017	mg/L		1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	4.2	1.0	0.062	mg/L		1
Sulfate	14808-79-8	3.3	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 14:20 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.004	mg/L	U	1
Barium	7440-39-3	0.034	0.050	0.001	mg/L	J	1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	U	0.050	0.002	mg/L	U	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	7.32	5.00	0.702	mg/L		1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-11**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-004**	Date Collected: **Sep-09-08 14:20**	Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 19:43 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	5.2	1.0	0.16	ug/L		1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.0	0.21	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	1.4	1.0	0.19	ug/L		1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	13	2.0	0.18	ug/L		1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-11**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-004**	Date Collected: **Sep-09-08 14:20**	Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 19:43 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	2.8	1.0	0.16	ug/L		1
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	U	1.0	0.19	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.015

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **IDW Water**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-005**	Date Collected: **Sep-09-08 14:50**	Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 20:10 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	1.5	1.0	0.20	ug/L		1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	1.8	1.0	0.14	ug/L		1
1,2-Dichloroethane	107-06-2	23	1.0	0.18	ug/L		1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	6.6	2.0	0.32	ug/L		1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	1200	250	34	ug/L	D	50
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	3000	250	40	ug/L	D	50
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	16	1.0	0.15	ug/L		1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	160	1.0	0.19	ug/L		1
Isopropylbenzene	98-82-8	7.1	1.0	0.15	ug/L		1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	350	2.0	0.18	ug/L		1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

Project: Xenco-Atlanta Master Project

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **IDW Water**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-005**	Date Collected: **Sep-09-08 14:50**	Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 20:10 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	6900	250	88	ug/L	D	50
Toluene	108-88-3	640	250	34	ug/L	D	50
trans-1,2-Dichloroethene	156-60-5	41	1.0	0.21	ug/L		1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	1400	250	36	ug/L	D	50
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	140	1.0	0.19	ug/L		1
m,p-Xylenes	179601-23-1	710	250	61	ug/L	D	50
o-Xylene	95-47-6	360	250	29	ug/L	D	50
Xylenes, Total	1330-20-7	1070			ug/L	D	50

Project: Xenco-Atlanta Master Project

Version: 1.015

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **IDW Soil**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-006**	Date Collected: **Sep-09-08 15:05**	Date Received: **Sep-09-08 15:57**

Analytical Method: TCLP Metals by SW-846 1311/6010B Prep Method: SW3010A

Date Analyzed: Sep-12-08 12:46 Analyst: 4150 Date Prep: Sep-11-08 10:15 Tech: ABA
Seq Number: 734106

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.015	0.500	0.008	mg/L	JB	2
Barium	7440-39-3	0.925	0.500	0.001	mg/L		2
Cadmium	7440-43-9	U	0.500	0.001	mg/L	U	2
Chromium	7440-47-3	0.003	0.500	0.003	mg/L	J	2
Lead	7439-92-1	0.008	0.500	0.008	mg/L	JB	2
Selenium	7782-49-2	0.017	0.500	0.007	mg/L	JB	2
Silver	7440-22-4	U	0.500	0.001	mg/L	U	2

Analytical Method: TCLP Mercury by SW1311/7470A Prep Method: SW7470P

Date Analyzed: Sep-12-08 12:00 Analyst: 4150 Date Prep: Sep-11-08 10:17 Tech: ABA
Seq Number: 734102

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Mercury	7439-97-6	U	0.0100	0.0003	mg/L	U	5

Analytical Method: TCLP SVOCs by SW-846 1311/8270C Prep Method: SW3510C

Date Analyzed: Sep-15-08 19:10 Analyst: 4147 Date Prep: Sep-15-08 09:30 Tech: 4155
Seq Number: 734357

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,4-Dichlorobenzene	106-46-7	U	100	16.1	mg/L	U	1
2,4,5-Trichlorophenol	95-95-4	U	100	26.2	mg/L	U	1
2,4,6-Trichlorophenol	88-06-2	U	100	16.4	mg/L	U	1
2,4-Dinitrotoluene	121-14-2	U	100	21.4	mg/L	U	1
2-Methylphenol	95-48-7	U	100	20.0	mg/L	U	1
3&4-Methylphenol		U	200	25.5	mg/L	U	1
Hexachlorobenzene	118-74-1	U	100	22.1	mg/L	U	1
Hexachlorobutadiene	87-68-3	U	100	17.8	mg/L	U	1
Hexachloroethane	67-72-1	U	100	23.8	mg/L	U	1
Nitrobenzene	98-95-3	U	100	14.9	mg/L	U	1
Pentachlorophenol	87-86-5	U	200	22.6	mg/L	U	1
Pyridine	110-86-1	U	100	26.5	mg/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.015

Certificate of Analytical Results 312101

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **IDW Soil**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-006**	Date Collected: **Sep-09-08 15:05**	Date Received: **Sep-09-08 15:57**

Analytical Method: TCLP VOCs by SW1311/8260B Prep Method: SW5030B

Date Analyzed: Sep-17-08 15:48 Analyst: 4124 Date Prep: Sep-17-08 06:51 Tech: 4124

Seq Number: 734474

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethene	75-35-4	U	0.050	0.0098	mg/L	U	10
1,2-Dichloroethane	107-06-2	U	0.050	0.0082	mg/L	U	10
2-Butanone (MEK)	78-93-3	U	0.50	0.013	mg/L	U	10
Benzene	71-43-2	U	0.050	0.0067	mg/L	U	10
Carbon tetrachloride	56-23-5	U	0.050	0.0089	mg/L	U	10
Chlorobenzene	108-90-7	U	0.050	0.0059	mg/L	U	10
Chloroform	67-66-3	U	0.050	0.014	mg/L	U	10
Tetrachloroethene	127-18-4	U	0.050	0.018	mg/L	U	10
Trichloroethene	79-01-6	U	0.050	0.0072	mg/L	U	10
Vinyl chloride	75-01-4	U	0.020	0.011	mg/L	U	10

Project: Xenco-Atlanta Master Project

Version: 1.015

Certificate of Analytical Results 312101

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **TBLK03308** Matrix: **WATER** % Moisture:
Lab Sample Id: **312101-007** Date Collected: **Sep-09-08 09:00** Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-16-08 19:59 Analyst: 4124 Date Prep: Sep-16-08 16:48 Tech: 4124
Seq Number: 734293

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	U	1.0	0.16	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.0	0.21	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.0	0.18	ug/L	U	1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.015

Certificate of Analytical Results 312101

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **TBLK03308** Matrix: **WATER** % Moisture:
Lab Sample Id: **312101-007** Date Collected: **Sep-09-08 09:00** Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-16-08 19:59 Analyst: 4124 Date Prep: Sep-16-08 16:48 Tech: 4124
Seq Number: 734293

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.0	0.16	ug/L	U	1
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	U	1.0	0.19	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.015

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

* Outside XENCO'S scope of NELAC Accreditation

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312101, **Project ID:** 08096

Lab Batch #: 734130 **Sample:** 312032-001 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	44.02	50.00	88	53-159	
4-Bromofluorobenzene	50.39	50.00	101	30-186	
Toluene-D8	49.85	50.00	100	70-130	

Lab Batch #: 734130 **Sample:** 312032-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	44.34	50.00	89	53-159	
4-Bromofluorobenzene	50.94	50.00	102	30-186	
Toluene-D8	49.95	50.00	100	70-130	

Lab Batch #: 734130 **Sample:** 312101-001 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49.14	50.00	98	53-159	
4-Bromofluorobenzene	50.00	50.00	100	30-186	
Toluene-D8	51.13	50.00	102	70-130	

Lab Batch #: 734130 **Sample:** 312101-002 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49.17	50.00	98	53-159	
4-Bromofluorobenzene	49.78	50.00	100	30-186	
Toluene-D8	49.29	50.00	99	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312101, **Project ID:** 08096

Lab Batch #: 734130 **Sample:** 312101-004 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49.24	50.00	98	53-159	
4-Bromofluorobenzene	50.53	50.00	101	30-186	
Toluene-D8	49.58	50.00	99	70-130	

Lab Batch #: 734130 **Sample:** 312101-005 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54.49	50.00	109	53-159	
4-Bromofluorobenzene	50.39	50.00	101	30-186	
Toluene-D8	53.37	50.00	107	70-130	

Lab Batch #: 734130 **Sample:** 515635-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	45.14	50.00	90	53-159	
4-Bromofluorobenzene	50.70	50.00	101	30-186	
Toluene-D8	49.32	50.00	99	77-124	

Lab Batch #: 734130 **Sample:** 515635-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52.73	50.00	105	53-159	
4-Bromofluorobenzene	50.78	50.00	102	30-186	
Toluene-D8	49.66	50.00	99	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312101, **Project ID:** 08096

Lab Batch #: 734291 **Sample:** 312101-001 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47.73	50.00	95	53-159	
4-Bromofluorobenzene	51.41	50.00	103	30-186	
Toluene-D8	44.24	50.00	88	70-130	

Lab Batch #: 734291 **Sample:** 312101-002 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48.98	50.00	98	53-159	
4-Bromofluorobenzene	51.22	50.00	102	30-186	
Toluene-D8	44.66	50.00	89	70-130	

Lab Batch #: 734291 **Sample:** 312476-001 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	41.37	50.00	83	53-159	
4-Bromofluorobenzene	51.28	50.00	103	30-186	
Toluene-D8	44.62	50.00	89	70-130	

Lab Batch #: 734291 **Sample:** 312476-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	40.96	50.00	82	53-159	
4-Bromofluorobenzene	51.39	50.00	103	30-186	
Toluene-D8	44.66	50.00	89	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312101, **Project ID:** 08096

Lab Batch #: 734291 **Sample:** 515718-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	41.59	50.00	83	53-159	
4-Bromofluorobenzene	51.03	50.00	102	30-186	
Toluene-D8	44.52	50.00	89	70-130	

Lab Batch #: 734291 **Sample:** 515718-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48.19	50.00	96	53-159	
4-Bromofluorobenzene	51.39	50.00	103	30-186	
Toluene-D8	44.42	50.00	89	70-130	

Lab Batch #: 734293 **Sample:** 311875-001 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	35	50.00	70	53-159	
4-Bromofluorobenzene	49	50.00	98	30-186	
Toluene-D8	47	50.00	94	77-124	

Lab Batch #: 734293 **Sample:** 311875-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	36	50.00	72	53-159	
4-Bromofluorobenzene	48	50.00	96	30-186	
Toluene-D8	47	50.00	94	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312101, **Project ID:** 08096

Lab Batch #: 734293 **Sample:** 312101-003 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	40.64	50.00	81	53-159	
4-Bromofluorobenzene	50.10	50.00	100	30-186	
Toluene-D8	47.74	50.00	95	77-124	

Lab Batch #: 734293 **Sample:** 312101-005 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	40.39	50.00	81	53-159	
4-Bromofluorobenzene	50.10	50.00	100	30-186	
Toluene-D8	48.84	50.00	98	77-124	

Lab Batch #: 734293 **Sample:** 312101-007 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	38.75	50.00	78	53-159	
4-Bromofluorobenzene	51.28	50.00	103	30-186	
Toluene-D8	46.73	50.00	93	77-124	

Lab Batch #: 734293 **Sample:** 515720-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	38	50.00	76	53-159	
4-Bromofluorobenzene	50	50.00	100	30-186	
Toluene-D8	47	50.00	94	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312101, **Project ID:** 08096

Lab Batch #: 734293 **Sample:** 515720-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	38.08	50.00	76	53-159	
4-Bromofluorobenzene	50.73	50.00	102	30-186	
Toluene-D8	46.83	50.00	94	77-124	

Lab Batch #: 734357 **Sample:** 312101-006 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP SVOCs by SW-846 1311/8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2,4,6-Tribromophenol	771000	1000000	77	32-117	
2-Fluorobiphenyl	378000	500000	76	35-96	
2-Fluorophenol	617000	1000000	62	29-87	
Nitrobenzene-d5	351000	500000	70	22-108	
Phenol-d5	538000	1000000	54	28-88	
Terphenyl-D14	556000	500000	111	18-133	

Lab Batch #: 734357 **Sample:** 312101-006 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP SVOCs by SW-846 1311/8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2,4,6-Tribromophenol	730000	1000000	73	32-117	
2-Fluorobiphenyl	336000	500000	67	35-96	
2-Fluorophenol	566000	1000000	57	29-87	
Nitrobenzene-d5	339000	500000	68	22-108	
Phenol-d5	491000	1000000	49	28-88	
Terphenyl-D14	498000	500000	100	18-133	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312101, **Project ID:** 08096

Lab Batch #: 734357 **Sample:** 312101-006 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP SVOCs by SW-846 1311/8270C Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2,4,6-Tribromophenol	463000	1000000	46	32-117	
2-Fluorobiphenyl	194000	500000	39	35-96	
2-Fluorophenol	298000	1000000	30	29-87	
Nitrobenzene-d5	183000	500000	37	22-108	
Phenol-d5	329000	1000000	33	28-88	
Terphenyl-D14	388000	500000	78	18-133	

Lab Batch #: 734357 **Sample:** 515624-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP SVOCs by SW-846 1311/8270C Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2,4,6-Tribromophenol	791000	1000000	79	32-117	
2-Fluorobiphenyl	384000	500000	77	35-96	
2-Fluorophenol	707000	1000000	71	29-87	
Nitrobenzene-d5	400000	500000	80	22-108	
Phenol-d5	622000	1000000	62	28-88	
Terphenyl-D14	626000	500000	125	18-133	

Lab Batch #: 734357 **Sample:** 515624-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP SVOCs by SW-846 1311/8270C Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2,4,6-Tribromophenol	786000	1000000	79	32-117	
2-Fluorobiphenyl	389000	500000	78	35-96	
2-Fluorophenol	700000	1000000	70	29-87	
Nitrobenzene-d5	396000	500000	79	22-108	
Phenol-d5	598000	1000000	60	28-88	
Terphenyl-D14	660000	500000	132	18-133	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312101, **Project ID:** 08096

Lab Batch #: 734474 **Sample:** 312101-006 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48	50	96	53-159	
4-Bromofluorobenzene	52	50	104	30-186	
Toluene-D8	44	50	88	77-124	

Lab Batch #: 734474 **Sample:** 312228-008 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	41	50	82	53-159	
4-Bromofluorobenzene	52	50	104	30-186	
Toluene-D8	44	50	88	77-124	

Lab Batch #: 734474 **Sample:** 312228-008 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	42	50	84	53-159	
4-Bromofluorobenzene	52	50	104	30-186	
Toluene-D8	44	50	88	77-124	

Lab Batch #: 734474 **Sample:** 515818-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	43	50	86	53-159	
4-Bromofluorobenzene	51	50	102	30-186	
Toluene-D8	44	50	88	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312101, **Project ID:** 08096

Lab Batch #: 734474 **Sample:** 515818-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48	50	96	53-159	
4-Bromofluorobenzene	52	50	104	30-186	
Toluene-D8	43	50	86	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 312101 **Project ID:** 08096

Lab Batch #: 734130 **Sample:** 515635-1-BKS **Matrix:** Water
Date Analyzed: 09/13/2008 **Date Prepared:** 09/13/2008 **Analyst:** NTR
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.0	50	42	84	70-130	
Benzene	<1.0	50	43	86	80-120	
Chlorobenzene	<1.0	50	43	86	80-120	
Toluene	<1.0	50	42	84	75-120	
Trichloroethene	<1.0	50	44	88	70-125	

Lab Batch #: 734291 **Sample:** 515718-1-BKS **Matrix:** Water
Date Analyzed: 09/16/2008 **Date Prepared:** 09/16/2008 **Analyst:** NTR
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.0	50	52	104	70-130	
Benzene	<1.0	50	48	96	80-120	
Chlorobenzene	<1.0	50	48	96	80-120	
Toluene	<1.0	50	48	96	75-120	
Trichloroethene	<1.0	50	46	92	70-125	

Lab Batch #: 734293 **Sample:** 515720-1-BKS **Matrix:** Water
Date Analyzed: 09/16/2008 **Date Prepared:** 09/16/2008 **Analyst:** 4124
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.0	50	46	92	70-130	
Benzene	<1.0	50	43	86	80-120	
Chlorobenzene	<1.0	50	41	82	80-120	
Toluene	<1.0	50	42	84	75-120	
Trichloroethene	<1.0	50	42	84	70-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 312101 **Project ID:** 08096

Lab Batch #: 734357 **Sample:** 515624-1-BKS **Matrix:** Water
Date Analyzed: 09/16/2008 **Date Prepared:** 09/15/2008 **Analyst:** 4147
Reporting Units: mg/L **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

TCLP SVOCs by SW-846 1311/8270C Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,4-Dichlorobenzene	<100	500	393	79	10-87	
2,4-Dinitrotoluene	<100	500	356	71	23-124	
Pentachlorophenol	<200	1000	402	40	22-120	

Lab Batch #: 734474 **Sample:** 515818-1-BKS **Matrix:** Water
Date Analyzed: 09/17/2008 **Date Prepared:** 09/17/2008 **Analyst:** 4124
Reporting Units: mg/L **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

TCLP VOCs by SW1311/8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<0.050	0.50	0.50	100	70-130	
1,2-Dichloroethane	<0.050	0.50	0.48	96	70-130	
2-Butanone (MEK)	<0.50	1.0	1.1	110	30-150	
Benzene	<0.050	0.50	0.46	92	80-120	
Carbon tetrachloride	<0.050	0.50	0.50	100	65-140	
Chlorobenzene	<0.050	0.50	0.47	94	80-120	
Chloroform	<0.050	0.50	0.46	92	65-135	
Tetrachloroethene	<0.050	0.50	0.46	92	45-150	
Trichloroethene	<0.050	0.50	0.53	106	70-125	
Vinyl chloride	<0.020	0.50	0.53	106	50-145	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 312101 **Project ID:** 08096

Analyst: 4154 **Date Prepared:** 09/10/2008 **Date Analyzed:** 09/15/2008

Lab Batch ID: 734170 **Sample:** 515657-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BOD by SM5210B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	<2.00	200	187	94	200	191	96	2	70-120	20	

Analyst: SBA **Date Prepared:** 09/10/2008 **Date Analyzed:** 09/10/2008

Lab Batch ID: 733955 **Sample:** 733955-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chemical Oxygen Demand by SM 5220D Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	<10	200	210	105	200	220	110	5	71-128	20	

Analyst: 4150 **Date Prepared:** 09/10/2008 **Date Analyzed:** 09/11/2008

Lab Batch ID: 733922 **Sample:** 515438-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	0.023	11.0	9.70	88	11	9.73	88	0	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 312101 **Project ID:** 08096

Analyst: SNL **Date Prepared:** 09/12/2008 **Date Analyzed:** 09/12/2008

Lab Batch ID: 734167 **Sample:** 734167-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by SW-846 9056 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<1.0	10	9.1	91	10	9.2	92	1	70-125	20	
Sulfate	<1.0	10	9.0	90	10	9.1	91	1	70-125	20	

Analyst: 4150 **Date Prepared:** 09/10/2008 **Date Analyzed:** 09/11/2008

Lab Batch ID: 733894 **Sample:** 515442-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Metals, Total by SW846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.005	1.00	0.959	96	1	0.956	96	0	75-125	20	
Barium	<0.050	1.00	0.973	97	1	0.973	97	0	75-125	20	
Cadmium	<0.005	1.00	0.996	100	1	0.995	100	0	75-125	20	
Chromium	<0.050	1.00	0.995	100	1	0.998	100	0	75-125	20	
Copper	0.002	1.00	0.989	99	1	0.989	99	0	75-125	20	
Lead	<0.010	1.00	0.983	98	1	0.985	99	0	75-125	20	
Selenium	<0.010	1.00	0.979	98	1	0.979	98	0	75-125	20	
Sodium	<5.00	9.00	10.2	113	9	10.2	113	0	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 312101 **Project ID:** 08096

Analyst: 4150 **Date Prepared:** 09/11/2008 **Date Analyzed:** 09/12/2008

Lab Batch ID: 734106 **Sample:** 515476-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TCLP Metals by SW-846 1311/6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.028	4.00	4.10	103	4	3.99	100	3	75-125	20	
Barium	0.009	4.00	3.79	95	4	3.71	93	2	75-125	20	
Cadmium	<0.500	4.00	3.88	97	4	3.80	95	2	75-125	20	
Chromium	<0.500	4.00	3.91	98	4	3.83	96	2	75-125	20	
Lead	0.016	4.00	3.78	95	4	3.70	93	2	75-125	20	
Selenium	<0.500	4.00	4.26	107	4	4.14	104	3	75-125	20	
Silver	<0.500	4.00	4.00	100	4	3.92	98	2	75-125	20	

Analyst: 4150 **Date Prepared:** 09/11/2008 **Date Analyzed:** 09/12/2008

Lab Batch ID: 734102 **Sample:** 515478-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TCLP Mercury by SW1311/7470A Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	<0.0100	0.0250	0.0252	101	0.025	0.0247	99	2	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 312101 **Project ID:** 08096

Lab Batch ID: 733955 **QC- Sample ID:** 312101-001 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 09/10/2008 **Date Prepared:** 09/10/2008 **Analyst:** SBA
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chemical Oxygen Demand by SM 5220D Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	16	200	240	112	200	230	107	5	71-128	20	

Lab Batch ID: 733922 **QC- Sample ID:** 311894-005 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	11.0	9.93	90	11.0	10.6	96	6	75-125	20	

Lab Batch ID: 734167 **QC- Sample ID:** 312032-001 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 09/12/2008 **Date Prepared:** 09/12/2008 **Analyst:** SNL
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by SW-846 9056 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	5.4	10	14	86	10	14	86	0	70-125	20	
Sulfate	<1.0	10	15	150	10	15	150	0	70-125	20	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 312101 **Project ID:** 08096

Lab Batch ID: 733894 **QC- Sample ID:** 312032-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Metals, Total by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.010	1.00	0.976	98	1.00	1.01	101	3	75-125	20	
Barium	0.017	1.00	0.996	98	1.00	1.02	100	2	75-125	20	
Cadmium	<0.005	1.00	1.00	100	1.00	1.03	103	3	75-125	20	
Chromium	<0.050	1.00	1.01	101	1.00	1.03	103	2	75-125	20	
Copper	0.003	1.00	1.00	100	1.00	1.02	102	2	75-125	20	
Lead	<0.010	1.00	0.989	99	1.00	1.01	101	2	75-125	20	
Selenium	0.003	1.00	0.995	99	1.00	1.02	102	3	75-125	20	
Sodium	9.02	9.00	18.3	103	9.00	18.8	109	6	75-125	20	

Lab Batch ID: 734130 **QC- Sample ID:** 312032-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/13/2008 **Date Prepared:** 09/13/2008 **Analyst:** NTR

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<1.0	50	44	88	50	42	84	5	70-130	20	
Benzene	<1.0	50	44	88	50	43	86	2	80-120	20	
Chlorobenzene	<1.0	50	42	84	50	41	82	2	80-120	20	
Toluene	<1.0	50	43	86	50	41	82	5	75-120	20	
Trichloroethene	<1.0	50	46	92	50	44	88	4	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 312101 **Project ID:** 08096

Lab Batch ID: 734291 **QC- Sample ID:** 312476-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/16/2008 **Date Prepared:** 09/16/2008 **Analyst:** NTR

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<1.0	50	51	102	50	51	102	0	70-130	20	
Benzene	<1.0	50	48	96	50	47	94	2	80-120	20	
Chlorobenzene	<1.0	50	47	94	50	47	94	0	80-120	20	
Toluene	<1.0	50	48	96	50	47	94	2	75-120	20	
Trichloroethene	<1.0	50	55	110	50	44	88	22	70-125	20	F

Lab Batch ID: 734293 **QC- Sample ID:** 311875-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/17/2008 **Date Prepared:** 09/16/2008 **Analyst:** 4124

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<5.0	50	45	90	50	47	94	4	70-130	20	
Benzene	<5.0	50	47	94	50	46	92	2	80-120	20	
Chlorobenzene	7.3	50	47	79	50	47	79	0	80-120	20	X
Toluene	<5.0	50	56	112	50	48	96	15	75-120	20	
Trichloroethene	<5.0	50	44	88	50	44	88	0	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 312101 **Project ID:** 08096

Lab Batch ID: 734106 **QC- Sample ID:** 312101-006 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/12/2008 **Date Prepared:** 09/11/2008 **Analyst:** 4150

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCLP Metals by SW-846 1311/6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.015	4.00	4.03	100	4.00	4.05	101	1	75-125	20	
Barium	0.925	4.00	4.52	90	4.00	4.52	90	0	75-125	20	
Cadmium	<0.500	4.00	3.79	95	4.00	3.81	95	0	75-125	20	
Chromium	<0.500	4.00	3.81	95	4.00	3.85	96	1	75-125	20	
Lead	<0.500	4.00	3.68	92	4.00	3.72	93	1	75-125	20	
Selenium	0.017	4.00	4.16	104	4.00	4.18	104	0	75-125	20	
Silver	<0.500	4.00	3.91	98	4.00	3.95	99	1	75-125	20	

Lab Batch ID: 734102 **QC- Sample ID:** 312101-006 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/12/2008 **Date Prepared:** 09/11/2008 **Analyst:** 4150

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCLP Mercury by SW1311/7470A Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	<0.0100	0.0250	0.0244	98	0.0250	0.0243	97	1	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 312101 **Project ID:** 08096

Lab Batch ID: 734357 **QC- Sample ID:** 312101-006 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/15/2008 **Date Prepared:** 09/15/2008 **Analyst:** 4147

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCLP SVOCs by SW-846 1311/8270C Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,4-Dichlorobenzene	<100	500	287	57	500	154	31	59	10-87	30	F
2,4-Dinitrotoluene	<100	500	319	64	500	199	40	46	23-124	30	F
Pentachlorophenol	<200	1000	399	40	1000	217	22	58	22-120	30	F

Lab Batch ID: 734474 **QC- Sample ID:** 312228-008 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/17/2008 **Date Prepared:** 09/17/2008 **Analyst:** 4124

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCLP VOCs by SW1311/8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<0.050	0.50	0.51	102	0.50	0.50	100	2	70-130	20	
1,2-Dichloroethane	<0.050	0.50	0.48	96	0.50	0.49	98	2	70-130	20	
2-Butanone (MEK)	<0.50	1.0	1.0	100	1.0	1.0	100	0	30-150	20	
Benzene	<0.050	0.50	0.46	92	0.50	0.46	92	0	80-120	20	
Carbon tetrachloride	<0.050	0.50	0.43	86	0.50	0.46	92	7	65-140	20	
Chlorobenzene	<0.050	0.50	0.46	92	0.50	0.46	92	0	80-120	20	
Chloroform	<0.050	0.50	0.46	92	0.50	0.46	92	0	65-135	20	
Tetrachloroethene	<0.050	0.50	0.44	88	0.50	0.43	86	2	45-150	20	
Trichloroethene	<0.050	0.50	0.43	86	0.50	0.43	86	0	70-125	20	
Vinyl chloride	<0.020	0.50	0.51	102	0.50	0.50	100	2	50-145	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 312101

Lab Batch #: 734170 **Project ID:** 08096
Date Analyzed: 09/15/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4154
QC- Sample ID: 312032-006 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

BOD by SM5210B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	107	109	2	20	

Lab Batch #: 733955
Date Analyzed: 09/10/2008 **Date Prepared:** 09/10/2008 **Analyst:** SBA
QC- Sample ID: 312101-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Chemical Oxygen Demand by SM 5220D Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	16	21	27	20	F

Lab Batch #: 733922
Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150
QC- Sample ID: 311894-005 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Dissolved Metals by SW-846 6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	<0.100	NC	20	

Lab Batch #: 734167
Date Analyzed: 09/12/2008 **Date Prepared:** 09/12/2008 **Analyst:** SNL
QC- Sample ID: 312032-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Inorganic Anions by SW-846 9056 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	5.4	5.4	0	20	
Sulfate	0.092	6.3	194	20	F

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 312101

Lab Batch #: 733894 **Project ID:** 08096
Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150
QC- Sample ID: 312032-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Metals, Total by SW846 6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Arsenic	<0.010	<0.010	NC	20	
Barium	0.017	0.017	0	20	
Cadmium	<0.005	<0.005	NC	20	
Chromium	<0.050	<0.050	NC	20	
Copper	0.003	0.003	0	20	
Lead	<0.010	<0.010	NC	20	
Selenium	0.003	<0.010	NC	20	
Sodium	9.02	9.64	7	20	

Lab Batch #: 734106
Date Analyzed: 09/12/2008 **Date Prepared:** 09/11/2008 **Analyst:** 4150
QC- Sample ID: 312101-006 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TCLP Metals by SW-846 1311/6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Arsenic	0.015	0.027	57	20	F
Barium	0.925	1.06	14	20	
Cadmium	<0.500	<0.500	NC	20	
Chromium	<0.500	0.003	NC	20	
Lead	<0.500	0.020	NC	20	
Selenium	0.017	0.024	34	20	F
Silver	<0.500	0.001	NC	20	

Lab Batch #: 734102
Date Analyzed: 09/12/2008 **Date Prepared:** 09/11/2008 **Analyst:** 4150
QC- Sample ID: 312101-006 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TCLP Mercury by SW1311/7470A Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Mercury	<0.0100	<0.0100	NC	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

XENCO Laboratories

☐ 5757 N.W. 158th Street, Miami Lakes, Fl 33014 305-823-8500
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☒ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

☐ Philadephia/New Jersey 610-955-5649

Serial #: 218226 Page 1 of 1

Company-City: Winter - Environmental **Phone:** 404-588-3300

Lab Only: WO# 312101

Proj Name-Location ☐ Previously done at XENCO: Fashion Care **Project ID:** 8096

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Proj State: AL, FL, (GA) LA, MS, NC, NJ, PA, SC, TN, TX, UT Other **Proj. Manager (PM):** Len Dipirma

Fax Results to ☐ PM or **e-mail to:** LDipirma@Winter-Environmental.com **Fax No:** 404-223-6251

Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O Bill to:

Quote/Pricing: **P.O No:** ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA

QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

LPST No.:

Sampler Name Joe King Signature Joe King

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs BTEX-MTBE VOHs VOAs PP TCL Appdx 1 Appdx 2	Method: 8260 8021 624 524	PAHs: 8270 8100 8310 8270_SIM	TRPH by FL PRO DRO GRO MA EPH MA VPH	SVOCs: 8270 625 - (BN&AE) (TCL) (PP) (Appdx 2)	Pest. (8081 / 608) PCBs (8082 / 608) Herb. (8151 / 615)	EDB / DBCP (8011 / 504)	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	Metals Methods: 6020 / 6010 / 200.8 / 7470 / 7471	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	FL Preburn: Virgin Non-Virgin	Anions	BOD	Diss Iron	COD				TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Remarks: Sample Clean-ups are pre-approved as needed			Addn: Date Rcv by: From:	
1	MW-23D	9-9-08	1020	—	W		X	6			L	X							X				X		X	X											1
2	MW-9R	9-9-08	1055	—	W		X	6			L	X							X				X		X	X											2
3	MW-2R	9-9-08	1225	—	W		X	6			L	X							X				X		X	X											3
4	MW-11	9-9-08	1420	—	W		X	6			L	X							X				X		X	X											4
5	~~SW-3~~	~~9-8-08~~	~~1630~~	~~—~~	~~W~~		~~X~~	~~1~~			~~L~~								~~X~~																		5
6	IDW water	9-9-08	1450	—	W		X	2	V	C	L	X																									6
7	IDW Soil	9-9-08	1505	—	S	X		4			L	X				X			X																		7
8	TBLK03308	9-9-08	0900	—	W		X	2	V	C	L	X																									8
9																																					9
10																																					10

	Relinquished by (Initials and Sign)	Date & Time			Relinquished to (Initials and Sign)	Date & Time
1	1) Joe King	9-9-08	1557		2) [signature]	9/9/08 1557
2	3)				4)	
3	5)				6)	

Total Containers per COC: Cooler Temp: 5°C

All XENCO Standard Terms and Conditions Apply.

Rush Charges are Pre-Approved upon Requesting them.

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O) _____

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tedlar Bag (B), Wipe (W), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Other (O) _____

Matrix: Air (A), Product (P), Solid(S), Water (W)

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Laboratory Analysis List
Fashion Care/Executive Care Site
Winter Environmental Project No. 08096

- VOCs (soil):
  - Tetrachloroethene (PCE)
  - cis-1, 2-Dichloroethene
  - trans-1, 2-Dichloroethene
  - 1, 1-Dichloroethene (1,1-DCE)
  - Trichloroethene (TCE)
  - Vinyl Chloride (VC)
  - Benzene
  - Toluene
  - Ethylbenzene
  - Total Xylenes
  - Cyclohexane
  - Isopropylbenzene
  - 1, 1-Dichloroethane
  - Acetone
- VOCs (groundwater/surface water): TCL List plus 1,4-dioxane
- Metals (groundwater/surface water):
  - arsenic
  - barium
  - lead
  - selenium
  - cadmium
  - chromium
  - copper
- BOD & COD (groundwater/surface water)
- Anions (groundwater/surface water): sodium, chlorides, SO4

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Winter Env.

Date/ Time: 9/9/08 1557

Lab ID # : 312101

Initials: MH

Sample Receipt Checklist

#1	Temperature of cooler?				5 °C
#2	Shipping container in good condition?	YES	No	None	
#3	Samples received on ice?	YES	No	N/A	Blue/Water
#4	Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	N/A	
#6	Chain of Custody present?	YES	No		
#7	Sample instructions complete of Chain of Custody?	YES	No		
#8	Any missing/extra samples?	Yes	NO		
#9	Chain of Custody signed when relinquished/ received?	YES	No		
#10	Chain of Custody agrees with sample label(s)?	YES	No		
#11	Container label(s) legible and intact?	YES	No		
#12	Sample matrix/ properties agree with Chain of Custody?	YES	No		
#13	Samples in proper container/ bottle?	YES	No		
#14	Samples properly preserved?	YES	No	N/A	
#15	Sample container(s) intact?	YES	No		
#16	Sufficient sample amount for indicated test(s)?	YES	No		
#17	All samples received within sufficient hold time?	YES	No		
#18	Subcontract of sample(s)?	Yes	NO		
#19	VOC samples have zero headspace?	YES	No	N/A	

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 312130

for

Winter Environmental

Project Manager: Len Diprima

Fashion Care

08096

18-SEP-08

E84880

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Texas certification numbers:
Houston, TX T104704215 - Odessa/Midland, TX T104704215-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

18-SEP-08

Project Manager: **Len Diprima**
Winter Environmental
3350 Green Pointe Parkway
Norcross, GA 30092

Reference: XENCO Report No: **312130**
Fashion Care
Project Address: GA

Len Diprima:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 312130. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 312130 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

David C. Fuller
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY
Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 312130

Winter Environmental, Norcross, GA

Fashion Care

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-26	W	Sep-10-08 06:50		312130-001

Certificate of Analytical Results 312130

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-26** Matrix: **WATER** % Moisture:
Lab Sample Id: **312130-001** Date Collected: **Sep-10-08 06:50** Date Received: **Sep-10-08 07:55**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 16:24 Analyst: 4124 Date Prep: Sep-13-08 10:56 Tech: NTR
Seq Number: 734094

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	6.0	1.0	0.20	ug/L		1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	530	50	8.0	ug/L	D	50
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	4000	50	11	ug/L	D	50
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	180	1.0	0.15	ug/L		1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	230	50	9.5	ug/L	D	50
Isopropylbenzene	98-82-8	43	1.0	0.15	ug/L		1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.0	0.18	ug/L	U	1
Methylcyclohexane	108-87-2	140	1.0	0.11	ug/L		1

Project: Xenco-Atlanta Master Project

Version: 1.000

Certificate of Analytical Results 312130

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-26**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312130-001**	Date Collected: **Sep-10-08 06:50**	Date Received: **Sep-10-08 07:55**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 16:24 Analyst: 4124 Date Prep: Sep-13-08 10:56 Tech: NTR

Seq Number: 734094

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	4800	50	8.0	ug/L	D	50
Toluene	108-88-3	81	1.0	0.14	ug/L		1
trans-1,2-Dichloroethene	156-60-5	39	1.0	0.21	ug/L		1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	3400	50	9.5	ug/L	D	50
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	1000	50	9.5	ug/L	D	50
m,p-Xylenes	179601-23-1	100	2.0	0.51	ug/L		1
o-Xylene	95-47-6	8.2	1.0	0.20	ug/L		1
Xylenes, Total	1330-20-7	108.2			ug/L		1

Project: Xenco-Atlanta Master Project

Version: 1.000

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

* Outside XENCO'S scope of NELAC Accreditation

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312130, **Project ID:** 08096

Lab Batch #: 734094 **Sample:** 312019-001 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	37	50.00	74	53-159	
4-Bromofluorobenzene	49	50.00	98	30-186	
Toluene-D8	48	50.00	96	77-124	

Lab Batch #: 734094 **Sample:** 312019-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	37	50.00	74	53-159	
4-Bromofluorobenzene	48	50.00	96	30-186	
Toluene-D8	47	50.00	94	77-124	

Lab Batch #: 734094 **Sample:** 312130-001 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	37.76	50.00	76	53-159	
4-Bromofluorobenzene	50.00	50.00	100	30-186	
Toluene-D8	47.35	50.00	95	77-124	

Lab Batch #: 734094 **Sample:** 515610-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	33	50.00	66	53-159	
4-Bromofluorobenzene	50	50.00	100	30-186	
Toluene-D8	47	50.00	94	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312130, **Project ID:** 08096

Lab Batch #: 734094 **Sample:** 515610-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	34.77	50.00	70	53-159	
4-Bromofluorobenzene	48.48	50.00	96	30-186	
Toluene-D8	46.36	50.00	92	77-124	

Lab Batch #: 734293 **Sample:** 311875-001 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	35	50.00	70	53-159	
4-Bromofluorobenzene	49	50.00	98	30-186	
Toluene-D8	47	50.00	94	77-124	

Lab Batch #: 734293 **Sample:** 311875-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	36	50.00	72	53-159	
4-Bromofluorobenzene	48	50.00	96	30-186	
Toluene-D8	47	50.00	94	77-124	

Lab Batch #: 734293 **Sample:** 312130-001 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	40.55	50.00	81	53-159	
4-Bromofluorobenzene	49.63	50.00	99	30-186	
Toluene-D8	47.96	50.00	96	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312130, **Project ID:** 08096

Lab Batch #: 734293 **Sample:** 515720-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	38	50.00	76	53-159	
4-Bromofluorobenzene	50	50.00	100	30-186	
Toluene-D8	47	50.00	94	77-124	

Lab Batch #: 734293 **Sample:** 515720-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	38.08	50.00	76	53-159	
4-Bromofluorobenzene	50.73	50.00	102	30-186	
Toluene-D8	46.83	50.00	94	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 312130 **Project ID:** 08096

Lab Batch #: 734094 **Sample:** 515610-1-BKS **Matrix:** Water
Date Analyzed: 09/13/2008 **Date Prepared:** 09/13/2008 **Analyst:** 4124
Reporting Units: ug/L **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.0	50	46	92	70-130	
Benzene	<1.0	50	44	88	80-120	
Chlorobenzene	<1.0	50	43	86	80-120	
Toluene	<1.0	50	44	88	75-120	
Trichloroethene	<1.0	50	43	86	70-125	

Lab Batch #: 734293 **Sample:** 515720-1-BKS **Matrix:** Water
Date Analyzed: 09/16/2008 **Date Prepared:** 09/16/2008 **Analyst:** 4124
Reporting Units: ug/L **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.0	50	46	92	70-130	
Benzene	<1.0	50	43	86	80-120	
Chlorobenzene	<1.0	50	41	82	80-120	
Toluene	<1.0	50	42	84	75-120	
Trichloroethene	<1.0	50	42	84	70-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 312130 **Project ID:** 08096

Lab Batch ID: 734094 **QC- Sample ID:** 312019-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/13/2008 **Date Prepared:** 09/13/2008 **Analyst:** 4124

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<5.0	50	42	84	50	45	90	7	70-130	20	
Benzene	<5.0	50	44	88	50	44	88	0	80-120	20	
Chlorobenzene	<5.0	50	42	84	50	42	84	0	80-120	20	
Toluene	<5.0	50	42	84	50	42	84	0	75-120	20	
Trichloroethene	<5.0	50	40	80	50	42	84	5	70-125	20	

Lab Batch ID: 734293 **QC- Sample ID:** 311875-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/17/2008 **Date Prepared:** 09/16/2008 **Analyst:** 4124

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<5.0	50	45	90	50	47	94	4	70-130	20	
Benzene	<5.0	50	47	94	50	46	92	2	80-120	20	
Chlorobenzene	7.3	50	47	79	50	47	79	0	80-120	20	X
Toluene	<5.0	50	56	112	50	48	96	15	75-120	20	
Trichloroethene	<5.0	50	44	88	50	44	88	0	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

XENCO Laboratories

☐ 5757 N.W. 158th Street, Miami Lakes, Fl 33014 305-823-8500
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☒ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

☐ Philadephia/New Jersey 610-955-5649

Serial #: 219055 Page 1 of 1

Company-City: Winter - Environmental
Phone: 404-588-3300
Lab Only: WO# 312130
Proj Name-Location: FashionCare ☐ Previously done at XENCO
Project ID: 08096
TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.
Proj State: AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, TX, UT Other
Proj. Manager (PM): Len Dipirma.
Fax Results to ☐ PM or **e-mail to:** LDipirma@Winter-Environmental.com **Fax No:** 404-223-6251
Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O Bill to:
Quote/Pricing: **P.O No:** ☐ Call for P.O.
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA
QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)
LPST No.:
Sampler Name Joe King Signature

	Sample ID	Sampling Date	Time	Depth ft' in" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs BTEX-MTBE VOHs VOAs PP TCL Appdx 1 Appdx 2	Method: 8260 8021 624 524	PAHs: 8270 8100 8310 8270_SIM	TRPH by FL PRO DRO GRO MA EPH MA VPH	SVOCs: 8270 625 - (BN&AE) (TCL) (PP) (Appdx 2)	Pest. (8081 / 608) PCBs (8082 / 608) Herb. (8151 / 615)	EDB / DBCP (8011 / 504)	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	Metals Methods: 6020 / 6010 / 200.8 / 7470 / 7471	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	FL Preburn: Virgin Non-Virgin	TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Remarks: Sample Clean-ups are pre-approved as needed	Addn: Date Rcv by: From:
1	SB-26	9-10-08	0750	—	W		X	2	V	C	L	X															1
2																											2
3																											3
4																											4
5																											5
6																						RMC					6
7																											7
8																											8
9																											9
10																											10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) JOK	9-10-08 0754	2) RMC	9-10-08 - 7:55
3)		4)	
5)		6)	

Total Containers per COC: 2 Cooler Temp: 2°C

All XENCO Standard Terms and Conditions Apply.
Rush Charges are Pre-Approved upon Requesting them.

Preservatives: Various (**V**), HCl pH<2 (**H**), H2SO4 pH<2 (**S**), HNO3 pH<2 (**N**), Asbc Acid&NaOH (**A**), ZnAc&NaOH (**Z**), (Cool,<4C) (**C**), None (**NA**), See Label (**L**), Other (**O**) _____
Cont. Size: 4oz (**4**), 8oz (**8**), 32oz (**32**), 40ml VOA (**V**), 1L (**1**), 500ml (**5**), Tedlar Bag (**B**), Wipe (**W**), Other _____ **Cont. Type:** Glass Amb (**A**), Glass Clear (**C**), Plastic (**P**), Other (**O**) _____
Matrix: Air (A), Product (P), Solid(S), Water (W)

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Laboratory Analysis List
Fashion Care/Executive Care Site
Winter Environmental Project No. 08096

- VOCs (soil):
  - Tetrachloroethene (PCE)
  - cis-1, 2-Dichloroethene
  - trans-1, 2-Dichloroethene
  - 1, 1-Dichloroethene (1,1-DCE)
  - Trichloroethene (TCE)
  - Vinyl Chloride (VC)
  - Benzene
  - Toluene
  - Ethylbenzene
  - Total Xylenes
  - Cyclohexane
  - Isopropylbenzene
  - 1, 1-Dichloroethane
  - Acetone
- VOCs (groundwater/surface water): TCL List plus 1,4-dioxane
- Metals (groundwater/surface water):
  - arsenic
  - barium
  - lead
  - selenium
  - cadmium
  - chromium
  - copper
- BOD & COD (groundwater/surface water)
- Anions (groundwater/surface water): sodium, chlorides, SO4

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Winter - Environmental

Date/ Time: 09/10/08 07:55

Lab ID # : 312130

Initials: DL

Sample Receipt Checklist

#1	Temperature of cooler?			2	°C
#2	Shipping container in good condition?	YES	No	None	
#3	Samples received on ice?	YES	No	N/A	Blue/Water
#4	Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	N/A	
#6	Chain of Custody present?	YES	No		
#7	Sample instructions complete of Chain of Custody?	YES	No		
#8	Any missing/extra samples?	Yes	NO		
#9	Chain of Custody signed when relinquished/ received?	YES	No		
#10	Chain of Custody agrees with sample label(s)?	YES	No		
#11	Container label(s) legible and intact?	YES	No		
#12	Sample matrix/ properties agree with Chain of Custody?	YES	No		
#13	Samples in proper container/ bottle?	YES	No		
#14	Samples properly preserved?	YES	No	N/A	
#15	Sample container(s) intact?	YES	No		
#16	Sufficient sample amount for indicated test(s)?	YES	No		
#17	All samples received within sufficient hold time?	YES	No		
#18	Subcontract of sample(s)?	Yes	NO		
#19	VOC samples have zero headspace?	YES	No	N/A	

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 319251

for

Winter Environmental

Project Manager: Len Diprima

Fashion Care

08096

15-DEC-08

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Texas certification numbers:
Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

15-DEC-08

Project Manager: **Len Diprima**
Winter Environmental
3350 Green Pointe Parkway
Norcross, GA 30092

Reference: XENCO Report No: **319251**
Fashion Care
Project Address: GA

Len Diprima:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 319251. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 319251 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

David C. Fuller
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 319251

Winter Environmental, Norcross, GA

Fashion Care

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FMW-8	W	Dec-02-08 10:20		319251-001
FMW-8	W	Dec-02-08 10:35		319251-002
FMW-11	W	Dec-02-08 13:45		319251-003
FMW-11	W	Dec-02-08 13:55		319251-004
FMW-10	W	Dec-02-08 16:00		319251-005
DUP-1	W	Dec-02-08 00:00		319251-006
Trip blank	W	Dec-02-08 00:00		319251-007

CASE NARRATIVE SUMMARY

Client Name: ***Winter Environmental***

Project Name: ***Fashion Care***

Project ID: *08096* | *Report Date:* *15-DEC-08*

Work Order Number: *319251* | *Date Received:* *03-DEC-08*

Project Manager's Notations:

1) The Inorganic Anions by EPA 300 analysis was performed by Xenco Laboratories - Houston facility.

David C. Fuller
Project Manager

Certificate of Analytical Results 319251

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-8**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-001**	Date Collected: **Dec-02-08 10:20**	Date Received: **Dec-03-08 08:50**

Analytical Method: Alkalinity by SM2320B Prep Method:

Date Analyzed: Dec-11-08 15:30 Analyst: 4154 Date Prep: Tech: 4154
Seq Number: 743411

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Alkalinity, Total (as CaCO3)		U	4.00	1.53	mg/L	U	1

Analytical Method: Anions by EPA 300 Prep Method:

Date Analyzed: Dec-09-08 21:58 Analyst: MAB Date Prep: Tech: MAB
Seq Number: 742986 SUB: E871002 Xenco Houston

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	8.30	1.00	0.071	mg/L		2
Sulfate	14808-79-8	1.18	1.00	0.086	mg/L		2

Analytical Method: Biochemical Oxygen Demand by SM 5210B Prep Method:

Date Analyzed: Dec-03-08 17:30 Analyst: 4154 Date Prep: Tech: 4154
Seq Number: 742733

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		17.7	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Dec-04-08 09:15 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 742403

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		86	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Dec-08-08 15:57 Analyst: 4150 Date Prep: Dec-08-08 11:53 Tech: ABA
Seq Number: 742753

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	U	0.100	0.021	mg/L	U	1

Project: Fashion Care

Version: 1.008

Certificate of Analytical Results 319251

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-8**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-001**	Date Collected: **Dec-02-08 10:20**	Date Received: **Dec-03-08 08:50**

Analytical Method: RCRA Mercury by SW-846 7470A Prep Method: SW7470P

Date Analyzed: Dec-04-08 18:16 Analyst: 4150 Date Prep: Dec-04-08 14:59 Tech: 4150
Seq Number: 742400

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Mercury	7439-97-6	U	0.0020	0.0001	mg/L	U	1

Analytical Method: RCRA Metals by SW-846 6010B Prep Method: SW3010A

Date Analyzed: Dec-08-08 14:17 Analyst: 4150 Date Prep: Dec-05-08 09:49 Tech: ABA
Seq Number: 742752

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.007	mg/L	U	1
Barium	7440-39-3	0.125	0.050	0.002	mg/L		1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.008	mg/L	U	1
Silver	7440-22-4	U	0.050	0.001	mg/L	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-8**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-002**	Date Collected: **Dec-02-08 10:35**	Date Received: **Dec-03-08 08:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 00:51 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	U	1
1,4-Dioxane	123-91-1	U	20.0	8.84	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	U	1
2-Hexanone	591-78-6	31.7	2.00	0.320	ug/L		1
4-Methyl-2-pentanone (MIBK)	108-10-1	10.2	2.00	0.260	ug/L		1
Acetone	67-64-1	U	2.00	0.350	ug/L	U	1
Benzene	71-43-2	3070	50.0	8.00	ug/L	D	50
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	U	1
Carbon disulfide	75-15-0	U	1.00	0.260	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	2.36	1.00	0.210	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	U	1
Cyclohexane	110-82-7	180	1.00	0.150	ug/L		1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	U	1
Ethylbenzene	100-41-4	2720	50.0	9.50	ug/L	D	50
Isopropylbenzene	98-82-8	82.3	1.00	0.150	ug/L		1
m,p-Xylenes	179601-23-1	10100	100	25.5	ug/L	D	50
Methyl acetate	79-20-9	U	2.00	0.260	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1

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Fashion Care

Sample Id: **FMW-8**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-002**	Date Collected: **Dec-02-08 10:35**	Date Received: **Dec-03-08 08:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 00:51 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylcyclohexane	108-87-2	59.9	1.00	0.110	ug/L		1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	U	1
o-Xylene	95-47-6	4870	50.0	10.0	ug/L	D	50
Styrene	100-42-5	21.3	1.00	0.180	ug/L		1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	U	1
Toluene	108-88-3	7710	50.0	7.00	ug/L	D	50
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	U	1
Xylenes, Total	1330-20-7	14970	150		ug/L	D	50

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Sample Id: **FMW-11** Matrix: **WATER** % Moisture:
Lab Sample Id: **319251-003** Date Collected: **Dec-02-08 13:45** Date Received: **Dec-03-08 08:50**

Analytical Method: Alkalinity by SM2320B Prep Method:

Date Analyzed: Dec-11-08 15:30 Analyst: 4154 Date Prep: Tech: 4154
Seq Number: 743411

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Alkalinity, Total (as CaCO3)		U	4.00	1.53	mg/L	U	1

Analytical Method: Anions by EPA 300 Prep Method:

Date Analyzed: Dec-09-08 22:22 Analyst: MAB Date Prep: Tech: MAB
Seq Number: 742986 SUB: E871002 Xenco Houston

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	4.87	1.00	0.071	mg/L		2
Sulfate	14808-79-8	0.862	1.00	0.086	mg/L	J	2

Analytical Method: Biochemical Oxygen Demand by SM 5210B Prep Method:

Date Analyzed: Dec-03-08 17:30 Analyst: 4154 Date Prep: Tech: 4154
Seq Number: 742733

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		U	2.00	1.50	mg/L	U	1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Dec-04-08 09:15 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 742403

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		U	10	5.3	mg/L	U	1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Dec-08-08 14:28 Analyst: 4150 Date Prep: Dec-08-08 11:53 Tech: ABA
Seq Number: 742753

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	U	0.100	0.021	mg/L	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-11**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-003**	Date Collected: **Dec-02-08 13:45**	Date Received: **Dec-03-08 08:50**

Analytical Method: RCRA Mercury by SW-846 7470A Prep Method: SW7470P

Date Analyzed: Dec-04-08 18:19 Analyst: 4150 Date Prep: Dec-04-08 14:59 Tech: 4150
Seq Number: 742400

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Mercury	7439-97-6	U	0.0020	0.0001	mg/L	U	1

Analytical Method: RCRA Metals by SW-846 6010B Prep Method: SW3010A

Date Analyzed: Dec-08-08 14:28 Analyst: 4150 Date Prep: Dec-05-08 09:49 Tech: ABA
Seq Number: 742752

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.007	mg/L	U	1
Barium	7440-39-3	0.034	0.050	0.002	mg/L	J	1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.008	mg/L	U	1
Silver	7440-22-4	U	0.050	0.001	mg/L	U	1

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Fashion Care

Sample Id: **FMW-11**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-004**	Date Collected: **Dec-02-08 13:55**	Date Received: **Dec-03-08 08:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 01:20 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	U	1
1,2-Dichloroethane	107-06-2	1.52	1.00	0.180	ug/L		1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	U	1
1,4-Dioxane	123-91-1	U	20.0	8.84	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	U	1
Benzene	71-43-2	1.34	1.00	0.160	ug/L		1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	U	1
Carbon disulfide	75-15-0	U	1.00	0.260	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	2.88	1.00	0.210	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	U	1
Ethylbenzene	100-41-4	3.21	1.00	0.190	ug/L		1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	U	1
m,p-Xylenes	179601-23-1	13.8	2.00	0.510	ug/L		1
Methyl acetate	79-20-9	U	2.00	0.260	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	575	20.0	1.80	ug/L	D	10

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Fashion Care

Sample Id: **FMW-11**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-004**	Date Collected: **Dec-02-08 13:55**	Date Received: **Dec-03-08 08:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 01:20 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	U	1
o-Xylene	95-47-6	7.21	1.00	0.200	ug/L		1
Styrene	100-42-5	U	1.00	0.180	ug/L	U	1
Tetrachloroethene	127-18-4	39.4	1.00	0.160	ug/L		1
Toluene	108-88-3	5.59	1.00	0.140	ug/L		1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	U	1
Trichloroethene	79-01-6	5.73	1.00	0.190	ug/L		1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	U	1
Xylenes, Total	1330-20-7	21.01	3.00		ug/L		1

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Sample Id: **FMW-10**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-005**	Date Collected: **Dec-02-08 16:00**	Date Received: **Dec-03-08 08:50**

Analytical Method: Alkalinity by SM2320B Prep Method:

Date Analyzed: Dec-11-08 15:30 Analyst: 4154 Date Prep: Tech: 4154
Seq Number: 743411

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Alkalinity, Total (as CaCO3)		83.0	4.00	1.53	mg/L		1

Analytical Method: Anions by EPA 300 Prep Method:

Date Analyzed: Dec-09-08 22:46 Analyst: MAB Date Prep: Tech: MAB
Seq Number: 742986 SUB: E871002 Xenco Houston

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	5.22	1.00	0.071	mg/L		2
Sulfate	14808-79-8	0.116	1.00	0.086	mg/L	J	2

Analytical Method: Biochemical Oxygen Demand by SM 5210B Prep Method:

Date Analyzed: Dec-03-08 17:30 Analyst: 4154 Date Prep: Tech: 4154
Seq Number: 742733

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		3.55	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Dec-04-08 09:15 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 742403

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		9.5	10	5.3	mg/L	J	1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Dec-08-08 14:34 Analyst: 4150 Date Prep: Dec-08-08 11:53 Tech: ABA
Seq Number: 742753

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	19.1	0.100	0.021	mg/L		1

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Fashion Care

Sample Id: **FMW-10**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-005**	Date Collected: **Dec-02-08 16:00**	Date Received: **Dec-03-08 08:50**

Analytical Method: RCRA Mercury by SW-846 7470A Prep Method: SW7470P

Date Analyzed: Dec-04-08 18:22 Analyst: 4150 Date Prep: Dec-04-08 14:59 Tech: 4150
Seq Number: 742400

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Mercury	7439-97-6	U	0.0020	0.0001	mg/L	U	1

Analytical Method: RCRA Metals by SW-846 6010B Prep Method: SW3010A

Date Analyzed: Dec-08-08 14:34 Analyst: 4150 Date Prep: Dec-05-08 09:49 Tech: ABA
Seq Number: 742752

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.012	0.010	0.007	mg/L		1
Barium	7440-39-3	0.093	0.050	0.002	mg/L		1
Cadmium	7440-43-9	0.002	0.005	0.001	mg/L	J	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.008	mg/L	U	1
Silver	7440-22-4	U	0.050	0.001	mg/L	U	1

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Fashion Care

Sample Id: **FMW-10** Matrix: **WATER** % Moisture:
Lab Sample Id: **319251-005** Date Collected: **Dec-02-08 16:00** Date Received: **Dec-03-08 08:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 01:49 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI
Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	U	1
1,4-Dioxane	123-91-1	U	20.0	8.84	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	U	1
Benzene	71-43-2	0.970	1.00	0.160	ug/L	J	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	U	1
Carbon disulfide	75-15-0	U	1.00	0.260	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	44.5	1.00	0.210	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	U	1
Ethylbenzene	100-41-4	0.730	1.00	0.190	ug/L	J	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	U	1
m,p-Xylenes	179601-23-1	2.88	2.00	0.510	ug/L		1
Methyl acetate	79-20-9	U	2.00	0.260	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	23.5	2.00	0.180	ug/L		1

Project: Fashion Care

Version: 1.008

Certificate of Analytical Results 319251

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-10**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-005**	Date Collected: **Dec-02-08 16:00**	Date Received: **Dec-03-08 08:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 01:49 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	U	1
o-Xylene	95-47-6	1.24	1.00	0.200	ug/L		1
Styrene	100-42-5	U	1.00	0.180	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	U	1
Toluene	108-88-3	1.40	1.00	0.140	ug/L		1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	U	1
Vinyl chloride	75-01-4	10.6	1.00	0.190	ug/L		1
Xylenes, Total	1330-20-7	4.12	3.00		ug/L		1

Project: Fashion Care

Version: 1.008

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **DUP-1**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-006**	Date Collected: **Dec-02-08 00:00**	Date Received: **Dec-03-08 08:50**

Analytical Method: RCRA Mercury by SW-846 7470A Prep Method: SW7470P

Date Analyzed: Dec-04-08 18:32 Analyst: 4150 Date Prep: Dec-04-08 14:59 Tech: 4150
Seq Number: 742400

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Mercury	7439-97-6	U	0.0020	0.0001	mg/L	U	1

Analytical Method: RCRA Metals by SW-846 6010B Prep Method: SW3010A

Date Analyzed: Dec-08-08 14:36 Analyst: 4150 Date Prep: Dec-05-08 09:49 Tech: ABA
Seq Number: 742752

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.008	0.010	0.007	mg/L	J	1
Barium	7440-39-3	0.093	0.050	0.002	mg/L		1
Cadmium	7440-43-9	0.002	0.005	0.001	mg/L	J	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Lead	7439-92-1	0.003	0.010	0.002	mg/L	J	1
Selenium	7782-49-2	U	0.010	0.008	mg/L	U	1
Silver	7440-22-4	U	0.050	0.001	mg/L	U	1

Project: Fashion Care

Version: 1.008

Certificate of Analytical Results 319251

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **DUP-1** Matrix: **WATER** % Moisture:
Lab Sample Id: **319251-006** Date Collected: **Dec-02-08 00:00** Date Received: **Dec-03-08 08:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 02:18 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI
Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	U	1
1,4-Dioxane	123-91-1	U	20.0	8.84	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	U	1
Benzene	71-43-2	0.790	1.00	0.160	ug/L	J	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	U	1
Carbon disulfide	75-15-0	U	1.00	0.260	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	44.3	1.00	0.210	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	U	1
m,p-Xylenes	179601-23-1	1.45	2.00	0.510	ug/L	J	1
Methyl acetate	79-20-9	U	2.00	0.260	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	22.0	2.00	0.180	ug/L		1

Project: Fashion Care

Version: 1.008

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **DUP-1**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-006**	Date Collected: **Dec-02-08 00:00**	Date Received: **Dec-03-08 08:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 02:18 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	U	1
o-Xylene	95-47-6	0.590	1.00	0.200	ug/L	J	1
Styrene	100-42-5	U	1.00	0.180	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	U	1
Toluene	108-88-3	0.770	1.00	0.140	ug/L	J	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	U	1
Vinyl chloride	75-01-4	10.6	1.00	0.190	ug/L		1
Xylenes, Total	1330-20-7	2.04	3.00		ug/L		1

Project: Fashion Care

Version: 1.008

Certificate of Analytical Results 319251

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **Trip blank**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-007**	Date Collected: **Dec-02-08 00:00**	Date Received: **Dec-03-08 08:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-08-08 21:59 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	U	1
1,4-Dioxane	123-91-1	U	20.0	8.84	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	U	1
Carbon disulfide	75-15-0	U	1.00	0.260	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
Methyl acetate	79-20-9	U	2.00	0.260	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1

Project: Fashion Care

Version: 1.008

Certificate of Analytical Results 319251

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **Trip blank**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-007**	Date Collected: **Dec-02-08 00:00**	Date Received: **Dec-03-08 08:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-08-08 21:59 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	U	1
Methylene chloride	75-09-2	14.5	1.00	0.420	ug/L		1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	U	1
Xylenes, Total	1330-20-7	U	3.00		ug/L	U	1

Project: Fashion Care

Version: 1.008

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 319251, **Project ID:** 08096

Lab Batch #: 742853 **Sample:** 318986-029 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	55	50.00	110	53-159	
4-Bromofluorobenzene	47	50.00	94	30-186	
Toluene-D8	50	50.00	100	70-130	

Lab Batch #: 742853 **Sample:** 318986-029 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54	50.00	108	53-159	
4-Bromofluorobenzene	48	50.00	96	30-186	
Toluene-D8	51	50.00	102	70-130	

Lab Batch #: 742853 **Sample:** 319251-002 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	60.79	50.00	122	53-159	
4-Bromofluorobenzene	45.87	50.00	92	30-186	
Toluene-D8	50.63	50.00	101	70-130	

Lab Batch #: 742853 **Sample:** 319251-004 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58.13	50.00	116	53-159	
4-Bromofluorobenzene	46.22	50.00	92	30-186	
Toluene-D8	50.83	50.00	102	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 319251, **Project ID:** 08096

Lab Batch #: 742853 **Sample:** 319251-005 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58.48	50.00	117	53-159	
4-Bromofluorobenzene	45.78	50.00	92	30-186	
Toluene-D8	50.76	50.00	102	70-130	

Lab Batch #: 742853 **Sample:** 319251-006 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58.70	50.00	117	53-159	
4-Bromofluorobenzene	46.12	50.00	92	30-186	
Toluene-D8	50.99	50.00	102	70-130	

Lab Batch #: 742853 **Sample:** 319251-007 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	59.04	50.00	118	53-159	
4-Bromofluorobenzene	46.63	50.00	93	30-186	
Toluene-D8	49.96	50.00	100	70-130	

Lab Batch #: 742853 **Sample:** 520774-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54	50.00	108	53-159	
4-Bromofluorobenzene	47	50.00	94	30-186	
Toluene-D8	51	50.00	102	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 319251, **Project ID:** 08096

Lab Batch #: 742853 **Sample:** 520774-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	59.12	50.00	118	53-159	
4-Bromofluorobenzene	46.21	50.00	92	30-186	
Toluene-D8	50.28	50.00	100	77-124	

Lab Batch #: 743155 **Sample:** 319251-002 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53.98	50.00	108	53-159	
4-Bromofluorobenzene	53.73	50.00	107	30-186	
Toluene-D8	53.75	50.00	108	70-130	

Lab Batch #: 743155 **Sample:** 319251-004 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53.43	50.00	107	53-159	
4-Bromofluorobenzene	54.87	50.00	110	30-186	
Toluene-D8	53.37	50.00	107	70-130	

Lab Batch #: 743155 **Sample:** 319341-001 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54.12	50.00	108	53-159	
4-Bromofluorobenzene	82.10	50.00	164	30-186	
Toluene-D8	56.49	50.00	113	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 319251, **Project ID:** 08096

Lab Batch #: 743155 **Sample:** 319341-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52.76	50.00	106	53-159	
4-Bromofluorobenzene	50.90	50.00	102	30-186	
Toluene-D8	50.29	50.00	101	70-130	

Lab Batch #: 743155 **Sample:** 520920-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51.75	50.00	104	53-159	
4-Bromofluorobenzene	54.16	50.00	108	30-186	
Toluene-D8	53.30	50.00	107	77-124	

Lab Batch #: 743155 **Sample:** 520920-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54.58	50.00	109	53-159	
4-Bromofluorobenzene	53.89	50.00	108	30-186	
Toluene-D8	52.71	50.00	105	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 319251 **Project ID:** 08096

Lab Batch #: 742403 **Sample:** 742403-1-BKS **Matrix:** Water
Date Analyzed: 12/04/2008 **Date Prepared:** 12/04/2008 **Analyst:**
Reporting Units: mg/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Chemical Oxygen Demand by SM 5220D Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
COD - Chemical Oxygen Demand	<10	200	210	105	71-128	

Lab Batch #: 742986 **Sample:** 742986-1-BKS **Matrix:** Water
Date Analyzed: 12/09/2008 **Date Prepared:** 12/09/2008 **Analyst:** MAB
Reporting Units: mg/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	<0.500	5.00	4.94	99	80-120	
Sulfate	<0.500	5.00	4.84	97	80-120	

Lab Batch #: 742853 **Sample:** 520774-1-BKS **Matrix:** Water
Date Analyzed: 12/08/2008 **Date Prepared:** 12/08/2008 **Analyst:** ANI
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

TCL VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.00	50	51	102	70-130	
Benzene	<1.00	50	49	98	80-120	
Chlorobenzene	<1.00	50	52	104	80-120	
Toluene	<1.00	50	50	100	75-120	
Trichloroethene	<1.00	50	47	94	70-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: **Fashion Care**

Work Order #: 319251 **Project ID:** 08096

Lab Batch #: 743155 **Sample:** 520920-1-BKS **Matrix:** Water

Date Analyzed: 12/10/2008 **Date Prepared:** 12/10/2008 **Analyst:** 4124

Reporting Units: ug/L **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.00	50.0	43.1	86	70-130	
Benzene	<1.00	50.0	50.8	102	80-120	
Chlorobenzene	<1.00	50.0	51.7	103	80-120	
Toluene	<1.00	50.0	52.5	105	75-120	
Trichloroethene	<1.00	50.0	53.0	106	70-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 319251 **Project ID:** 08096

Analyst: 4154 **Date Prepared:** 12/11/2008 **Date Analyzed:** 12/11/2008

Lab Batch ID: 743411 **Sample:** 743411-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Alkalinity by SM2320B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Alkalinity, Total (as CaCO3)	<4.00	62.5	63.0	101	62.5	63.0	101	0	80-120	20	

Analyst: 4154 **Date Prepared:** 12/03/2008 **Date Analyzed:** 12/03/2008

Lab Batch ID: 742733 **Sample:** 742733-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Biochemical Oxygen Demand by SM 5210B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	<2.00	200	201	101	200	196	98	3	70-120	20	

Analyst: 4150 **Date Prepared:** 12/08/2008 **Date Analyzed:** 12/08/2008

Lab Batch ID: 742753 **Sample:** 520697-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	9.00	9.51	106	9	9.55	106	0	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 319251 **Project ID:** 08096

Analyst: 4150 **Date Prepared:** 12/04/2008 **Date Analyzed:** 12/04/2008

Lab Batch ID: 742400 **Sample:** 520524-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

RCRA Mercury by SW-846 7470A Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	<0.0020	0.0030	0.0029	97	0.003	0.0030	100	3	75-125	20	

Analyst: 4150 **Date Prepared:** 12/05/2008 **Date Analyzed:** 12/08/2008

Lab Batch ID: 742752 **Sample:** 520570-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

RCRA Metals by SW-846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.010	1.00	0.917	92	1	0.916	92	0	75-125	20	
Barium	<0.050	1.00	0.906	91	1	0.911	91	1	75-125	20	
Cadmium	<0.005	1.00	0.916	92	1	0.921	92	1	75-125	20	
Chromium	<0.050	1.00	0.921	92	1	0.925	93	0	75-125	20	
Lead	<0.010	1.00	0.903	90	1	0.908	91	1	75-125	20	
Selenium	<0.010	1.00	0.918	92	1	0.919	92	0	75-125	20	
Silver	<0.050	1.00	0.887	89	1	0.892	89	1	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 319251 **Project ID:** 08096

Lab Batch ID: 742403 **QC- Sample ID:** 319327-001 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 12/04/2008 **Date Prepared:** 12/04/2008 **Analyst:** SBA
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chemical Oxygen Demand by SM 5220D Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	190	200	380	95	200	380	95	0	71-128	20	

Lab Batch ID: 742753 **QC- Sample ID:** 319251-001 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 12/08/2008 **Date Prepared:** 12/08/2008 **Analyst:** 4150
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	9.00	10.5	117	9.00	10.6	118	1	75-125	20	

Lab Batch ID: 742986 **QC- Sample ID:** 318390-015 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 12/09/2008 **Date Prepared:** 12/09/2008 **Analyst:** MAB
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	4.06	40.0	14.5	26	40.0	14.5	26	0	80-120	20	X
Sulfate	1.56	40.0	11.2	24	40.0	11.3	24	0	80-120	20	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 319251 **Project ID:** 08096

Lab Batch ID: 742400 **QC- Sample ID:** 319137-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 12/04/2008 **Date Prepared:** 12/04/2008 **Analyst:** 4150

Reporting Units: ug/L

RCRA Mercury by SW-846 7470A Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	<2.000	3.000	0.5203	17	3.000	0.5207	17	0	75-125	20	X

Lab Batch ID: 742752 **QC- Sample ID:** 319251-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 12/08/2008 **Date Prepared:** 12/05/2008 **Analyst:** 4150

Reporting Units: mg/L

RCRA Metals by SW-846 6010B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.010	1.00	0.923	92	1.00	0.920	92	0	75-125	20	
Barium	0.125	1.00	1.02	90	1.00	1.02	90	0	75-125	20	
Cadmium	<0.005	1.00	0.922	92	1.00	0.918	92	0	75-125	20	
Chromium	<0.050	1.00	0.928	93	1.00	0.921	92	1	75-125	20	
Lead	<0.010	1.00	0.909	91	1.00	0.903	90	1	75-125	20	
Selenium	<0.010	1.00	0.927	93	1.00	0.920	92	1	75-125	20	
Silver	<0.050	1.00	0.891	89	1.00	0.883	88	1	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 319251 **Project ID:** 08096

Lab Batch ID: 742853 **QC- Sample ID:** 318986-029 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 12/09/2008 **Date Prepared:** 12/08/2008 **Analyst:** ANI

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<5.00	50.0	49.0	98	50.0	48.0	96	2	70-130	20	
Benzene	<5.00	50.0	47.0	94	50.0	46.0	92	2	80-120	20	
Chlorobenzene	<5.00	50.0	50.0	100	50.0	48.0	96	4	80-120	20	
Toluene	<5.00	50.0	48.0	96	50.0	47.0	94	2	75-120	20	
Trichloroethene	<5.00	50.0	44.0	88	50.0	43.0	86	2	70-125	20	

Lab Batch ID: 743155 **QC- Sample ID:** 319341-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 12/10/2008 **Date Prepared:** 12/10/2008 **Analyst:** 4124

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<1.00	50.0	40.9	82	50.0	38.9	78	5	70-130	20	
Benzene	<1.00	50.0	50.1	100	50.0	47.9	96	4	80-120	20	
Chlorobenzene	<1.00	50.0	47.8	96	50.0	48.4	97	1	80-120	20	
Toluene	<1.00	50.0	64.6	129	50.0	48.0	96	29	75-120	20	XF
Trichloroethene	<1.00	50.0	51.0	102	50.0	48.0	96	6	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 319251

Lab Batch #: 743411 **Project ID:** 08096
Date Analyzed: 12/11/2008 **Date Prepared:** 12/11/2008 **Analyst:** 4154
QC- Sample ID: 318760-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Alkalinity by SM2320B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Alkalinity, Total (as CaCO3)	313	314	0	20	

Lab Batch #: 742986
Date Analyzed: 12/09/2008 **Date Prepared:** 12/09/2008 **Analyst:** MAB
QC- Sample ID: 318390-015 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Anions by EPA 300 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	4.06	4.04	0	20	
Sulfate	1.56	1.55	1	20	

Lab Batch #: 742733
Date Analyzed: 12/03/2008 **Date Prepared:** 12/03/2008 **Analyst:** 4154
QC- Sample ID: 319331-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Biochemical Oxygen Demand by SM 5210B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	2630	2660	1	20	

Lab Batch #: 742403
Date Analyzed: 12/04/2008 **Date Prepared:** 12/04/2008 **Analyst:**
QC- Sample ID: 319327-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Chemical Oxygen Demand by SM 5220D Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	190	180	5	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 319251

Lab Batch #: 742753 **Project ID:** 08096
Date Analyzed: 12/08/2008 **Date Prepared:** 12/08/2008 **Analyst:** 4150
QC- Sample ID: 319251-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Dissolved Metals by SW-846 6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	<0.100	NC	20	

Lab Batch #: 742400
Date Analyzed: 12/04/2008 **Date Prepared:** 12/04/2008 **Analyst:** 4150
QC- Sample ID: 319137-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: ug/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

RCRA Mercury by SW-846 7470A Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Mercury	<2.000	<2.000	NC	20	

Lab Batch #: 742752
Date Analyzed: 12/08/2008 **Date Prepared:** 12/05/2008 **Analyst:** 4150
QC- Sample ID: 319251-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

RCRA Metals by SW-846 6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Arsenic	<0.010	<0.010	NC	20	
Barium	0.125	0.124	1	20	
Cadmium	<0.005	<0.005	NC	20	
Chromium	<0.050	<0.050	NC	20	
Lead	<0.010	0.002	NC	20	
Selenium	<0.010	<0.010	NC	20	
Silver	<0.050	<0.050	NC	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

XENCO Laboratories

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☐ Philadephia/New Jersey 610-955-5649

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 223370

Company-City: Winter Environmental
Phone: 404 588 3300
Lab Only: WO# 319251
Proj Name-Location: Fashion Care ☐ Previously done at XENCO
Project ID: 08096
TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.
Proj State: AL, FL ,GA, LA, MS, NC, NJ, PA, SC, TN, TX , UT Other
Proj. Manager (PM): Len Diprima
Fax Results to ☐ PM or **e-mail to:** ldiprima@winter-environmental.com **Fax No:**
Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☒ Invoice must have a P.O Bill to:
Quote/Pricing: **P.O No:** 08096 ☐ Call for P.O.
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA
QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)
LPST No.:
Sampler Name Greg Muse Signature

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs BTEX-MTBE VOHs VOAs PP TCL Appdx 1 Appdx 2	Method: 8260 8021 624 524	PAHs: 8270 8100 8310 8270_SIM	TRPH by FL PRO DRO GRO MA EPH MA VPH	SVOCs: 8270 625 - (BN&AE) (TCL) (PP) (Appdx 2)	Pest. (8081 / 608) PCBs (8082 / 608) Herb. (8151 / 615)	EDB / DBCP (8011 / 504)	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	Metals Methods: 6020 / 6010 / 200.8 / 7470 / 7471	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	FL Preburn: Virgin Non-Virgin	Dissolved Fe	BOD, Anions, Alk	COD				TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Remarks: Sample Clean-ups are pre-approved as needed			Rcv by: Date Addn: From:
1	FMW-8	12/2/08	1020		W		X	4		P	HCl	X							X				X	X	X				X						1
2	FMW-8	12/2/08	1035		W		X	2		C		X																	X						2
3	FMW-11	12/2/08	1345		W		X	4		P	HCl	X							X				X	X	X				X						3
4	FMW-11	12/2/08	1355		W		X	2		C		X																	X						4
5	FMW-10	12/2/08	1600		W		X	4		P	HCl	X							X				X	X	X				X						5
6	FMW-10	12/2/08	1600		W		X	2		C		X																	X						6
7	DUP-1	12/2/08			W		X	6		P,C		X							X										X						7
8	TRIP BLANK				W			2		C		X																	X						8
9																																			9
10																																			10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) GTM	12/3/08 8:50	2) Dijana Piljak DP	12/3/08 8:50
2) 3)		4)	
3) 5)		6)	

Total Containers per COC: Cooler Temp: 4°C

All XENCO Standard Terms and Conditions Apply.
Rush Charges are Pre-Approved upon Requesting them.

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O) _____
Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tedlar Bag (B), Wipe (W), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Other (O) _____
Matrix: Air (A), Product (P), Solid(S), Water (W)

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Winter Env.

Date/ Time: 12/03/08 0850

Lab ID # : 319257

Initials: MH

Sample Receipt Checklist

#1	Temperature of cooler?				4°c
#2	Shipping container in good condition?	YES	No	None	
#3	Samples received on ice?	YES	No	N/A	Blue/Water
#4	Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	N/A	
#6	Chain of Custody present?	YES	No		
#7	Sample instructions complete of Chain of Custody?	YES	No		
#8	Any missing/extra samples?	Yes	NO		
#9	Chain of Custody signed when relinquished/ received?	YES	No		
#10	Chain of Custody agrees with sample label(s)?	YES	No		
#11	Container label(s) legible and intact?	YES	No		
#12	Sample matrix/ properties agree with Chain of Custody?	YES	No		
#13	Samples in proper container/ bottle?	YES	No		
#14	Samples properly preserved?	YES	No	N/A	
#15	Sample container(s) intact?	YES	No		
#16	Sufficient sample amount for indicated test(s)?	YES	No		
#17	All samples received within sufficient hold time?	YES	No		
#18	Subcontract of sample(s)?	Yes	NO		
#19	VOC samples have zero headspace?	YES	No	N/A	

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 319343

for

Winter Environmental

Project Manager: Len Diprima

Fashion Care

08096

17-DEC-08

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Texas certification numbers:
Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

17-DEC-08

Project Manager: **Len Diprima**
Winter Environmental
3350 Green Pointe Parkway
Norcross, GA 30092

Reference: XENCO Report No: **319343**
Fashion Care
Project Address: GA

Len Diprima:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 319343. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 319343 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

David C. Fuller
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY
Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 319343

Winter Environmental, Norcross, GA

Fashion Care

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FMW-9	W	Dec-03-08 13:15		319343-001
FMW-7	W	Dec-03-08 11:15		319343-002
Trip Blank	W	Dec-03-08 00:00		319343-003
T-1	W	Dec-03-08 14:00		319343-004

CASE NARRATIVE SUMMARY

Client Name: ***Winter Environmental***

Project Name: ***Fashion Care***

Project ID: *08096*
Work Order Number: *319343*

Report Date: *17-DEC-08*
Date Received: *03-DEC-08*

Project Manager's Notations:

1) The Inorganic Anions by EPA 300 analysis was performed by Xenco Laboratories - Houston facility.

David C. Fuller
Project Manager

Certificate of Analytical Results 319343

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-9** Matrix: **WATER** % Moisture:
Lab Sample Id: **319343-001** Date Collected: **Dec-03-08 13:15** Date Received: **Dec-03-08 15:50**

Analytical Method: Alkalinity by SM2320B Prep Method:

Date Analyzed: Dec-11-08 15:30 Analyst: 4154 Date Prep: Tech: 4154
Seq Number: 743411

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Alkalinity, Total (as CaCO3)		55.0	4.00	1.53	mg/L		1

Analytical Method: Anions by EPA 300 Prep Method:

Date Analyzed: Dec-09-08 23:10 Analyst: MAB Date Prep: Tech: MAB
Seq Number: 742986 SUB: E871002 Xenco Houston

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	7.45	1.00	0.071	mg/L		2
Sulfate	14808-79-8	3.65	1.00	0.086	mg/L		2

Analytical Method: Biochemical Oxygen Demand by SM 5210B Prep Method:

Date Analyzed: Dec-03-08 17:30 Analyst: 4154 Date Prep: Tech: 4154
Seq Number: 742733

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		U	2.00	1.50	mg/L	U	1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Dec-04-08 09:15 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 742403

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		U	10	5.3	mg/L	U	1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Dec-08-08 14:39 Analyst: 4150 Date Prep: Dec-08-08 11:53 Tech: ABA
Seq Number: 742753

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	0.109	0.100	0.021	mg/L		1

Project: Fashion Care

Version: 1.010

Certificate of Analytical Results 319343

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-9**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319343-001**	Date Collected: **Dec-03-08 13:15**	Date Received: **Dec-03-08 15:50**

Analytical Method: RCRA Mercury by SW-846 7470A Prep Method: SW7470P

Date Analyzed: Dec-04-08 18:36 Analyst: 4150 Date Prep: Dec-04-08 14:59 Tech: 4150
Seq Number: 742400

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Mercury	7439-97-6	U	0.0020	0.0001	mg/L	U	1

Analytical Method: RCRA Metals by SW-846 6010B Prep Method: SW3010A

Date Analyzed: Dec-08-08 14:39 Analyst: 4150 Date Prep: Dec-05-08 09:49 Tech: ABA
Seq Number: 742752

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.007	mg/L	U	1
Barium	7440-39-3	0.023	0.050	0.002	mg/L	J	1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	0.002	0.050	0.001	mg/L	J	1
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.008	mg/L	U	1
Silver	7440-22-4	U	0.050	0.001	mg/L	U	1

Project: Fashion Care

Version: 1.010

Certificate of Analytical Results 319343

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-9** Matrix: **WATER** % Moisture:
Lab Sample Id: **319343-001** Date Collected: **Dec-03-08 13:15** Date Received: **Dec-03-08 15:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 02:46 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI
Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	U	1
1,2-Dichloroethane	107-06-2	2.15	1.00	0.180	ug/L		1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	U	1
1,4-Dioxane	123-91-1	U	20.0	8.84	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	U	1
Benzene	71-43-2	0.650	1.00	0.160	ug/L	J	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	U	1
Carbon disulfide	75-15-0	U	1.00	0.260	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	53.4	1.00	0.210	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	U	1
Ethylbenzene	100-41-4	0.520	1.00	0.190	ug/L	J	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	U	1
m,p-Xylenes	179601-23-1	2.01	2.00	0.510	ug/L		1
Methyl acetate	79-20-9	U	2.00	0.260	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	615	20.0	1.80	ug/L	D	10

Project: Fashion Care

Version: 1.010

Certificate of Analytical Results 319343

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-9**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319343-001**	Date Collected: **Dec-03-08 13:15**	Date Received: **Dec-03-08 15:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 02:46 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	U	1
o-Xylene	95-47-6	0.840	1.00	0.200	ug/L	J	1
Styrene	100-42-5	U	1.00	0.180	ug/L	U	1
Tetrachloroethene	127-18-4	922	10.0	1.60	ug/L	D	10
Toluene	108-88-3	1.96	1.00	0.140	ug/L		1
trans-1,2-Dichloroethene	156-60-5	0.860	1.00	0.210	ug/L	J	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	U	1
Trichloroethene	79-01-6	26.2	1.00	0.190	ug/L		1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	U	1
Xylenes, Total	1330-20-7	2.85	3.00		ug/L		1

Project: Fashion Care

Version: 1.010

Certificate of Analytical Results 319343

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-7** Matrix: **WATER** % Moisture:
Lab Sample Id: **319343-002** Date Collected: **Dec-03-08 11:15** Date Received: **Dec-03-08 15:50**

Analytical Method: Alkalinity by SM2320B Prep Method:

Date Analyzed: Dec-11-08 15:30 Analyst: 4154 Date Prep: Tech: 4154
Seq Number: 743411

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Alkalinity, Total (as CaCO3)		79.0	4.00	1.53	mg/L		1

Analytical Method: Anions by EPA 300 Prep Method:

Date Analyzed: Dec-09-08 23:34 Analyst: MAB Date Prep: Tech: MAB
Seq Number: 742986 SUB: E871002 Xenco Houston

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	5.80	1.00	0.071	mg/L		2
Sulfate	14808-79-8	1.62	1.00	0.086	mg/L		2

Analytical Method: Biochemical Oxygen Demand by SM 5210B Prep Method:

Date Analyzed: Dec-03-08 17:30 Analyst: 4154 Date Prep: Tech: 4154
Seq Number: 742733

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		2.31	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Dec-04-08 09:15 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 742403

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		U	10	5.3	mg/L	U	1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Dec-08-08 14:41 Analyst: 4150 Date Prep: Dec-08-08 11:53 Tech: ABA
Seq Number: 742753

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	0.065	0.100	0.021	mg/L	J	1

Project: Fashion Care

Version: 1.010

Certificate of Analytical Results 319343

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-7**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319343-002**	Date Collected: **Dec-03-08 11:15**	Date Received: **Dec-03-08 15:50**

Analytical Method: RCRA Mercury by SW-846 7470A Prep Method: SW7470P

Date Analyzed: Dec-04-08 18:39 Analyst: 4150 Date Prep: Dec-04-08 14:59 Tech: 4150
Seq Number: 742400

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Mercury	7439-97-6	U	0.0020	0.0001	mg/L	U	1

Analytical Method: RCRA Metals by SW-846 6010B Prep Method: SW3010A

Date Analyzed: Dec-08-08 14:41 Analyst: 4150 Date Prep: Dec-05-08 09:49 Tech: ABA
Seq Number: 742752

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.007	mg/L	U	1
Barium	7440-39-3	0.059	0.050	0.002	mg/L		1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.008	mg/L	U	1
Silver	7440-22-4	U	0.050	0.001	mg/L	U	1

Project: Fashion Care

Version: 1.010

Certificate of Analytical Results 319343

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-7** Matrix: **WATER** % Moisture:
Lab Sample Id: **319343-002** Date Collected: **Dec-03-08 11:15** Date Received: **Dec-03-08 15:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-10-08 15:08 Analyst: 4124 Date Prep: Dec-10-08 08:57 Tech: 4124
Seq Number: 743155

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	U	1
1,4-Dioxane	123-91-1	U	20.0	8.84	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	U	1
Carbon disulfide	75-15-0	U	1.00	0.260	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
Methyl acetate	79-20-9	U	2.00	0.260	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1

Project: Fashion Care

Version: 1.010

Certificate of Analytical Results 319343

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-7**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319343-002**	Date Collected: **Dec-03-08 11:15**	Date Received: **Dec-03-08 15:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-10-08 15:08 Analyst: 4124 Date Prep: Dec-10-08 08:57 Tech: 4124

Seq Number: 743155

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	U	1
Xylenes, Total	1330-20-7	U	3.00		ug/L	U	1

Project: Fashion Care

Version: 1.010

Certificate of Analytical Results 319343

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **Trip Blank**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319343-003**	Date Collected: **Dec-03-08 00:00**	Date Received: **Dec-03-08 15:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 03:44 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	U	1
1,4-Dioxane	123-91-1	U	20.0	8.84	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	U	1
Carbon disulfide	75-15-0	U	1.00	0.260	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
Methyl acetate	79-20-9	U	2.00	0.260	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1

Project: Fashion Care

Version: 1.010

Certificate of Analytical Results 319343

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **Trip Blank**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319343-003**	Date Collected: **Dec-03-08 00:00**	Date Received: **Dec-03-08 15:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 03:44 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	U	1
Methylene chloride	75-09-2	13.7	1.00	0.420	ug/L		1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	U	1
Xylenes, Total	1330-20-7	U	3.00		ug/L	U	1

Project: Fashion Care

Version: 1.010

Certificate of Analytical Results 319343

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **T-1**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319343-004**	Date Collected: **Dec-03-08 14:00**	Date Received: **Dec-03-08 15:50**

Analytical Method: TCLP VOCs by SW1311/8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 04:13 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethene	75-35-4	U	0.0050	0.0010	mg/L	U	1
1,2-Dichloroethane	107-06-2	U	0.0050	0.0008	mg/L	U	1
2-Butanone (MEK)	78-93-3	U	0.050	0.0013	mg/L	U	1
Benzene	71-43-2	0.17	0.0050	0.0007	mg/L		1
Carbon tetrachloride	56-23-5	U	0.0050	0.0009	mg/L	U	1
Chlorobenzene	108-90-7	U	0.0050	0.0006	mg/L	U	1
Chloroform	67-66-3	0.0024	0.0050	0.0014	mg/L	J	1
Tetrachloroethene	127-18-4	0.015	0.0050	0.0018	mg/L		1
Trichloroethene	79-01-6	0.0015	0.0050	0.0007	mg/L	J	1
Vinyl chloride	75-01-4	0.0013	0.0020	0.0011	mg/L	J	1

Project: Fashion Care

Version: 1.010

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 319343, **Project ID:** 08096

Lab Batch #: 742853 **Sample:** 319343-001 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58.96	50.00	118	53-159	
4-Bromofluorobenzene	46.88	50.00	94	30-186	
Toluene-D8	50.39	50.00	101	70-130	

Lab Batch #: 742853 **Sample:** 319343-003 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58.92	50.00	118	53-159	
4-Bromofluorobenzene	46.33	50.00	93	30-186	
Toluene-D8	50.74	50.00	101	70-130	

Lab Batch #: 742853 **Sample:** 318986-029 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	55	50.00	110	53-159	
4-Bromofluorobenzene	47	50.00	94	30-186	
Toluene-D8	50	50.00	100	70-130	

Lab Batch #: 742853 **Sample:** 318986-029 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54	50	108	53-159	
4-Bromofluorobenzene	48	50.00	96	30-186	
Toluene-D8	51	50	102	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 319343, **Project ID:** 08096

Lab Batch #: 742853 **Sample:** 520774-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54	50	108	53-159	
4-Bromofluorobenzene	47	50	94	30-186	
Toluene-D8	51	50.00	102	77-124	

Lab Batch #: 742853 **Sample:** 520774-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	59	50	118	53-159	
4-Bromofluorobenzene	46.21	50.00	92	30-186	
Toluene-D8	50	50	100	77-124	

Lab Batch #: 743155 **Sample:** 319343-001 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53.35	50.00	107	53-159	
4-Bromofluorobenzene	53.68	50.00	107	30-186	
Toluene-D8	53.07	50.00	106	70-130	

Lab Batch #: 743155 **Sample:** 319343-002 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	57.33	50.00	115	53-159	
4-Bromofluorobenzene	54.46	50.00	109	30-186	
Toluene-D8	52.83	50.00	106	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 319343, **Project ID:** 08096

Lab Batch #: 743155 **Sample:** 319341-001 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54.12	50.00	108	53-159	
4-Bromofluorobenzene	82.10	50.00	164	30-186	
Toluene-D8	56.49	50.00	113	70-130	

Lab Batch #: 743155 **Sample:** 319341-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52.76	50	106	53-159	
4-Bromofluorobenzene	50.90	50.00	102	30-186	
Toluene-D8	50.29	50	101	70-130	

Lab Batch #: 743155 **Sample:** 520920-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51.75	50	104	53-159	
4-Bromofluorobenzene	54.16	50.00	108	30-186	
Toluene-D8	53.30	50.00	107	77-124	

Lab Batch #: 743155 **Sample:** 520920-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54.58	50.00	109	53-159	
4-Bromofluorobenzene	53.89	50.00	108	30-186	
Toluene-D8	52.71	50.00	105	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 319343, **Project ID:** 08096

Lab Batch #: 742853 **Sample:** 319343-004 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58	50	116	53-159	
4-Bromofluorobenzene	46	50	92	30-186	
Toluene-D8	51	50	102	70-130	

Lab Batch #: 743155 **Sample:** 319343-004 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	53-159	
4-Bromofluorobenzene	55	50	110	30-186	
Toluene-D8	53	50	106	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 319343 **Project ID:** 08096

Lab Batch #: 742403 **Sample:** 742403-1-BKS **Matrix:** Water
Date Analyzed: 12/04/2008 **Date Prepared:** 12/04/2008 **Analyst:**
Reporting Units: mg/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Chemical Oxygen Demand by SM 5220D Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
COD - Chemical Oxygen Demand	<10	200	210	105	71-128	

Lab Batch #: 742986 **Sample:** 742986-1-BKS **Matrix:** Water
Date Analyzed: 12/09/2008 **Date Prepared:** 12/09/2008 **Analyst:** MAB
Reporting Units: mg/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	<0.500	5.00	4.94	99	80-120	
Sulfate	<0.500	5.00	4.84	97	80-120	

Lab Batch #: 742853 **Sample:** 520774-1-BKS **Matrix:** Water
Date Analyzed: 12/08/2008 **Date Prepared:** 12/08/2008 **Analyst:** ANI
Reporting Units: mg/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

TCLP VOCs by SW1311/8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<0.0050	0.050	0.051	102	70-130	
Chlorobenzene	<0.0050	0.050	0.052	104	80-120	
Trichloroethene	0.0000	0.050	0.047	94	70-125	

Lab Batch #: 742853 **Sample:** 520774-1-BKS **Matrix:** Water
Date Analyzed: 12/08/2008 **Date Prepared:** 12/08/2008 **Analyst:** ANI
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

TCLP VOCs by SW1311/8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Benzene	0.0000	50	49	98	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 319343 **Project ID:** 08096

Lab Batch #: 743155 **Sample:** 520920-1-BKS **Matrix:** Water

Date Analyzed: 12/10/2008 **Date Prepared:** 12/10/2008 **Analyst:** 4124

Reporting Units: ug/L **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

TCLP VOCs by SW1311/8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.00	50.0	43.1	86	70-130	
Benzene	0.000	50.0	51.0	102	80-120	
Chlorobenzene	<5.0	50.0	52.0	104	80-120	
Toluene	0.000	50.0	52.5	105	75-120	
Trichloroethylene	<5.0	50.0	53.0	106	70-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 319343 **Project ID:** 08096

Analyst: 4154 **Date Prepared:** 12/11/2008 **Date Analyzed:** 12/11/2008

Lab Batch ID: 743411 **Sample:** 743411-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Alkalinity by SM2320B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Alkalinity, Total (as CaCO3)	<4.00	62.5	63.0	101	62.5	63.0	101	0	80-120	20	

Analyst: 4154 **Date Prepared:** 12/03/2008 **Date Analyzed:** 12/03/2008

Lab Batch ID: 742733 **Sample:** 742733-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Biochemical Oxygen Demand by SM 5210B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	<2.00	200	201	101	200	196	98	3	70-120	20	

Analyst: 4150 **Date Prepared:** 12/08/2008 **Date Analyzed:** 12/08/2008

Lab Batch ID: 742753 **Sample:** 520697-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	9.00	9.51	106	9	9.55	106	0	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 319343 **Project ID:** 08096

Analyst: 4150 **Date Prepared:** 12/04/2008 **Date Analyzed:** 12/04/2008

Lab Batch ID: 742400 **Sample:** 520524-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

RCRA Mercury by SW-846 7470A Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	<0.0020	0.0030	0.0029	97	0.003	0.0030	100	3	75-125	20	

Analyst: 4150 **Date Prepared:** 12/05/2008 **Date Analyzed:** 12/08/2008

Lab Batch ID: 742752 **Sample:** 520570-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

RCRA Metals by SW-846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.010	1.00	0.917	92	1	0.916	92	0	75-125	20	
Barium	<0.050	1.00	0.906	91	1	0.911	91	1	75-125	20	
Cadmium	<0.005	1.00	0.916	92	1	0.921	92	1	75-125	20	
Chromium	<0.050	1.00	0.921	92	1	0.925	93	0	75-125	20	
Lead	<0.010	1.00	0.903	90	1	0.908	91	1	75-125	20	
Selenium	<0.010	1.00	0.918	92	1	0.919	92	0	75-125	20	
Silver	<0.050	1.00	0.887	89	1	0.892	89	1	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 319343 **Project ID:** 08096

Lab Batch ID: 742403 **QC- Sample ID:** 319327-001 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 12/04/2008 **Date Prepared:** 12/04/2008 **Analyst:** SBA
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chemical Oxygen Demand by SM 5220D Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	190	200	380	95	200	380	95	0	71-128	20	

Lab Batch ID: 742753 **QC- Sample ID:** 319251-001 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 12/08/2008 **Date Prepared:** 12/08/2008 **Analyst:** 4150
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	9.00	10.5	117	9.00	10.6	118	1	75-125	20	

Lab Batch ID: 742986 **QC- Sample ID:** 318390-015 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 12/09/2008 **Date Prepared:** 12/09/2008 **Analyst:** MAB
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	4.06	40.0	14.5	26	40.0	14.5	26	0	80-120	20	X
Sulfate	1.56	40.0	11.2	24	40.0	11.3	24	0	80-120	20	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 319343 **Project ID:** 08096

Lab Batch ID: 742400 **QC- Sample ID:** 319137-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 12/04/2008 **Date Prepared:** 12/04/2008 **Analyst:** 4150

Reporting Units: ug/L

RCRA Mercury by SW-846 7470A Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	<2.000	3.000	0.5203	17	3.000	0.5207	17	0	75-125	20	X

Lab Batch ID: 742752 **QC- Sample ID:** 319251-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 12/08/2008 **Date Prepared:** 12/05/2008 **Analyst:** 4150

Reporting Units: mg/L

RCRA Metals by SW-846 6010B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.010	1.00	0.923	92	1.00	0.920	92	0	75-125	20	
Barium	0.125	1.00	1.02	90	1.00	1.02	90	0	75-125	20	
Cadmium	<0.005	1.00	0.922	92	1.00	0.918	92	0	75-125	20	
Chromium	<0.050	1.00	0.928	93	1.00	0.921	92	1	75-125	20	
Lead	<0.010	1.00	0.909	91	1.00	0.903	90	1	75-125	20	
Selenium	<0.010	1.00	0.927	93	1.00	0.920	92	1	75-125	20	
Silver	<0.050	1.00	0.891	89	1.00	0.883	88	1	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 319343 **Project ID:** 08096

Lab Batch ID: 742853 **QC- Sample ID:** 318986-029 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 12/09/2008 **Date Prepared:** 12/08/2008 **Analyst:** ANI

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCLP VOCs by SW1311/8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<5.00	50.0	49.0	98	50.0	48.0	96	2	70-130	20	
Benzene	<5.0	50	47	94	50.0	46.0	92	2	80-120	20	
Chlorobenzene	<5.0	50	50	100	50.0	48.0	96	4	80-120	20	
Trichloroethene	<5.0	50	44	88	50	43	86	2	70-125	20	

Lab Batch ID: 743155 **QC- Sample ID:** 319341-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 12/10/2008 **Date Prepared:** 12/10/2008 **Analyst:** 4124

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCLP VOCs by SW1311/8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<1.00	50.0	40.9	82	50.0	38.9	78	5	70-130	20	
Benzene	<1.00	50.0	50.1	100	50	48	96	4	80-120	20	
Chlorobenzene	<1.00	50.0	47.8	96	50.0	48.4	97	1	80-120	20	
Trichloroethylene	<1.00	50.0	51.0	102	50.0	48.0	96	6	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 319343

Lab Batch #: 743411 **Project ID:** 08096
Date Analyzed: 12/11/2008 **Date Prepared:** 12/11/2008 **Analyst:** 4154
QC- Sample ID: 318760-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Alkalinity by SM2320B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Alkalinity, Total (as CaCO3)	313	314	0	20	

Lab Batch #: 742986
Date Analyzed: 12/09/2008 **Date Prepared:** 12/09/2008 **Analyst:** MAB
QC- Sample ID: 318390-015 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Anions by EPA 300 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	4.06	4.04	0	20	
Sulfate	1.56	1.55	1	20	

Lab Batch #: 742733
Date Analyzed: 12/03/2008 **Date Prepared:** 12/03/2008 **Analyst:** 4154
QC- Sample ID: 319331-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Biochemical Oxygen Demand by SM 5210B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	2630	2660	1	20	

Lab Batch #: 742403
Date Analyzed: 12/04/2008 **Date Prepared:** 12/04/2008 **Analyst:**
QC- Sample ID: 319327-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Chemical Oxygen Demand by SM 5220D Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	190	180	5	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 319343

Lab Batch #: 742753 **Project ID:** 08096
Date Analyzed: 12/08/2008 **Date Prepared:** 12/08/2008 **Analyst:** 4150
QC- Sample ID: 319251-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Dissolved Metals by SW-846 6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	<0.100	NC	20	

Lab Batch #: 742400
Date Analyzed: 12/04/2008 **Date Prepared:** 12/04/2008 **Analyst:** 4150
QC- Sample ID: 319137-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: ug/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

RCRA Mercury by SW-846 7470A Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Mercury	<2.000	<2.000	NC	20	

Lab Batch #: 742752
Date Analyzed: 12/08/2008 **Date Prepared:** 12/05/2008 **Analyst:** 4150
QC- Sample ID: 319251-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

RCRA Metals by SW-846 6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Arsenic	<0.010	<0.010	NC	20	
Barium	0.125	0.124	1	20	
Cadmium	<0.005	<0.005	NC	20	
Chromium	<0.050	<0.050	NC	20	
Lead	<0.010	0.002	NC	20	
Selenium	<0.010	<0.010	NC	20	
Silver	<0.050	<0.050	NC	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

XENCO Laboratories

☐ 5757 N.W. 158th Street, Miami Lakes, Fl 33014 305-823-8500
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☐ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

☐ Philadephia/New Jersey 610-955-5649

Serial #: 223371

Company-City: Winter Environmental
Phone: 404 588 3300
Lab Only: WO# 319343
Proj Name-Location: Fashion Cove ☐ Previously done at XENCO
Project ID: 08096
TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.
Proj State: AL, FL ,GA, LA, MS, NC, NJ, PA, SC, TN, TX , UT Other
Proj. Manager (PM): Len DiPrima
Fax Results to ☐ PM or
e-mail to: ldiprima@winter-environmental.com
Fax No:
Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☒ Invoice must have a P.O Bill to: Len DiPrima
Quote/Pricing:
P.O No: 08096 ☐ Call for P.O.
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA
QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)
LPST No.:
Sampler Name: Greg Muse Signature:

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs BTEX-MTBE VOHs VOAs PP TCL Appdx 2	Method: 8260 8021 624 524	PAHs: 8270 8100 8310 8270_SIM	TRPH by FL PRO DRO GRO MA EPH MA VPH	SVOCs: 8270 625 - (BN&AE) (TCL) (PP) (Appdx 2)	Pest. (8081 / 608) PCBs (8082 / 608) Herb. (8151 / 615)	EDB / DBCP (8011 / 504)	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	Metals Methods: 6020 / 6010 / 200.8 / 7470 / 7471	SPLP - (TCLP) (Metals VOCs SVOCs Pest. Herb. PCBs)	FL Preburn: Virgin Non-Virgin	Dissolved Fe	BOD, Anions, Alk	COD	TAT ASAP 5h 12h 24h 48h 3d (5d) 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Remarks: Sample Clean-ups are pre-approved as needed	Addn: Date Rcv by: From:
1	FMW-9	12/3/08	1315		W		X	6		PC		X							X				X	X	X		X				1
2	FMW-7	12/3/08	1115		W		X	6		PC		X							X				X	X	X		X				2
3	TRIP BLANK	1			W			2		C		X															X				3
4	T-1	12/3/08	1400		W	X		2		C											X						X				4
5																															5
6																															6
7																															7
8																															8
9																															9
10																															10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) [signature]	12/3/08 1550	2) [signature]	12/3/08 1550
3)		4)	
5)		6)	

Total Containers per COC: Cooler Temp:

All XENCO Standard Terms and Conditions Apply.

Rush Charges are Pre-Approved upon Requesting them.

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O) _____

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tedlar Bag (B), Wipe (W), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Other (O) _____

Matrix: Air (A), Product (P), Solid(S), Water (W)

Committed to Excellence in Service and Quality www.xenco.com

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Winter

Date/ Time: 12/3/08 1550

Lab ID # : 319343

Initials: [illegible]

Sample Receipt Checklist

#1	Temperature of cooler?				5 °c
#2	Shipping container in good condition?	YES	No	None	
#3	Samples received on ice?	YES	No	N/A	Blue/Water
#4	Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	N/A	
#6	Chain of Custody present?	YES	No		
#7	Sample instructions complete of Chain of Custody?	YES	No		
#8	Any missing/extra samples?	Yes	NO		
#9	Chain of Custody signed when relinquished/ received?	YES	No		
#10	Chain of Custody agrees with sample label(s)?	YES	No		
#11	Container label(s) legible and intact?	YES	No		
#12	Sample matrix/ properties agree with Chain of Custody?	YES	No		
#13	Samples in proper container/ bottle?	YES	No		
#14	Samples properly preserved?	YES	No	N/A	
#15	Sample container(s) intact?	YES	No		
#16	Sufficient sample amount for indicated test(s)?	YES	No		
#17	All samples received within sufficient hold time?	YES	No		
#18	Subcontract of sample(s)?	Yes	NO		
#19	VOC samples have zero headspace?	YES	No	N/A	

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

January 11, 2010

Leonard Diprima
Winter Environmental
3350 Green Pointe Parkway
Norcross GA 30092

TEL: (404) 965-2323
FAX: (404) 223-6251

RE: Fashion Care

Dear Leonard Diprima: Order No: 1001115

Analytical Environmental Services, Inc. received 4 samples on January 5, 2010 3:10 pm for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

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

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

Chantelle Kanhai
Project Manager

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

CHAIN OF CUSTODY

Work Order: 1001115

37413

Date: 1-5-10 Page ____ of ____

COMPANY: Winter Environmental

ADDRESS: 3350 Green Pointe Parkway Norcross GA 30092 Suite 200

PHONE: 404 965 2323

FAX: 404 223 6251

SAMPLED BY: Joe King

SIGNATURE: Joe D K

ANALYSIS REQUESTED

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOC	BOD	Metals RCRA 8	COD	CL/SO4								REMARKS	No # of Containers
1	SW-1	1-5-10	1405	X		SW	X	X	X	X	X									6
2	SW-2	1-5-10	1420	X		SW	X	X	X	X	X									6
3	SW-3	1-5-10	1445	X		SW	X	X	X	X	X									6
4	TBLK 1510	1/5/10	1345	X		W	X													2
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Joe D King	1-5-10 1510	1: [illegible]	1/5/10
2:		2:	15:10
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: Fashion Care
PROJECT #: 08096
SITE ADDRESS:
SEND REPORT TO: Len Diprima
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers 20

Turnaround Time Request
- (●) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Date: *11-Jan-10*

CLIENT: Winter Environmental
Project: Fashion Care
Lab ID: 1001115-001

Client Sample ID: SW-1
Collection Date: 1/5/2010 2:05:00 PM
Matrix: SURFACE WATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
INORGANIC ANIONS BY IC E300.0							Analyst: **GAR**
Chloride	6.23	1.00		mg/L		1	1/6/2010 10:35 AM
Sulfate	9.20	1.00		mg/L		1	1/6/2010 10:35 AM
METALS, TOTAL SW6010C					**(SW3010A)**		Analyst: **TAA**
Arsenic	BRL	0.0500		mg/L	123518	1	1/6/2010 4:42 PM
Barium	0.0355	0.0200		mg/L	123518	1	1/6/2010 4:42 PM
Cadmium	BRL	0.0050		mg/L	123518	1	1/6/2010 4:42 PM
Chromium	BRL	0.0100		mg/L	123518	1	1/6/2010 4:42 PM
Copper	BRL	0.0100		mg/L	123518	1	1/6/2010 4:42 PM
Lead	BRL	0.0100		mg/L	123518	1	1/6/2010 4:42 PM
Selenium	BRL	0.0200		mg/L	123518	1	1/6/2010 4:42 PM
Silver	BRL	0.0100		mg/L	123518	1	1/6/2010 4:42 PM
MERCURY, TOTAL SW7470A					**(SW7470)**		Analyst: **MAW**
Mercury	BRL	0.00020		mg/L	123511	1	1/6/2010 3:14 PM
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**		Analyst: **JCT**
1,1,1-Trichloroethane	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
1,1-Dichloroethane	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
1,1-Dichloroethene	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
1,2-Dibromoethane	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
1,2-Dichloroethane	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
1,2-Dichloropropane	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
2-Butanone	BRL	50		ug/L	123524	1	1/7/2010 8:15 PM
2-Hexanone	BRL	10		ug/L	123524	1	1/7/2010 8:15 PM
4-Methyl-2-pentanone	BRL	10		ug/L	123524	1	1/7/2010 8:15 PM
Acetone	BRL	50		ug/L	123524	1	1/7/2010 8:15 PM
Benzene	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
Bromodichloromethane	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
Bromoform	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
Bromomethane	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
Carbon disulfide	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
Carbon tetrachloride	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
Chlorobenzene	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: *11-Jan-10*

CLIENT: Winter Environmental
Project: Fashion Care
Lab ID: 1001115-001

Client Sample ID: SW-1
Collection Date: 1/5/2010 2:05:00 PM
Matrix: SURFACE WATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**		Analyst: **JCT**
Chloroethane	BRL	10		ug/L	123524	1	1/7/2010 8:15 PM
Chloroform	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
Chloromethane	BRL	10		ug/L	123524	1	1/7/2010 8:15 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
Cyclohexane	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
Dibromochloromethane	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
Dichlorodifluoromethane	BRL	10		ug/L	123524	1	1/7/2010 8:15 PM
Ethylbenzene	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
Freon-113	BRL	10		ug/L	123524	1	1/7/2010 8:15 PM
Isopropylbenzene	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
m,p-Xylene	BRL	10		ug/L	123524	1	1/7/2010 8:15 PM
Methyl acetate	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
Methyl tert-butyl ether	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
Methylcyclohexane	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
Methylene chloride	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
o-Xylene	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
Styrene	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
Tetrachloroethene	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
Toluene	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
Trichloroethene	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
Trichlorofluoromethane	BRL	5.0		ug/L	123524	1	1/7/2010 8:15 PM
Vinyl chloride	BRL	2.0		ug/L	123524	1	1/7/2010 8:15 PM
Surr: 4-Bromofluorobenzene	80.2	60.1-127		%REC	123524	1	1/7/2010 8:15 PM
Surr: Dibromofluoromethane	104	79.6-126		%REC	123524	1	1/7/2010 8:15 PM
Surr: Toluene-d8	88.6	78-116		%REC	123524	1	1/7/2010 8:15 PM
BOD (5 DAY) (E405.1/SM5210B)					**(E405.1)**		Analyst: **MG**
Biochemical Oxygen Demand	BRL	5.0		mg/L	123567	1	1/6/2010 7:57 AM
CHEMICAL OXYGEN DEMAND (COD) E410.4							Analyst: **ML**
Chemical Oxygen Demand	12	10		mg/L		1	1/7/2010 8:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: *11-Jan-10*

CLIENT: Winter Environmental
Project: Fashion Care
Lab ID: 1001115-002

Client Sample ID: SW-2
Collection Date: 1/5/2010 2:20:00 PM
Matrix: SURFACE WATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
INORGANIC ANIONS BY IC E300.0							Analyst: **GAR**
Chloride	6.40	1.00		mg/L		1	1/6/2010 10:50 AM
Sulfate	9.78	1.00		mg/L		1	1/6/2010 10:50 AM
METALS, TOTAL SW6010C					**(SW3010A)**		Analyst: **TAA**
Arsenic	BRL	0.0500		mg/L	123518	1	1/6/2010 4:47 PM
Barium	0.222	0.0200		mg/L	123518	1	1/6/2010 4:47 PM
Cadmium	BRL	0.0050		mg/L	123518	1	1/6/2010 4:47 PM
Chromium	0.0556	0.0100		mg/L	123518	1	1/6/2010 4:47 PM
Copper	0.0389	0.0100		mg/L	123518	1	1/6/2010 4:47 PM
Lead	0.0419	0.0100		mg/L	123518	1	1/6/2010 4:47 PM
Selenium	BRL	0.0200		mg/L	123518	1	1/6/2010 4:47 PM
Silver	BRL	0.0100		mg/L	123518	1	1/6/2010 4:47 PM
MERCURY, TOTAL SW7470A					**(SW7470)**		Analyst: **MAW**
Mercury	BRL	0.00020		mg/L	123511	1	1/6/2010 4:05 PM
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**		Analyst: **JCT**
1,1,1-Trichloroethane	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
1,1-Dichloroethane	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
1,1-Dichloroethene	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
1,2-Dibromoethane	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
1,2-Dichloroethane	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
1,2-Dichloropropane	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
2-Butanone	BRL	50		ug/L	123524	1	1/7/2010 6:50 PM
2-Hexanone	BRL	10		ug/L	123524	1	1/7/2010 6:50 PM
4-Methyl-2-pentanone	BRL	10		ug/L	123524	1	1/7/2010 6:50 PM
Acetone	BRL	50		ug/L	123524	1	1/7/2010 6:50 PM
Benzene	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
Bromodichloromethane	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
Bromoform	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
Bromomethane	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
Carbon disulfide	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
Carbon tetrachloride	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
Chlorobenzene	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: *11-Jan-10*

CLIENT: Winter Environmental
Project: Fashion Care
Lab ID: 1001115-002

Client Sample ID: SW-2
Collection Date: 1/5/2010 2:20:00 PM
Matrix: SURFACE WATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**		Analyst: **JCT**
Chloroethane	BRL	10		ug/L	123524	1	1/7/2010 6:50 PM
Chloroform	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
Chloromethane	BRL	10		ug/L	123524	1	1/7/2010 6:50 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
Cyclohexane	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
Dibromochloromethane	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
Dichlorodifluoromethane	BRL	10		ug/L	123524	1	1/7/2010 6:50 PM
Ethylbenzene	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
Freon-113	BRL	10		ug/L	123524	1	1/7/2010 6:50 PM
Isopropylbenzene	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
m,p-Xylene	BRL	10		ug/L	123524	1	1/7/2010 6:50 PM
Methyl acetate	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
Methyl tert-butyl ether	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
Methylcyclohexane	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
Methylene chloride	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
o-Xylene	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
Styrene	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
Tetrachloroethene	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
Toluene	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
Trichloroethene	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
Trichlorofluoromethane	BRL	5.0		ug/L	123524	1	1/7/2010 6:50 PM
Vinyl chloride	BRL	2.0		ug/L	123524	1	1/7/2010 6:50 PM
Surr: 4-Bromofluorobenzene	82.6	60.1-127		%REC	123524	1	1/7/2010 6:50 PM
Surr: Dibromofluoromethane	104	79.6-126		%REC	123524	1	1/7/2010 6:50 PM
Surr: Toluene-d8	86.5	78-116		%REC	123524	1	1/7/2010 6:50 PM
BOD (5 DAY) (E405.1/SM5210B)					**(E405.1)**		Analyst: **MG**
Biochemical Oxygen Demand	BRL	5.0		mg/L	123567	1	1/6/2010 7:57 AM
CHEMICAL OXYGEN DEMAND (COD) E410.4							Analyst: **ML**
Chemical Oxygen Demand	35	10		mg/L		1	1/7/2010 8:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: *11-Jan-10*

CLIENT: Winter Environmental
Project: Fashion Care
Lab ID: 1001115-003

Client Sample ID: SW-3
Collection Date: 1/5/2010 2:45:00 PM
Matrix: SURFACE WATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
INORGANIC ANIONS BY IC E300.0							Analyst: **GAR**
Chloride	6.85	1.00		mg/L		1	1/6/2010 11:49 AM
Sulfate	9.85	1.00		mg/L		1	1/6/2010 11:49 AM
METALS, TOTAL SW6010C					**(SW3010A)**		Analyst: **TAA**
Arsenic	BRL	0.0500		mg/L	123518	1	1/6/2010 4:59 PM
Barium	0.0831	0.0200		mg/L	123518	1	1/6/2010 4:59 PM
Cadmium	BRL	0.0050		mg/L	123518	1	1/6/2010 4:59 PM
Chromium	BRL	0.0100		mg/L	123518	1	1/6/2010 4:59 PM
Copper	0.0130	0.0100		mg/L	123518	1	1/6/2010 4:59 PM
Lead	0.0127	0.0100		mg/L	123518	1	1/6/2010 4:59 PM
Selenium	BRL	0.0200		mg/L	123518	1	1/6/2010 4:59 PM
Silver	BRL	0.0100		mg/L	123518	1	1/6/2010 4:59 PM
MERCURY, TOTAL SW7470A					**(SW7470)**		Analyst: **MAW**
Mercury	BRL	0.00020		mg/L	123511	1	1/6/2010 4:07 PM
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**		Analyst: **JCT**
1,1,1-Trichloroethane	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
1,1-Dichloroethane	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
1,1-Dichloroethene	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
1,2-Dibromoethane	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
1,2-Dichloroethane	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
1,2-Dichloropropane	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
2-Butanone	BRL	50		ug/L	123524	1	1/7/2010 7:18 PM
2-Hexanone	BRL	10		ug/L	123524	1	1/7/2010 7:18 PM
4-Methyl-2-pentanone	BRL	10		ug/L	123524	1	1/7/2010 7:18 PM
Acetone	BRL	50		ug/L	123524	1	1/7/2010 7:18 PM
Benzene	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
Bromodichloromethane	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
Bromoform	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
Bromomethane	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
Carbon disulfide	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
Carbon tetrachloride	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
Chlorobenzene	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: *11-Jan-10*

CLIENT: Winter Environmental
Project: Fashion Care
Lab ID: 1001115-003

Client Sample ID: SW-3
Collection Date: 1/5/2010 2:45:00 PM
Matrix: SURFACE WATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**		Analyst: **JCT**
Chloroethane	BRL	10		ug/L	123524	1	1/7/2010 7:18 PM
Chloroform	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
Chloromethane	BRL	10		ug/L	123524	1	1/7/2010 7:18 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
Cyclohexane	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
Dibromochloromethane	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
Dichlorodifluoromethane	BRL	10		ug/L	123524	1	1/7/2010 7:18 PM
Ethylbenzene	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
Freon-113	BRL	10		ug/L	123524	1	1/7/2010 7:18 PM
Isopropylbenzene	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
m,p-Xylene	BRL	10		ug/L	123524	1	1/7/2010 7:18 PM
Methyl acetate	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
Methyl tert-butyl ether	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
Methylcyclohexane	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
Methylene chloride	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
o-Xylene	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
Styrene	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
Tetrachloroethene	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
Toluene	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
Trichloroethene	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
Trichlorofluoromethane	BRL	5.0		ug/L	123524	1	1/7/2010 7:18 PM
Vinyl chloride	BRL	2.0		ug/L	123524	1	1/7/2010 7:18 PM
Surr: 4-Bromofluorobenzene	79.3	60.1-127		%REC	123524	1	1/7/2010 7:18 PM
Surr: Dibromofluoromethane	106	79.6-126		%REC	123524	1	1/7/2010 7:18 PM
Surr: Toluene-d8	86.6	78-116		%REC	123524	1	1/7/2010 7:18 PM
BOD (5 DAY) (E405.1/SM5210B)					**(E405.1)**		Analyst: **MG**
Biochemical Oxygen Demand	2.9	2.0		mg/L	123567	1	1/6/2010 7:57 AM
CHEMICAL OXYGEN DEMAND (COD) E410.4							Analyst: **ML**
Chemical Oxygen Demand	33	10		mg/L		1	1/7/2010 8:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: *11-Jan-10*

CLIENT: Winter Environmental
Project: Fashion Care
Lab ID: 1001115-004

Client Sample ID: TBLK 1510
Collection Date: 1/5/2010 1:45:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**		Analyst: **JCT**
1,1,1-Trichloroethane	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
1,1-Dichloroethane	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
1,1-Dichloroethene	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
1,2-Dibromoethane	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
1,2-Dichloroethane	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
1,2-Dichloropropane	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
2-Butanone	BRL	50		ug/L	123524	1	1/7/2010 7:47 PM
2-Hexanone	BRL	10		ug/L	123524	1	1/7/2010 7:47 PM
4-Methyl-2-pentanone	BRL	10		ug/L	123524	1	1/7/2010 7:47 PM
Acetone	BRL	50		ug/L	123524	1	1/7/2010 7:47 PM
Benzene	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
Bromodichloromethane	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
Bromoform	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
Bromomethane	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
Carbon disulfide	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
Carbon tetrachloride	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
Chlorobenzene	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
Chloroethane	BRL	10		ug/L	123524	1	1/7/2010 7:47 PM
Chloroform	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
Chloromethane	BRL	10		ug/L	123524	1	1/7/2010 7:47 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
Cyclohexane	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
Dibromochloromethane	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
Dichlorodifluoromethane	BRL	10		ug/L	123524	1	1/7/2010 7:47 PM
Ethylbenzene	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
Freon-113	BRL	10		ug/L	123524	1	1/7/2010 7:47 PM
Isopropylbenzene	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
m,p-Xylene	BRL	10		ug/L	123524	1	1/7/2010 7:47 PM
Methyl acetate	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
Methyl tert-butyl ether	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
Methylcyclohexane	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
Methylene chloride	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: *11-Jan-10*

CLIENT: Winter Environmental
Project: Fashion Care
Lab ID: 1001115-004

Client Sample ID: TBLK 1510
Collection Date: 1/5/2010 1:45:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**		Analyst: **JCT**
o-Xylene	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
Styrene	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
Tetrachloroethene	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
Toluene	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
Trichloroethene	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
Trichlorofluoromethane	BRL	5.0		ug/L	123524	1	1/7/2010 7:47 PM
Vinyl chloride	BRL	2.0		ug/L	123524	1	1/7/2010 7:47 PM
Surr: 4-Bromofluorobenzene	77.9	60.1-127		%REC	123524	1	1/7/2010 7:47 PM
Surr: Dibromofluoromethane	107	79.6-126		%REC	123524	1	1/7/2010 7:47 PM
Surr: Toluene-d8	86.6	78-116		%REC	123524	1	1/7/2010 7:47 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Winter Env. Work Order Number 1001115

Checklist completed by [signature] 1/5/10
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

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

Cooler #1 3.3°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by PT

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Analytical Environmental Services, Inc

Date: 11-Jan-10

Client: Winter Environmental
Project: Fashion Care
Lab Order: 1001115

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1001115-001A	SW-1	1/5/2010 2:05:00PM	Surface Water	TCL VOLATILE ORGANICS		01/06/2010	01/06/2010
1001115-001A	SW-1	1/5/2010 2:05:00PM	Surface Water	TCL VOLATILE ORGANICS		01/06/2010	01/07/2010
1001115-001B	SW-1	1/5/2010 2:05:00PM	Surface Water	TOTAL MERCURY		01/06/2010	01/06/2010
1001115-001B	SW-1	1/5/2010 2:05:00PM	Surface Water	TOTAL MERCURY		01/06/2010	01/06/2010
1001115-001B	SW-1	1/5/2010 2:05:00PM	Surface Water	TOTAL METALS BY ICP		01/06/2010	01/06/2010
1001115-001C	SW-1	1/5/2010 2:05:00PM	Surface Water	Chemical Oxygen Demand (COD)			01/07/2010
1001115-001D	SW-1	1/5/2010 2:05:00PM	Surface Water	Inorganic Anions by IC			01/06/2010
1001115-001E	SW-1	1/5/2010 2:05:00PM	Surface Water	Biochemical Oxygen Demand (BOD)		01/06/2010	01/06/2010
1001115-002A	SW-2	1/5/2010 2:20:00PM	Surface Water	TCL VOLATILE ORGANICS		01/06/2010	01/06/2010
1001115-002A	SW-2	1/5/2010 2:20:00PM	Surface Water	TCL VOLATILE ORGANICS		01/06/2010	01/07/2010
1001115-002B	SW-2	1/5/2010 2:20:00PM	Surface Water	TOTAL MERCURY		01/06/2010	01/06/2010
1001115-002B	SW-2	1/5/2010 2:20:00PM	Surface Water	TOTAL MERCURY		01/06/2010	01/06/2010
1001115-002B	SW-2	1/5/2010 2:20:00PM	Surface Water	TOTAL METALS BY ICP		01/06/2010	01/06/2010
1001115-002C	SW-2	1/5/2010 2:20:00PM	Surface Water	Chemical Oxygen Demand (COD)			01/07/2010
1001115-002D	SW-2	1/5/2010 2:20:00PM	Surface Water	Inorganic Anions by IC			01/06/2010
1001115-002E	SW-2	1/5/2010 2:20:00PM	Surface Water	Biochemical Oxygen Demand (BOD)		01/06/2010	01/06/2010
1001115-003A	SW-3	1/5/2010 2:45:00PM	Surface Water	TCL VOLATILE ORGANICS		01/06/2010	01/06/2010
1001115-003A	SW-3	1/5/2010 2:45:00PM	Surface Water	TCL VOLATILE ORGANICS		01/06/2010	01/07/2010
1001115-003B	SW-3	1/5/2010 2:45:00PM	Surface Water	TOTAL MERCURY		01/06/2010	01/06/2010
1001115-003B	SW-3	1/5/2010 2:45:00PM	Surface Water	TOTAL MERCURY		01/06/2010	01/06/2010
1001115-003B	SW-3	1/5/2010 2:45:00PM	Surface Water	TOTAL METALS BY ICP		01/06/2010	01/06/2010
1001115-003C	SW-3	1/5/2010 2:45:00PM	Surface Water	Chemical Oxygen Demand (COD)			01/07/2010
1001115-003D	SW-3	1/5/2010 2:45:00PM	Surface Water	Inorganic Anions by IC			01/06/2010
1001115-003E	SW-3	1/5/2010 2:45:00PM	Surface Water	Biochemical Oxygen Demand (BOD)		01/06/2010	01/06/2010
1001115-004A	TBLK 1510	1/5/2010 1:45:00PM	Aqueous	TCL VOLATILE ORGANICS		01/06/2010	01/06/2010
1001115-004A	TBLK 1510	1/5/2010 1:45:00PM	Aqueous	TCL VOLATILE ORGANICS		01/06/2010	01/07/2010

CLIENT: Winter Environmental
Work Order: 1001115
Project: Fashion Care

ANALYTICAL QC SUMMARY REPORT

TestCode: Inorganic Anions by IC E300.0

Sample ID: **MB-R163235** SampType: **MBLK** Batch ID: **R163235** Units: **mg/L** Prep Date: RunNo: **163235**
Client ID: TestCode: **Inorganic Anions by IC E300.0** Analysis Date: **1/6/2010** SeqNo: **3377633**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	BRL	1.00	0	0	0	0	0	0	0		
Sulfate	BRL	1.00	0	0	0	0	0	0	0		

Sample ID: **LCS-R163235** SampType: **LCS** Batch ID: **R163235** Units: **mg/L** Prep Date: RunNo: **163235**
Client ID: TestCode: **Inorganic Anions by IC E300.0** Analysis Date: **1/6/2010** SeqNo: **3377632**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	10.67	1.00	10	0.3125	104	90	110	0	0		
Sulfate	26.84	1.00	25	0.1339	107	90	110	0	0		

Sample ID: **1001120-007DMS** SampType: **MS** Batch ID: **R163235** Units: **mg/L** Prep Date: RunNo: **163235**
Client ID: TestCode: **Inorganic Anions by IC E300.0** Analysis Date: **1/6/2010** SeqNo: **3377635**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	14.68	1.00	10	4.576	101	90	110	0	0		
Sulfate	26.64	1.00	25	0.3005	105	90	110	0	0		

Sample ID: **1001129-003AMS** SampType: **MS** Batch ID: **R163235** Units: **mg/L** Prep Date: RunNo: **163235**
Client ID: TestCode: **Inorganic Anions by IC E300.0** Analysis Date: **1/6/2010** SeqNo: **3377644**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	22.79	1.00	10	12.69	101	90	110	0	0		
Sulfate	37.78	1.00	25	10.34	110	90	110	0	0		

Qualifiers:

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

CLIENT: Winter Environmental
Work Order: 1001115
Project: Fashion Care

ANALYTICAL QC SUMMARY REPORT

TestCode: Inorganic Anions by IC E300.0

Sample ID: **1001120-007DMSD** SampType: **MSD** Batch ID: **R163235** Units: **mg/L** Prep Date: RunNo: **163235**
Client ID: TestCode: **Inorganic Anions by IC E300.0** Analysis Date: **1/6/2010** SeqNo: **3377636**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	14.91	1.00	10	4.576	103	90	110	14.68	1.57	20	
Sulfate	26.54	1.00	25	0.3005	105	90	110	26.64	0.373	20	

Qualifiers:

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

CLIENT: Winter Environmental
Work Order: 1001115
Project: Fashion Care

ANALYTICAL QC SUMMARY REPORT

TestCode: BOD (5 day) (E405.1/SM5210B)

Sample ID: **MB-123567** SampType: **MBLK** Batch ID: **123567** Units: **mg/L** Prep Date: **1/6/2010** RunNo: **163313**
Client ID: TestCode: **BOD (5 day) (E405.1/SM5210B)** Analysis Date: **1/6/2010** SeqNo: **3379162**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	BRL	0.200									

Sample ID: **LCS-123567** SampType: **LCS** Batch ID: **123567** Units: **mg/L** Prep Date: **1/6/2010** RunNo: **163313**
Client ID: TestCode: **BOD (5 day) (E405.1/SM5210B)** Analysis Date: **1/6/2010** SeqNo: **3379163**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	207.7	5.00	198	0	105	85	115	0	0		

Sample ID: **LCSD-123567** SampType: **LCSD** Batch ID: **123567** Units: **mg/L** Prep Date: **1/6/2010** RunNo: **163313**
Client ID: TestCode: **BOD (5 day) (E405.1/SM5210B)** Analysis Date: **1/6/2010** SeqNo: **3379185**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	205.6	5.00	198	0	104	85	115	207.7	1.02	20	

Qualifiers:

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

CLIENT: Winter Environmental
Work Order: 1001115
Project: Fashion Care

ANALYTICAL QC SUMMARY REPORT

TestCode: Chemical Oxygen Demand (COD) E410.4

Sample ID: **MB-R163168** SampType: **MBLK** Batch ID: **R163168** Units: **mg/L** Prep Date: RunNo: **163168**
Client ID: TestCode: **Chemical Oxygen Demand (COD) E410.4** Analysis Date: **1/7/2010** SeqNo: **3376515**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	BRL	10.0									

Sample ID: **LCS-R163168** SampType: **LCS** Batch ID: **R163168** Units: **mg/L** Prep Date: RunNo: **163168**
Client ID: TestCode: **Chemical Oxygen Demand (COD) E410.4** Analysis Date: **1/7/2010** SeqNo: **3376516**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	503.3	10.0	500	0	101	90	110	0	0		

Sample ID: **1001107-009BMS** SampType: **MS** Batch ID: **R163168** Units: **mg/L** Prep Date: RunNo: **163168**
Client ID: TestCode: **Chemical Oxygen Demand (COD) E410.4** Analysis Date: **1/7/2010** SeqNo: **3376818**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	395.6	12.5	375	21.15	99.8	90	110	0	0		

Sample ID: **1001115-002CMS** SampType: **MS** Batch ID: **R163168** Units: **mg/L** Prep Date: RunNo: **163168**
Client ID: **SW-2** TestCode: **Chemical Oxygen Demand (COD) E410.4** Analysis Date: **1/7/2010** SeqNo: **3376820**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	392.7	12.5	375	11.92	102	90	110	0	0		

Sample ID: **1001107-009BMSD** SampType: **MSD** Batch ID: **R163168** Units: **mg/L** Prep Date: RunNo: **163168**
Client ID: TestCode: **Chemical Oxygen Demand (COD) E410.4** Analysis Date: **1/7/2010** SeqNo: **3376819**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	401.3	12.5	375	21.15	101	90	110	395.6	1.45	30	

Qualifiers:

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

CLIENT: Winter Environmental
Work Order: 1001115
Project: Fashion Care

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS, TOTAL SW6010C

Sample ID: **MB-123518** SampType: **MBLK** Batch ID: **123518** Units: **mg/L** Prep Date: **1/6/2010** RunNo: **163046**
Client ID: TestCode: **METALS, TOTAL SW6010C** Analysis Date: **1/6/2010** SeqNo: **3376442**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	BRL	0.0500	0	0	0	0	0	0	0		
Barium	BRL	0.0200	0	0	0	0	0	0	0		
Cadmium	BRL	0.00500	0	0	0	0	0	0	0		
Chromium	BRL	0.0100	0	0	0	0	0	0	0		
Copper	BRL	0.0100	0	0	0	0	0	0	0		
Lead	BRL	0.0100	0	0	0	0	0	0	0		
Selenium	BRL	0.0200	0	0	0	0	0	0	0		
Silver	BRL	0.0100	0	0	0	0	0	0	0		

Sample ID: **LCS-123518** SampType: **LCS** Batch ID: **123518** Units: **mg/L** Prep Date: **1/6/2010** RunNo: **163046**
Client ID: TestCode: **METALS, TOTAL SW6010C** Analysis Date: **1/6/2010** SeqNo: **3376441**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.077	0.0500	1	0	108	85	115	0	0		
Barium	1.036	0.0200	1	0	104	85	115	0	0		
Cadmium	1.034	0.00500	1	0	103	85	115	0	0		
Chromium	1.036	0.0100	1	0.0007791	104	85	115	0	0		
Copper	1.032	0.0100	1	0.001735	103	85	115	0	0		
Lead	1.043	0.0100	1	0	104	85	115	0	0		
Selenium	1.059	0.0200	1	0	106	85	115	0	0		
Silver	0.1038	0.0100	0.1	0	104	85	115	0	0		

Sample ID: **1001081-001AMS** SampType: **MS** Batch ID: **123518** Units: **mg/L** Prep Date: **1/6/2010** RunNo: **163046**
Client ID: TestCode: **METALS, TOTAL SW6010C** Analysis Date: **1/6/2010** SeqNo: **3376444**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.057	0.0500	1	0	106	75	125	0	0		
Barium	1.048	0.0200	1	0.03264	102	75	125	0	0		

Qualifiers:

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

CLIENT: Winter Environmental
Work Order: 1001115
Project: Fashion Care

ANALYTICAL QC SUMMARY REPORT

TestCode: METALS, TOTAL SW6010C

Sample ID: **1001081-001AMS** SampType: **MS** Batch ID: **123518** Units: **mg/L** Prep Date: **1/6/2010** RunNo: **163046**
Client ID: TestCode: **METALS, TOTAL SW6010C** Analysis Date: **1/6/2010** SeqNo: **3376444**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	1.014	0.00500	1	0	101	75	125	0	0		
Chromium	1.03	0.0100	1	0.003493	103	75	125	0	0		
Copper	1.027	0.0100	1	0.004048	102	75	125	0	0		
Lead	1.017	0.0100	1	0	102	75	125	0	0		
Selenium	1.036	0.0200	1	0	104	75	125	0	0		
Silver	0.1047	0.0100	0.1	0	105	75	125	0	0		

Sample ID: **1001081-001AMSD** SampType: **MSD** Batch ID: **123518** Units: **mg/L** Prep Date: **1/6/2010** RunNo: **163046**
Client ID: TestCode: **METALS, TOTAL SW6010C** Analysis Date: **1/6/2010** SeqNo: **3376445**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.067	0.0500	1	0	107	75	125	1.057	0.887	20	
Barium	1.065	0.0200	1	0.03264	103	75	125	1.048	1.55	20	
Cadmium	1.03	0.00500	1	0	103	75	125	1.014	1.50	20	
Chromium	1.048	0.0100	1	0.003493	104	75	125	1.03	1.70	20	
Copper	1.044	0.0100	1	0.004048	104	75	125	1.027	1.62	20	
Lead	1.034	0.0100	1	0	103	75	125	1.017	1.70	20	
Selenium	1.055	0.0200	1	0	106	75	125	1.036	1.84	20	
Silver	0.1056	0.0100	0.1	0	106	75	125	0.1047	0.862	20	

Qualifiers:

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

CLIENT: Winter Environmental
Work Order: 1001115
Project: Fashion Care

ANALYTICAL QC SUMMARY REPORT

TestCode: Mercury, Total SW7470A

Sample ID: **MB-123511** SampType: **MBLK** Batch ID: **123511** Units: **mg/L** Prep Date: **1/6/2010** RunNo: **163151**
Client ID: TestCode: **Mercury, Total SW7470A** Analysis Date: **1/6/2010** SeqNo: **3376326**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	BRL	0.000200	0	0	0	0	0	0	0		

Sample ID: **LCS-123511** SampType: **LCS** Batch ID: **123511** Units: **mg/L** Prep Date: **1/6/2010** RunNo: **163151**
Client ID: TestCode: **Mercury, Total SW7470A** Analysis Date: **1/6/2010** SeqNo: **3376327**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.005539	0.000200	0.005	0.0001506	108	85	115	0	0		

Sample ID: **1001115-001BMS** SampType: **MS** Batch ID: **123511** Units: **mg/L** Prep Date: **1/6/2010** RunNo: **163151**
Client ID: **SW-1** TestCode: **Mercury, Total SW7470A** Analysis Date: **1/6/2010** SeqNo: **3376330**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.005542	0.000200	0.005	0.0001564	108	70	130	0	0		

Sample ID: **1001115-001BMSD** SampType: **MSD** Batch ID: **123511** Units: **mg/L** Prep Date: **1/6/2010** RunNo: **163151**
Client ID: **SW-1** TestCode: **Mercury, Total SW7470A** Analysis Date: **1/6/2010** SeqNo: **3376333**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.005529	0.000200	0.005	0.0001564	107	70	130	0.005542	0.246	20	

Qualifiers:

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

CLIENT: Winter Environmental
Work Order: 1001115
Project: Fashion Care

ANALYTICAL QC SUMMARY REPORT

TestCode: TCL VOLATILE ORGANICS SW8260B

Sample ID: **MB-123524** SampType: **MBLK** Batch ID: **123524** Units: **ug/L** Prep Date: **1/6/2010** RunNo: **163198**
Client ID: TestCode: **TCL VOLATILE ORGANICS SW8260B** Analysis Date: **1/7/2010** SeqNo: **3377051**

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

Qualifiers:

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

CLIENT: Winter Environmental
Work Order: 1001115
Project: Fashion Care

ANALYTICAL QC SUMMARY REPORT

TestCode: TCL VOLATILE ORGANICS SW8260B

Sample ID: **MB-123524** SampType: **MBLK** Batch ID: **123524** Units: **ug/L** Prep Date: **1/6/2010** RunNo: **163198**
Client ID: TestCode: **TCL VOLATILE ORGANICS SW8260B** Analysis Date: **1/7/2010** SeqNo: **3377051**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	40.47	0	50	0	80.9	60.1	127	0	0		
Surr: Dibromofluoromethane	51.21	0	50	0	102	79.6	126	0	0		
Surr: Toluene-d8	42.36	0	50	0	84.7	78	116	0	0		

Qualifiers:

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

CLIENT: Winter Environmental
Work Order: 1001115
Project: Fashion Care

ANALYTICAL QC SUMMARY REPORT

TestCode: TCL VOLATILE ORGANICS SW8260B

Sample ID: **LCS-123524** SampType: **LCS** Batch ID: **123524** Units: **ug/L** Prep Date: **1/6/2010** RunNo: **163198**
Client ID: TestCode: **TCL VOLATILE ORGANICS SW8260B** Analysis Date: **1/7/2010** SeqNo: **3377049**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	57.05	5.0	50	0	114	61.4	146	0	0		
Benzene	42.35	5.0	50	0	84.7	72.8	131	0	0		
Chlorobenzene	49.66	5.0	50	0	99.3	76	123	0	0		
Toluene	41.92	5.0	50	0	83.8	74.7	128	0	0		
Trichloroethene	46.37	5.0	50	0	92.7	74.4	130	0	0		
Surr: 4-Bromofluorobenzene	42.44	0	50	0	84.9	60.1	127	0	0		
Surr: Dibromofluoromethane	46.67	0	50	0	93.3	79.6	126	0	0		
Surr: Toluene-d8	40.26	0	50	0	80.5	78	116	0	0		

Sample ID: **1001120-002AMS** SampType: **MS** Batch ID: **123524** Units: **ug/L** Prep Date: **1/6/2010** RunNo: **163198**
Client ID: TestCode: **TCL VOLATILE ORGANICS SW8260B** Analysis Date: **1/7/2010** SeqNo: **3377138**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	63.56	5.0	50	0	127	48.8	172	0	0		
Benzene	45.52	5.0	50	0	91	64.5	143	0	0		
Chlorobenzene	50.96	5.0	50	0	102	74.5	129	0	0		
Toluene	45.87	5.0	50	0	91.7	62	145	0	0		
Trichloroethene	49.38	5.0	50	0	98.8	70.3	140	0	0		
Surr: 4-Bromofluorobenzene	40.38	0	50	0	80.8	60.1	127	0	0		
Surr: Dibromofluoromethane	49.94	0	50	0	99.9	79.6	126	0	0		
Surr: Toluene-d8	41.13	0	50	0	82.3	78	116	0	0		

Sample ID: **1001120-002AMSD** SampType: **MSD** Batch ID: **123524** Units: **ug/L** Prep Date: **1/6/2010** RunNo: **163198**
Client ID: TestCode: **TCL VOLATILE ORGANICS SW8260B** Analysis Date: **1/7/2010** SeqNo: **3377139**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	61.54	5.0	50	0	123	48.8	172	63.56	3.23	21.6	
Benzene	45.34	5.0	50	0	90.7	64.5	143	45.52	0.396	18.3	

Qualifiers:

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

CLIENT: Winter Environmental
Work Order: 1001115
Project: Fashion Care

ANALYTICAL QC SUMMARY REPORT

TestCode: TCL VOLATILE ORGANICS SW8260B

Sample ID: **1001120-002AMSD** SampType: **MSD** Batch ID: **123524** Units: **ug/L** Prep Date: **1/6/2010** RunNo: **163198**
Client ID: TestCode: **TCL VOLATILE ORGANICS SW8260B** Analysis Date: **1/7/2010** SeqNo: **3377139**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	49.57	5.0	50	0	99.1	74.5	129	50.96	2.77	19.2	
Toluene	45.05	5.0	50	0	90.1	62	145	45.87	1.80	21.2	
Trichloroethene	48.03	5.0	50	0	96.1	70.3	140	49.38	2.77	20.3	
Surr: 4-Bromofluorobenzene	39.44	0	50	0	78.9	60.1	127	40.38	0	0	
Surr: Dibromofluoromethane	50.28	0	50	0	101	79.6	126	49.94	0	0	
Surr: Toluene-d8	41.86	0	50	0	83.7	78	116	41.13	0	0	

Qualifiers:

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

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

July 24, 2012

Leonard Diprima
Winter Environmental
3350 Green Pointe Parkway, Suite 200
Norcross GA 30092

TEL: (404) 965-2323
FAX: (404) 223-6251

RE: Fashion Care

Dear Leonard Diprima: Order No: 1207894

Analytical Environmental Services, Inc. received 25 samples on 7/13/2012 2:30:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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

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

Chantelle Kanhai
Project Manager

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

CHAIN OF CUSTODY

Work Order: 1207894

Date: 7-10-12 Page 1 of 2

COMPANY: Winter Environmental

ADDRESS: 3350 Green Pointe Parkway Norcross GA 30019 Suite 200

PHONE: 404-586-3300

FAX:

SAMPLED BY: JDK

SIGNATURE: [signature]

ANALYSIS REQUESTED: VOC's (TCL)

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOC's (TCL)	REMARKS	No # of Containers
1	FMW-16	7-10-12	1218	X		GW	X		2
2	FMW-15	7-10-12	1348	X		GW	X		2
3	FMW-13	7-10-12	1455	X		GW	X		2
4	FMW-9	7-10-12	1545	X		GW	X		2
5	FMW-1	7-11-12	0758	X		GW	X		2
6	FMW-8	7-11-12	0857	X		GW	X		2
7	FMW-2	7-11-12	0958	X		GW	X		2
8	FMW-14	7-11-12	1110	X		GW	X		2
9	SW-3	7-11-12	1200	X	JDK	~~GW~~ SW	X		2
10	FMW-10	7-11-12	1203	X		GW	X		2
11	FMW-6	7-11-12	1245	X		GW	X		2
12	SW-2	7-11-12	1355	X	JDK	~~GW~~ SW	X		2
13	SW-1	7-11-12	1410	X	JDK	~~GW~~ SW	X		2
14	FMW-5	7-11-12	1415	X		GW	X		2

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: JDK	7/13/12 1430	1: [signature]	7/13/12 2:30
2:		2:	
3:		3:	

PROJECT INFORMATION
PROJECT NAME: Fashion Care
PROJECT #: 80946
SITE ADDRESS:
SEND REPORT TO: Len Dipring
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers: 28

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

STATE PROGRAM (if any):
E-mail? Y / N, Fax? Y / N
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

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

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

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

CHAIN OF CUSTODY

Work Order: 1207894

Date: 7-11-12 Page 2 of 2

COMPANY: Winter Environmental

ADDRESS: 3350 Green Point Parkway Norcross GA 30092 Suite 200

PHONE: 404 588 3300

FAX:

SAMPLED BY: SDK

SIGNATURE:

ANALYSIS REQUESTED: VOC (TCL)

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOC (TCL)	REMARKS	No # of Containers
1	FMW-11	7-11-12	1508	X		GW	X		2
2	FMW-3	7-12-12	0816	X		GW	X		2
3	FMW-7	7-12-12	0925	X		GW	X		2
4	FMW-~~12~~ SDK 4	7-12-12	1025	X		GW	X		2
5	FMW-12	7-12-12	1137	X		GW	X		2
6	SB-24	7-13-12	1305	X		GW	X		2
7	SB-26	7-13-12	1323	X		GW	X		2
8	Dup 1	7-11-12		X		GW	X		2
9	Trip Blank	7-10-12	1120	X		W	X		2
10	IDW-1 (water)	7-13-12	1340	X		GW	X		2
11	IDW-2 (water)	7-13-12	1350	X		GW	X		2
12									
13									
14									

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	7-13-12/1430	1:	7/13/12 2:30
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: Fashion Cafe
PROJECT #: 8096
SITE ADDRESS:
SEND REPORT TO: Len Digirma
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers 22

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

STATE PROGRAM (if any):
E-mail? Y / N, Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 5PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 24-Jul-12

Client: Winter Environmental
Project: Fashion Care
Lab ID: 1207894

Case Narrative

Sample Receiving Nonconformance:

One of the vials submitted for "SB-24" was received with headspace present as signified by >1/4 inch bubble present. We proceeded with the analysis using the remaining vial.

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 1207894-007, -018, -020 & -021 required dilution during analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-16
Project Name:	Fashion Care	**Collection Date:**	7/10/2012 12:18:00 PM
Lab ID:	1207894-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
1,1-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
1,1-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
1,2-Dibromoethane	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
1,2-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
1,2-Dichloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
2-Butanone	BRL	50		ug/L	163970	1	07/18/2012 00:35	NP
2-Hexanone	BRL	10		ug/L	163970	1	07/18/2012 00:35	NP
4-Methyl-2-pentanone	BRL	10		ug/L	163970	1	07/18/2012 00:35	NP
Acetone	BRL	50		ug/L	163970	1	07/18/2012 00:35	NP
Benzene	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
Bromodichloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
Bromoform	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
Bromomethane	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
Carbon disulfide	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
Carbon tetrachloride	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
Chlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
Chloroethane	BRL	10		ug/L	163970	1	07/18/2012 00:35	NP
Chloroform	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
Chloromethane	BRL	10		ug/L	163970	1	07/18/2012 00:35	NP
cis-1,2-Dichloroethene	9.4	5.0		ug/L	163970	1	07/18/2012 00:35	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
Cyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
Dibromochloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
Dichlorodifluoromethane	BRL	10		ug/L	163970	1	07/18/2012 00:35	NP
Ethylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
Freon-113	BRL	10		ug/L	163970	1	07/18/2012 00:35	NP
Isopropylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
m,p-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
Methyl acetate	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
Methylcyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
Methylene chloride	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
o-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-16
Project Name:	Fashion Care	**Collection Date:**	7/10/2012 12:18:00 PM
Lab ID:	1207894-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
Tetrachloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
Toluene	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
Trichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
Trichlorofluoromethane	BRL	5.0		ug/L	163970	1	07/18/2012 00:35	NP
Vinyl chloride	BRL	2.0		ug/L	163970	1	07/18/2012 00:35	NP
Surr: 4-Bromofluorobenzene	84.8	67.4-123		%REC	163970	1	07/18/2012 00:35	NP
Surr: Dibromofluoromethane	118	75.5-128		%REC	163970	1	07/18/2012 00:35	NP
Surr: Toluene-d8	91.1	70-120		%REC	163970	1	07/18/2012 00:35	NP

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-15
Project Name:	Fashion Care	**Collection Date:**	7/10/2012 1:48:00 PM
Lab ID:	1207894-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
1,1-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
1,1-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
1,2-Dibromoethane	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
1,2-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
1,2-Dichloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
2-Butanone	BRL	50		ug/L	163970	1	07/18/2012 01:03	NP
2-Hexanone	BRL	10		ug/L	163970	1	07/18/2012 01:03	NP
4-Methyl-2-pentanone	BRL	10		ug/L	163970	1	07/18/2012 01:03	NP
Acetone	BRL	50		ug/L	163970	1	07/18/2012 01:03	NP
Benzene	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
Bromodichloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
Bromoform	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
Bromomethane	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
Carbon disulfide	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
Carbon tetrachloride	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
Chlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
Chloroethane	BRL	10		ug/L	163970	1	07/18/2012 01:03	NP
Chloroform	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
Chloromethane	BRL	10		ug/L	163970	1	07/18/2012 01:03	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
Cyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
Dibromochloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
Dichlorodifluoromethane	BRL	10		ug/L	163970	1	07/18/2012 01:03	NP
Ethylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
Freon-113	BRL	10		ug/L	163970	1	07/18/2012 01:03	NP
Isopropylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
m,p-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
Methyl acetate	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
Methylcyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
Methylene chloride	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
o-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-15
Project Name:	Fashion Care	**Collection Date:**	7/10/2012 1:48:00 PM
Lab ID:	1207894-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
Tetrachloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
Toluene	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
Trichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
Trichlorofluoromethane	BRL	5.0		ug/L	163970	1	07/18/2012 01:03	NP
Vinyl chloride	3.2	2.0		ug/L	163970	1	07/18/2012 01:03	NP
Surr: 4-Bromofluorobenzene	90.8	67.4-123		%REC	163970	1	07/18/2012 01:03	NP
Surr: Dibromofluoromethane	117	75.5-128		%REC	163970	1	07/18/2012 01:03	NP
Surr: Toluene-d8	90.3	70-120		%REC	163970	1	07/18/2012 01:03	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-13
Project Name:	Fashion Care	**Collection Date:**	7/10/2012 2:55:00 PM
Lab ID:	1207894-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
1,1-Dichloroethane	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
1,1-Dichloroethene	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
1,2-Dibromoethane	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
1,2-Dichloroethane	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
1,2-Dichloropropane	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
2-Butanone	BRL	50		ug/L	163970	1	07/17/2012 23:38	NP
2-Hexanone	BRL	10		ug/L	163970	1	07/17/2012 23:38	NP
4-Methyl-2-pentanone	BRL	10		ug/L	163970	1	07/17/2012 23:38	NP
Acetone	BRL	50		ug/L	163970	1	07/17/2012 23:38	NP
Benzene	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
Bromodichloromethane	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
Bromoform	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
Bromomethane	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
Carbon disulfide	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
Carbon tetrachloride	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
Chlorobenzene	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
Chloroethane	BRL	10		ug/L	163970	1	07/17/2012 23:38	NP
Chloroform	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
Chloromethane	BRL	10		ug/L	163970	1	07/17/2012 23:38	NP
cis-1,2-Dichloroethene	78	5.0		ug/L	163970	1	07/17/2012 23:38	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
Cyclohexane	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
Dibromochloromethane	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
Dichlorodifluoromethane	BRL	10		ug/L	163970	1	07/17/2012 23:38	NP
Ethylbenzene	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
Freon-113	BRL	10		ug/L	163970	1	07/17/2012 23:38	NP
Isopropylbenzene	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
m,p-Xylene	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
Methyl acetate	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
Methyl tert-butyl ether	27	5.0		ug/L	163970	1	07/17/2012 23:38	NP
Methylcyclohexane	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
Methylene chloride	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
o-Xylene	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-13
Project Name:	Fashion Care	**Collection Date:**	7/10/2012 2:55:00 PM
Lab ID:	1207894-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
Tetrachloroethene	230	50		ug/L	163970	10	07/18/2012 13:53	NP
Toluene	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
Trichloroethene	54	5.0		ug/L	163970	1	07/17/2012 23:38	NP
Trichlorofluoromethane	BRL	5.0		ug/L	163970	1	07/17/2012 23:38	NP
Vinyl chloride	BRL	2.0		ug/L	163970	1	07/17/2012 23:38	NP
Surr: 4-Bromofluorobenzene	78.4	67.4-123		%REC	163970	1	07/17/2012 23:38	NP
Surr: 4-Bromofluorobenzene	84.5	67.4-123		%REC	163970	10	07/18/2012 13:53	NP
Surr: Dibromofluoromethane	109	75.5-128		%REC	163970	1	07/17/2012 23:38	NP
Surr: Dibromofluoromethane	115	75.5-128		%REC	163970	10	07/18/2012 13:53	NP
Surr: Toluene-d8	87.2	70-120		%REC	163970	1	07/17/2012 23:38	NP
Surr: Toluene-d8	92.5	70-120		%REC	163970	10	07/18/2012 13:53	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-9
Project Name:	Fashion Care	**Collection Date:**	7/10/2012 3:45:00 PM
Lab ID:	1207894-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
1,1-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
1,1-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
1,2-Dibromoethane	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
1,2-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
1,2-Dichloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
2-Butanone	BRL	50		ug/L	163970	1	07/18/2012 02:01	NP
2-Hexanone	BRL	10		ug/L	163970	1	07/18/2012 02:01	NP
4-Methyl-2-pentanone	BRL	10		ug/L	163970	1	07/18/2012 02:01	NP
Acetone	BRL	50		ug/L	163970	1	07/18/2012 02:01	NP
Benzene	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
Bromodichloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
Bromoform	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
Bromomethane	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
Carbon disulfide	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
Carbon tetrachloride	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
Chlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
Chloroethane	BRL	10		ug/L	163970	1	07/18/2012 02:01	NP
Chloroform	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
Chloromethane	BRL	10		ug/L	163970	1	07/18/2012 02:01	NP
cis-1,2-Dichloroethene	720	50		ug/L	163970	10	07/17/2012 22:11	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
Cyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
Dibromochloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
Dichlorodifluoromethane	BRL	10		ug/L	163970	1	07/18/2012 02:01	NP
Ethylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
Freon-113	BRL	10		ug/L	163970	1	07/18/2012 02:01	NP
Isopropylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
m,p-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
Methyl acetate	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
Methyl tert-butyl ether	400	50		ug/L	163970	10	07/17/2012 22:11	NP
Methylcyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
Methylene chloride	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
o-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-9
Project Name:	Fashion Care	**Collection Date:**	7/10/2012 3:45:00 PM
Lab ID:	1207894-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
Tetrachloroethene	1800	100		ug/L	163970	20	07/18/2012 13:25	NP
Toluene	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
trans-1,2-Dichloroethene	10.0	5.0		ug/L	163970	1	07/18/2012 02:01	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
Trichloroethene	130	5.0		ug/L	163970	1	07/18/2012 02:01	NP
Trichlorofluoromethane	BRL	5.0		ug/L	163970	1	07/18/2012 02:01	NP
Vinyl chloride	BRL	2.0		ug/L	163970	1	07/18/2012 02:01	NP
Surr: 4-Bromofluorobenzene	77.2	67.4-123		%REC	163970	1	07/18/2012 02:01	NP
Surr: 4-Bromofluorobenzene	78.9	67.4-123		%REC	163970	10	07/17/2012 22:11	NP
Surr: 4-Bromofluorobenzene	81.1	67.4-123		%REC	163970	20	07/18/2012 13:25	NP
Surr: Dibromofluoromethane	104	75.5-128		%REC	163970	20	07/18/2012 13:25	NP
Surr: Dibromofluoromethane	99.5	75.5-128		%REC	163970	1	07/18/2012 02:01	NP
Surr: Dibromofluoromethane	108	75.5-128		%REC	163970	10	07/17/2012 22:11	NP
Surr: Toluene-d8	84.7	70-120		%REC	163970	1	07/18/2012 02:01	NP
Surr: Toluene-d8	87.6	70-120		%REC	163970	10	07/17/2012 22:11	NP
Surr: Toluene-d8	91.7	70-120		%REC	163970	20	07/18/2012 13:25	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-1
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 7:58:00 AM
Lab ID:	1207894-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
1,1-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
1,1-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
1,2-Dibromoethane	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
1,2-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
1,2-Dichloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
2-Butanone	BRL	50		ug/L	163970	1	07/18/2012 03:27	NP
2-Hexanone	BRL	10		ug/L	163970	1	07/18/2012 03:27	NP
4-Methyl-2-pentanone	BRL	10		ug/L	163970	1	07/18/2012 03:27	NP
Acetone	BRL	50		ug/L	163970	1	07/18/2012 03:27	NP
Benzene	1200	250		ug/L	163970	50	07/17/2012 21:14	NP
Bromodichloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
Bromoform	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
Bromomethane	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
Carbon disulfide	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
Carbon tetrachloride	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
Chlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
Chloroethane	BRL	10		ug/L	163970	1	07/18/2012 03:27	NP
Chloroform	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
Chloromethane	BRL	10		ug/L	163970	1	07/18/2012 03:27	NP
cis-1,2-Dichloroethene	180	5.0		ug/L	163970	1	07/18/2012 03:27	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
Cyclohexane	190	5.0		ug/L	163970	1	07/18/2012 03:27	NP
Dibromochloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
Dichlorodifluoromethane	BRL	10		ug/L	163970	1	07/18/2012 03:27	NP
Ethylbenzene	630	250		ug/L	163970	50	07/17/2012 21:14	NP
Freon-113	BRL	10		ug/L	163970	1	07/18/2012 03:27	NP
Isopropylbenzene	44	5.0		ug/L	163970	1	07/18/2012 03:27	NP
m,p-Xylene	1900	250		ug/L	163970	50	07/17/2012 21:14	NP
Methyl acetate	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
Methyl tert-butyl ether	1100	250		ug/L	163970	50	07/17/2012 21:14	NP
Methylcyclohexane	110	5.0		ug/L	163970	1	07/18/2012 03:27	NP
Methylene chloride	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
o-Xylene	770	250		ug/L	163970	50	07/17/2012 21:14	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-1
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 7:58:00 AM
Lab ID:	1207894-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
Tetrachloroethene	9.7	5.0		ug/L	163970	1	07/18/2012 03:27	NP
Toluene	3300	250		ug/L	163970	50	07/17/2012 21:14	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
Trichloroethene	12	5.0		ug/L	163970	1	07/18/2012 03:27	NP
Trichlorofluoromethane	BRL	5.0		ug/L	163970	1	07/18/2012 03:27	NP
Vinyl chloride	55	2.0		ug/L	163970	1	07/18/2012 03:27	NP
Surr: 4-Bromofluorobenzene	96.6	67.4-123		%REC	163970	50	07/17/2012 21:14	NP
Surr: 4-Bromofluorobenzene	105	67.4-123		%REC	163970	1	07/18/2012 03:27	NP
Surr: Dibromofluoromethane	105	75.5-128		%REC	163970	50	07/17/2012 21:14	NP
Surr: Dibromofluoromethane	86.2	75.5-128		%REC	163970	1	07/18/2012 03:27	NP
Surr: Toluene-d8	92.2	70-120		%REC	163970	50	07/17/2012 21:14	NP
Surr: Toluene-d8	98.8	70-120		%REC	163970	1	07/18/2012 03:27	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-8
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 8:57:00 AM
Lab ID:	1207894-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
1,1-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
1,1-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
1,2-Dibromoethane	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
1,2-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
1,2-Dichloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
2-Butanone	BRL	50		ug/L	163970	1	07/18/2012 03:56	NP
2-Hexanone	BRL	10		ug/L	163970	1	07/18/2012 03:56	NP
4-Methyl-2-pentanone	BRL	10		ug/L	163970	1	07/18/2012 03:56	NP
Acetone	BRL	50		ug/L	163970	1	07/18/2012 03:56	NP
Benzene	2500	250		ug/L	163970	50	07/17/2012 21:42	NP
Bromodichloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
Bromoform	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
Bromomethane	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
Carbon disulfide	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
Carbon tetrachloride	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
Chlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
Chloroethane	BRL	10		ug/L	163970	1	07/18/2012 03:56	NP
Chloroform	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
Chloromethane	BRL	10		ug/L	163970	1	07/18/2012 03:56	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
Cyclohexane	BRL	250		ug/L	163970	50	07/17/2012 21:42	NP
Dibromochloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
Dichlorodifluoromethane	BRL	10		ug/L	163970	1	07/18/2012 03:56	NP
Ethylbenzene	2300	250		ug/L	163970	50	07/17/2012 21:42	NP
Freon-113	BRL	10		ug/L	163970	1	07/18/2012 03:56	NP
Isopropylbenzene	91	5.0		ug/L	163970	1	07/18/2012 03:56	NP
m,p-Xylene	9500	250		ug/L	163970	50	07/17/2012 21:42	NP
Methyl acetate	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
Methylcyclohexane	110	5.0		ug/L	163970	1	07/18/2012 03:56	NP
Methylene chloride	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
o-Xylene	3800	250		ug/L	163970	50	07/17/2012 21:42	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-8
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 8:57:00 AM
Lab ID:	1207894-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
Tetrachloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
Toluene	2500	250		ug/L	163970	50	07/17/2012 21:42	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
Trichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
Trichlorofluoromethane	BRL	5.0		ug/L	163970	1	07/18/2012 03:56	NP
Vinyl chloride	BRL	2.0		ug/L	163970	1	07/18/2012 03:56	NP
Surr: 4-Bromofluorobenzene	103	67.4-123		%REC	163970	50	07/17/2012 21:42	NP
Surr: 4-Bromofluorobenzene	111	67.4-123		%REC	163970	1	07/18/2012 03:56	NP
Surr: Dibromofluoromethane	101	75.5-128		%REC	163970	50	07/17/2012 21:42	NP
Surr: Dibromofluoromethane	81.9	75.5-128		%REC	163970	1	07/18/2012 03:56	NP
Surr: Toluene-d8	93.1	70-120		%REC	163970	50	07/17/2012 21:42	NP
Surr: Toluene-d8	101	70-120		%REC	163970	1	07/18/2012 03:56	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-2
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 9:58:00 AM
Lab ID:	1207894-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
1,1,2,2-Tetrachloroethane	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
1,1,2-Trichloroethane	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
1,1-Dichloroethane	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
1,1-Dichloroethene	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
1,2,4-Trichlorobenzene	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
1,2-Dibromo-3-chloropropane	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
1,2-Dibromoethane	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
1,2-Dichlorobenzene	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
1,2-Dichloroethane	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
1,2-Dichloropropane	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
1,3-Dichlorobenzene	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
1,4-Dichlorobenzene	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
2-Butanone	BRL	5000		ug/L	163970	100	07/17/2012 19:19	NP
2-Hexanone	BRL	1000		ug/L	163970	100	07/17/2012 19:19	NP
4-Methyl-2-pentanone	BRL	1000		ug/L	163970	100	07/17/2012 19:19	NP
Acetone	BRL	5000		ug/L	163970	100	07/17/2012 19:19	NP
Benzene	13000	500		ug/L	163970	100	07/17/2012 19:19	NP
Bromodichloromethane	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
Bromoform	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
Bromomethane	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
Carbon disulfide	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
Carbon tetrachloride	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
Chlorobenzene	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
Chloroethane	BRL	1000		ug/L	163970	100	07/17/2012 19:19	NP
Chloroform	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
Chloromethane	BRL	1000		ug/L	163970	100	07/17/2012 19:19	NP
cis-1,2-Dichloroethene	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
cis-1,3-Dichloropropene	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
Cyclohexane	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
Dibromochloromethane	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
Dichlorodifluoromethane	BRL	1000		ug/L	163970	100	07/17/2012 19:19	NP
Ethylbenzene	2700	500		ug/L	163970	100	07/17/2012 19:19	NP
Freon-113	BRL	1000		ug/L	163970	100	07/17/2012 19:19	NP
Isopropylbenzene	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
m,p-Xylene	11000	500		ug/L	163970	100	07/17/2012 19:19	NP
Methyl acetate	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
Methyl tert-butyl ether	1400	500		ug/L	163970	100	07/17/2012 19:19	NP
Methylcyclohexane	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
Methylene chloride	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
o-Xylene	5400	500		ug/L	163970	100	07/17/2012 19:19	NP

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-2
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 9:58:00 AM
Lab ID:	1207894-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
Tetrachloroethene	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
Toluene	7900	500		ug/L	163970	100	07/17/2012 19:19	NP
trans-1,2-Dichloroethene	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
trans-1,3-Dichloropropene	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
Trichloroethene	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
Trichlorofluoromethane	BRL	500		ug/L	163970	100	07/17/2012 19:19	NP
Vinyl chloride	BRL	200		ug/L	163970	100	07/17/2012 19:19	NP
Surr: 4-Bromofluorobenzene	101	67.4-123		%REC	163970	100	07/17/2012 19:19	NP
Surr: Dibromofluoromethane	90.8	75.5-128		%REC	163970	100	07/17/2012 19:19	NP
Surr: Toluene-d8	99	70-120		%REC	163970	100	07/17/2012 19:19	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-14
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 11:10:00 AM
Lab ID:	1207894-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
1,1-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
1,1-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
1,2-Dibromoethane	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
1,2-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
1,2-Dichloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
2-Butanone	BRL	50		ug/L	163970	1	07/18/2012 01:32	NP
2-Hexanone	BRL	10		ug/L	163970	1	07/18/2012 01:32	NP
4-Methyl-2-pentanone	BRL	10		ug/L	163970	1	07/18/2012 01:32	NP
Acetone	BRL	50		ug/L	163970	1	07/18/2012 01:32	NP
Benzene	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
Bromodichloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
Bromoform	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
Bromomethane	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
Carbon disulfide	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
Carbon tetrachloride	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
Chlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
Chloroethane	BRL	10		ug/L	163970	1	07/18/2012 01:32	NP
Chloroform	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
Chloromethane	BRL	10		ug/L	163970	1	07/18/2012 01:32	NP
cis-1,2-Dichloroethene	27	5.0		ug/L	163970	1	07/18/2012 01:32	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
Cyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
Dibromochloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
Dichlorodifluoromethane	BRL	10		ug/L	163970	1	07/18/2012 01:32	NP
Ethylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
Freon-113	BRL	10		ug/L	163970	1	07/18/2012 01:32	NP
Isopropylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
m,p-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
Methyl acetate	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
Methyl tert-butyl ether	12	5.0		ug/L	163970	1	07/18/2012 01:32	NP
Methylcyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
Methylene chloride	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
o-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-14
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 11:10:00 AM
Lab ID:	1207894-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
Tetrachloroethene	27	5.0		ug/L	163970	1	07/18/2012 01:32	NP
Toluene	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
Trichloroethene	23	5.0		ug/L	163970	1	07/18/2012 01:32	NP
Trichlorofluoromethane	BRL	5.0		ug/L	163970	1	07/18/2012 01:32	NP
Vinyl chloride	BRL	2.0		ug/L	163970	1	07/18/2012 01:32	NP
Surr: 4-Bromofluorobenzene	83.3	67.4-123		%REC	163970	1	07/18/2012 01:32	NP
Surr: Dibromofluoromethane	112	75.5-128		%REC	163970	1	07/18/2012 01:32	NP
Surr: Toluene-d8	93.2	70-120		%REC	163970	1	07/18/2012 01:32	NP

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	SW-3
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 12:00:00 PM
Lab ID:	1207894-009	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
1,1-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
1,1-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
1,2-Dibromoethane	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
1,2-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
1,2-Dichloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
2-Butanone	BRL	50		ug/L	163970	1	07/18/2012 00:06	NP
2-Hexanone	BRL	10		ug/L	163970	1	07/18/2012 00:06	NP
4-Methyl-2-pentanone	BRL	10		ug/L	163970	1	07/18/2012 00:06	NP
Acetone	BRL	50		ug/L	163970	1	07/18/2012 00:06	NP
Benzene	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
Bromodichloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
Bromoform	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
Bromomethane	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
Carbon disulfide	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
Carbon tetrachloride	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
Chlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
Chloroethane	BRL	10		ug/L	163970	1	07/18/2012 00:06	NP
Chloroform	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
Chloromethane	BRL	10		ug/L	163970	1	07/18/2012 00:06	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
Cyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
Dibromochloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
Dichlorodifluoromethane	BRL	10		ug/L	163970	1	07/18/2012 00:06	NP
Ethylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
Freon-113	BRL	10		ug/L	163970	1	07/18/2012 00:06	NP
Isopropylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
m,p-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
Methyl acetate	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
Methylcyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
Methylene chloride	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
o-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	SW-3
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 12:00:00 PM
Lab ID:	1207894-009	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
Tetrachloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
Toluene	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
Trichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
Trichlorofluoromethane	BRL	5.0		ug/L	163970	1	07/18/2012 00:06	NP
Vinyl chloride	BRL	2.0		ug/L	163970	1	07/18/2012 00:06	NP
Surr: 4-Bromofluorobenzene	85.6	67.4-123		%REC	163970	1	07/18/2012 00:06	NP
Surr: Dibromofluoromethane	119	75.5-128		%REC	163970	1	07/18/2012 00:06	NP
Surr: Toluene-d8	89.6	70-120		%REC	163970	1	07/18/2012 00:06	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-10
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 12:03:00 PM
Lab ID:	1207894-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
1,1-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
1,1-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
1,2-Dibromoethane	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
1,2-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
1,2-Dichloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
2-Butanone	BRL	50		ug/L	163970	1	07/18/2012 22:04	GK
2-Hexanone	BRL	10		ug/L	163970	1	07/18/2012 22:04	GK
4-Methyl-2-pentanone	BRL	10		ug/L	163970	1	07/18/2012 22:04	GK
Acetone	BRL	50		ug/L	163970	1	07/18/2012 22:04	GK
Benzene	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
Bromodichloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
Bromoform	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
Bromomethane	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
Carbon disulfide	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
Carbon tetrachloride	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
Chlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
Chloroethane	BRL	10		ug/L	163970	1	07/18/2012 22:04	GK
Chloroform	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
Chloromethane	BRL	10		ug/L	163970	1	07/18/2012 22:04	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
Cyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
Dibromochloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
Dichlorodifluoromethane	BRL	10		ug/L	163970	1	07/18/2012 22:04	GK
Ethylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
Freon-113	BRL	10		ug/L	163970	1	07/18/2012 22:04	GK
Isopropylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
m,p-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
Methyl acetate	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
Methylcyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
Methylene chloride	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
o-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-10
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 12:03:00 PM
Lab ID:	1207894-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
Tetrachloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
Toluene	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
Trichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
Trichlorofluoromethane	BRL	5.0		ug/L	163970	1	07/18/2012 22:04	GK
Vinyl chloride	BRL	2.0		ug/L	163970	1	07/18/2012 22:04	GK
Surr: 4-Bromofluorobenzene	81.7	67.4-123		%REC	163970	1	07/18/2012 22:04	GK
Surr: Dibromofluoromethane	106	75.5-128		%REC	163970	1	07/18/2012 22:04	GK
Surr: Toluene-d8	89.5	70-120		%REC	163970	1	07/18/2012 22:04	GK

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-6
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 12:45:00 PM
Lab ID:	1207894-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
1,1-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
1,1-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
1,2-Dibromoethane	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
1,2-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
1,2-Dichloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
2-Butanone	BRL	50		ug/L	163970	1	07/18/2012 02:30	NP
2-Hexanone	BRL	10		ug/L	163970	1	07/18/2012 02:30	NP
4-Methyl-2-pentanone	BRL	10		ug/L	163970	1	07/18/2012 02:30	NP
Acetone	BRL	50		ug/L	163970	1	07/18/2012 02:30	NP
Benzene	13	5.0		ug/L	163970	1	07/18/2012 02:30	NP
Bromodichloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
Bromoform	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
Bromomethane	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
Carbon disulfide	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
Carbon tetrachloride	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
Chlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
Chloroethane	BRL	10		ug/L	163970	1	07/18/2012 02:30	NP
Chloroform	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
Chloromethane	BRL	10		ug/L	163970	1	07/18/2012 02:30	NP
cis-1,2-Dichloroethene	870	50		ug/L	163970	10	07/17/2012 22:40	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
Cyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
Dibromochloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
Dichlorodifluoromethane	BRL	10		ug/L	163970	1	07/18/2012 02:30	NP
Ethylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
Freon-113	BRL	10		ug/L	163970	1	07/18/2012 02:30	NP
Isopropylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
m,p-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
Methyl acetate	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
Methyl tert-butyl ether	310	50		ug/L	163970	10	07/17/2012 22:40	NP
Methylcyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
Methylene chloride	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
o-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-6
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 12:45:00 PM
Lab ID:	1207894-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
Tetrachloroethene	2600	250		ug/L	163970	50	07/18/2012 12:56	NP
Toluene	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
trans-1,2-Dichloroethene	16	5.0		ug/L	163970	1	07/18/2012 02:30	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
Trichloroethene	170	5.0		ug/L	163970	1	07/18/2012 02:30	NP
Trichlorofluoromethane	BRL	5.0		ug/L	163970	1	07/18/2012 02:30	NP
Vinyl chloride	7.8	2.0		ug/L	163970	1	07/18/2012 02:30	NP
Surr: 4-Bromofluorobenzene	75.8	67.4-123		%REC	163970	50	07/18/2012 12:56	NP
Surr: 4-Bromofluorobenzene	80.8	67.4-123		%REC	163970	1	07/18/2012 02:30	NP
Surr: 4-Bromofluorobenzene	85	67.4-123		%REC	163970	10	07/17/2012 22:40	NP
Surr: Dibromofluoromethane	105	75.5-128		%REC	163970	50	07/18/2012 12:56	NP
Surr: Dibromofluoromethane	104	75.5-128		%REC	163970	1	07/18/2012 02:30	NP
Surr: Dibromofluoromethane	102	75.5-128		%REC	163970	10	07/17/2012 22:40	NP
Surr: Toluene-d8	89.9	70-120		%REC	163970	50	07/18/2012 12:56	NP
Surr: Toluene-d8	86.5	70-120		%REC	163970	10	07/17/2012 22:40	NP
Surr: Toluene-d8	88.1	70-120		%REC	163970	1	07/18/2012 02:30	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	SW-2
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 1:55:00 PM
Lab ID:	1207894-012	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
1,1-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
1,1-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
1,2-Dibromoethane	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
1,2-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
1,2-Dichloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
2-Butanone	BRL	50		ug/L	163970	1	07/18/2012 22:33	GK
2-Hexanone	BRL	10		ug/L	163970	1	07/18/2012 22:33	GK
4-Methyl-2-pentanone	BRL	10		ug/L	163970	1	07/18/2012 22:33	GK
Acetone	BRL	50		ug/L	163970	1	07/18/2012 22:33	GK
Benzene	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
Bromodichloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
Bromoform	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
Bromomethane	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
Carbon disulfide	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
Carbon tetrachloride	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
Chlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
Chloroethane	BRL	10		ug/L	163970	1	07/18/2012 22:33	GK
Chloroform	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
Chloromethane	BRL	10		ug/L	163970	1	07/18/2012 22:33	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
Cyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
Dibromochloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
Dichlorodifluoromethane	BRL	10		ug/L	163970	1	07/18/2012 22:33	GK
Ethylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
Freon-113	BRL	10		ug/L	163970	1	07/18/2012 22:33	GK
Isopropylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
m,p-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
Methyl acetate	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
Methylcyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
Methylene chloride	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
o-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	SW-2
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 1:55:00 PM
Lab ID:	1207894-012	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
Tetrachloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
Toluene	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
Trichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
Trichlorofluoromethane	BRL	5.0		ug/L	163970	1	07/18/2012 22:33	GK
Vinyl chloride	BRL	2.0		ug/L	163970	1	07/18/2012 22:33	GK
Surr: 4-Bromofluorobenzene	79.7	67.4-123		%REC	163970	1	07/18/2012 22:33	GK
Surr: Dibromofluoromethane	112	75.5-128		%REC	163970	1	07/18/2012 22:33	GK
Surr: Toluene-d8	87.1	70-120		%REC	163970	1	07/18/2012 22:33	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	SW-1
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 2:10:00 PM
Lab ID:	1207894-013	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
1,1-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
1,1-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
1,2-Dibromoethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
1,2-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
1,2-Dichloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
2-Butanone	BRL	50		ug/L	163970	1	07/18/2012 23:01	GK
2-Hexanone	BRL	10		ug/L	163970	1	07/18/2012 23:01	GK
4-Methyl-2-pentanone	BRL	10		ug/L	163970	1	07/18/2012 23:01	GK
Acetone	BRL	50		ug/L	163970	1	07/18/2012 23:01	GK
Benzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
Bromodichloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
Bromoform	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
Bromomethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
Carbon disulfide	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
Carbon tetrachloride	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
Chlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
Chloroethane	BRL	10		ug/L	163970	1	07/18/2012 23:01	GK
Chloroform	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
Chloromethane	BRL	10		ug/L	163970	1	07/18/2012 23:01	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
Cyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
Dibromochloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
Dichlorodifluoromethane	BRL	10		ug/L	163970	1	07/18/2012 23:01	GK
Ethylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
Freon-113	BRL	10		ug/L	163970	1	07/18/2012 23:01	GK
Isopropylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
m,p-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
Methyl acetate	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
Methylcyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
Methylene chloride	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
o-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	SW-1
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 2:10:00 PM
Lab ID:	1207894-013	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
Tetrachloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
Toluene	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
Trichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
Trichlorofluoromethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:01	GK
Vinyl chloride	BRL	2.0		ug/L	163970	1	07/18/2012 23:01	GK
Surr: 4-Bromofluorobenzene	85	67.4-123		%REC	163970	1	07/18/2012 23:01	GK
Surr: Dibromofluoromethane	109	75.5-128		%REC	163970	1	07/18/2012 23:01	GK
Surr: Toluene-d8	88.8	70-120		%REC	163970	1	07/18/2012 23:01	GK

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-5
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 2:15:00 PM
Lab ID:	1207894-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
1,1-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
1,1-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
1,2-Dibromoethane	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
1,2-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
1,2-Dichloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
2-Butanone	BRL	50		ug/L	163970	1	07/18/2012 14:22	NP
2-Hexanone	BRL	10		ug/L	163970	1	07/18/2012 14:22	NP
4-Methyl-2-pentanone	BRL	10		ug/L	163970	1	07/18/2012 14:22	NP
Acetone	BRL	50		ug/L	163970	1	07/18/2012 14:22	NP
Benzene	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
Bromodichloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
Bromoform	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
Bromomethane	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
Carbon disulfide	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
Carbon tetrachloride	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
Chlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
Chloroethane	BRL	10		ug/L	163970	1	07/18/2012 14:22	NP
Chloroform	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
Chloromethane	BRL	10		ug/L	163970	1	07/18/2012 14:22	NP
cis-1,2-Dichloroethene	59	5.0		ug/L	163970	1	07/18/2012 14:22	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
Cyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
Dibromochloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
Dichlorodifluoromethane	BRL	10		ug/L	163970	1	07/18/2012 14:22	NP
Ethylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
Freon-113	BRL	10		ug/L	163970	1	07/18/2012 14:22	NP
Isopropylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
m,p-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
Methyl acetate	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
Methylcyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
Methylene chloride	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
o-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-5
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 2:15:00 PM
Lab ID:	1207894-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
Tetrachloroethene	7.3	5.0		ug/L	163970	1	07/18/2012 14:22	NP
Toluene	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
Trichloroethene	6.8	5.0		ug/L	163970	1	07/18/2012 14:22	NP
Trichlorofluoromethane	BRL	5.0		ug/L	163970	1	07/18/2012 14:22	NP
Vinyl chloride	7.1	2.0		ug/L	163970	1	07/18/2012 14:22	NP
Surr: 4-Bromofluorobenzene	82.8	67.4-123		%REC	163970	1	07/18/2012 14:22	NP
Surr: Dibromofluoromethane	109	75.5-128		%REC	163970	1	07/18/2012 14:22	NP
Surr: Toluene-d8	91.3	70-120		%REC	163970	1	07/18/2012 14:22	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-11
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 3:08:00 PM
Lab ID:	1207894-015	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
1,1-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
1,1-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
1,2-Dibromoethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
1,2-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
1,2-Dichloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
2-Butanone	BRL	50		ug/L	163970	1	07/18/2012 23:30	GK
2-Hexanone	BRL	10		ug/L	163970	1	07/18/2012 23:30	GK
4-Methyl-2-pentanone	BRL	10		ug/L	163970	1	07/18/2012 23:30	GK
Acetone	BRL	50		ug/L	163970	1	07/18/2012 23:30	GK
Benzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
Bromodichloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
Bromoform	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
Bromomethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
Carbon disulfide	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
Carbon tetrachloride	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
Chlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
Chloroethane	BRL	10		ug/L	163970	1	07/18/2012 23:30	GK
Chloroform	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
Chloromethane	BRL	10		ug/L	163970	1	07/18/2012 23:30	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
Cyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
Dibromochloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
Dichlorodifluoromethane	BRL	10		ug/L	163970	1	07/18/2012 23:30	GK
Ethylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
Freon-113	BRL	10		ug/L	163970	1	07/18/2012 23:30	GK
Isopropylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
m,p-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
Methyl acetate	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
Methyl tert-butyl ether	240	50		ug/L	163970	10	07/19/2012 12:30	GK
Methylcyclohexane	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
Methylene chloride	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
o-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-11
Project Name:	Fashion Care	**Collection Date:**	7/11/2012 3:08:00 PM
Lab ID:	1207894-015	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
Tetrachloroethene	30	5.0		ug/L	163970	1	07/18/2012 23:30	GK
Toluene	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
Trichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
Trichlorofluoromethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:30	GK
Vinyl chloride	BRL	2.0		ug/L	163970	1	07/18/2012 23:30	GK
Surr: 4-Bromofluorobenzene	78.2	67.4-123		%REC	163970	1	07/18/2012 23:30	GK
Surr: 4-Bromofluorobenzene	83.8	67.4-123		%REC	163970	10	07/19/2012 12:30	GK
Surr: Dibromofluoromethane	96	75.5-128		%REC	163970	10	07/19/2012 12:30	GK
Surr: Dibromofluoromethane	117	75.5-128		%REC	163970	1	07/18/2012 23:30	GK
Surr: Toluene-d8	86.8	70-120		%REC	163970	1	07/18/2012 23:30	GK
Surr: Toluene-d8	92.7	70-120		%REC	163970	10	07/19/2012 12:30	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-3
Project Name:	Fashion Care	**Collection Date:**	7/12/2012 8:16:00 AM
Lab ID:	1207894-016	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
1,1-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
1,1-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
1,2-Dibromoethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
1,2-Dichloroethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
1,2-Dichloropropane	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
2-Butanone	BRL	50		ug/L	163970	1	07/18/2012 23:59	GK
2-Hexanone	BRL	10		ug/L	163970	1	07/18/2012 23:59	GK
4-Methyl-2-pentanone	BRL	10		ug/L	163970	1	07/18/2012 23:59	GK
Acetone	BRL	50		ug/L	163970	1	07/18/2012 23:59	GK
Benzene	70	5.0		ug/L	163970	1	07/18/2012 23:59	GK
Bromodichloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
Bromoform	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
Bromomethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
Carbon disulfide	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
Carbon tetrachloride	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
Chlorobenzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
Chloroethane	BRL	10		ug/L	163970	1	07/18/2012 23:59	GK
Chloroform	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
Chloromethane	BRL	10		ug/L	163970	1	07/18/2012 23:59	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
Cyclohexane	42	5.0		ug/L	163970	1	07/18/2012 23:59	GK
Dibromochloromethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
Dichlorodifluoromethane	BRL	10		ug/L	163970	1	07/18/2012 23:59	GK
Ethylbenzene	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
Freon-113	BRL	10		ug/L	163970	1	07/18/2012 23:59	GK
Isopropylbenzene	19	5.0		ug/L	163970	1	07/18/2012 23:59	GK
m,p-Xylene	7.8	5.0		ug/L	163970	1	07/18/2012 23:59	GK
Methyl acetate	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
Methylcyclohexane	69	5.0		ug/L	163970	1	07/18/2012 23:59	GK
Methylene chloride	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
o-Xylene	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-3
Project Name:	Fashion Care	**Collection Date:**	7/12/2012 8:16:00 AM
Lab ID:	1207894-016	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
Tetrachloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
Toluene	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
Trichloroethene	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
Trichlorofluoromethane	BRL	5.0		ug/L	163970	1	07/18/2012 23:59	GK
Vinyl chloride	BRL	2.0		ug/L	163970	1	07/18/2012 23:59	GK
Surr: 4-Bromofluorobenzene	110	67.4-123		%REC	163970	1	07/18/2012 23:59	GK
Surr: Dibromofluoromethane	105	75.5-128		%REC	163970	1	07/18/2012 23:59	GK
Surr: Toluene-d8	106	70-120		%REC	163970	1	07/18/2012 23:59	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-7
Project Name:	Fashion Care	**Collection Date:**	7/12/2012 9:25:00 AM
Lab ID:	1207894-017	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
1,1-Dichloroethane	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
1,1-Dichloroethene	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
1,2-Dibromoethane	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
1,2-Dichloroethane	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
1,2-Dichloropropane	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
2-Butanone	BRL	50		ug/L	163970	1	07/19/2012 00:28	GK
2-Hexanone	BRL	10		ug/L	163970	1	07/19/2012 00:28	GK
4-Methyl-2-pentanone	BRL	10		ug/L	163970	1	07/19/2012 00:28	GK
Acetone	BRL	50		ug/L	163970	1	07/19/2012 00:28	GK
Benzene	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
Bromodichloromethane	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
Bromoform	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
Bromomethane	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
Carbon disulfide	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
Carbon tetrachloride	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
Chlorobenzene	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
Chloroethane	BRL	10		ug/L	163970	1	07/19/2012 00:28	GK
Chloroform	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
Chloromethane	BRL	10		ug/L	163970	1	07/19/2012 00:28	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
Cyclohexane	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
Dibromochloromethane	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
Dichlorodifluoromethane	BRL	10		ug/L	163970	1	07/19/2012 00:28	GK
Ethylbenzene	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
Freon-113	BRL	10		ug/L	163970	1	07/19/2012 00:28	GK
Isopropylbenzene	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
m,p-Xylene	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
Methyl acetate	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
Methylcyclohexane	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
Methylene chloride	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
o-Xylene	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-7
Project Name:	Fashion Care	**Collection Date:**	7/12/2012 9:25:00 AM
Lab ID:	1207894-017	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
Tetrachloroethene	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
Toluene	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
Trichloroethene	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
Trichlorofluoromethane	BRL	5.0		ug/L	163970	1	07/19/2012 00:28	GK
Vinyl chloride	BRL	2.0		ug/L	163970	1	07/19/2012 00:28	GK
Surr: 4-Bromofluorobenzene	82.5	67.4-123		%REC	163970	1	07/19/2012 00:28	GK
Surr: Dibromofluoromethane	98.7	75.5-128		%REC	163970	1	07/19/2012 00:28	GK
Surr: Toluene-d8	83.7	70-120		%REC	163970	1	07/19/2012 00:28	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-4
Project Name:	Fashion Care	**Collection Date:**	7/12/2012 10:25:00 AM
Lab ID:	1207894-018	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
1,1,2,2-Tetrachloroethane	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
1,1,2-Trichloroethane	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
1,1-Dichloroethane	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
1,1-Dichloroethene	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
1,2,4-Trichlorobenzene	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
1,2-Dibromo-3-chloropropane	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
1,2-Dibromoethane	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
1,2-Dichlorobenzene	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
1,2-Dichloroethane	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
1,2-Dichloropropane	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
1,3-Dichlorobenzene	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
1,4-Dichlorobenzene	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
2-Butanone	BRL	5000		ug/L	163970	100	07/17/2012 20:16	NP
2-Hexanone	BRL	1000		ug/L	163970	100	07/17/2012 20:16	NP
4-Methyl-2-pentanone	BRL	1000		ug/L	163970	100	07/17/2012 20:16	NP
Acetone	BRL	5000		ug/L	163970	100	07/17/2012 20:16	NP
Benzene	5000	500		ug/L	163970	100	07/17/2012 20:16	NP
Bromodichloromethane	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
Bromoform	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
Bromomethane	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
Carbon disulfide	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
Carbon tetrachloride	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
Chlorobenzene	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
Chloroethane	BRL	1000		ug/L	163970	100	07/17/2012 20:16	NP
Chloroform	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
Chloromethane	BRL	1000		ug/L	163970	100	07/17/2012 20:16	NP
cis-1,2-Dichloroethene	75000	2500		ug/L	163970	500	07/18/2012 12:26	NP
cis-1,3-Dichloropropene	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
Cyclohexane	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
Dibromochloromethane	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
Dichlorodifluoromethane	BRL	1000		ug/L	163970	100	07/17/2012 20:16	NP
Ethylbenzene	1300	500		ug/L	163970	100	07/17/2012 20:16	NP
Freon-113	BRL	1000		ug/L	163970	100	07/17/2012 20:16	NP
Isopropylbenzene	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
m,p-Xylene	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
Methyl acetate	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
Methyl tert-butyl ether	1600	500		ug/L	163970	100	07/17/2012 20:16	NP
Methylcyclohexane	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
Methylene chloride	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
o-Xylene	710	500		ug/L	163970	100	07/17/2012 20:16	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-4
Project Name:	Fashion Care	**Collection Date:**	7/12/2012 10:25:00 AM
Lab ID:	1207894-018	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
Tetrachloroethene	1500	500		ug/L	163970	100	07/17/2012 20:16	NP
Toluene	1800	500		ug/L	163970	100	07/17/2012 20:16	NP
trans-1,2-Dichloroethene	540	500		ug/L	163970	100	07/17/2012 20:16	NP
trans-1,3-Dichloropropene	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
Trichloroethene	1100	500		ug/L	163970	100	07/17/2012 20:16	NP
Trichlorofluoromethane	BRL	500		ug/L	163970	100	07/17/2012 20:16	NP
Vinyl chloride	2400	200		ug/L	163970	100	07/17/2012 20:16	NP
Surr: 4-Bromofluorobenzene	86.7	67.4-123		%REC	163970	500	07/18/2012 12:26	NP
Surr: 4-Bromofluorobenzene	95.8	67.4-123		%REC	163970	100	07/17/2012 20:16	NP
Surr: Dibromofluoromethane	107	75.5-128		%REC	163970	500	07/18/2012 12:26	NP
Surr: Dibromofluoromethane	97.1	75.5-128		%REC	163970	100	07/17/2012 20:16	NP
Surr: Toluene-d8	95.2	70-120		%REC	163970	500	07/18/2012 12:26	NP
Surr: Toluene-d8	91.3	70-120		%REC	163970	100	07/17/2012 20:16	NP

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-12
Project Name:	Fashion Care	**Collection Date:**	7/12/2012 11:37:00 AM
Lab ID:	1207894-019	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
1,1-Dichloroethane	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
1,1-Dichloroethene	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
1,2-Dibromoethane	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
1,2-Dichloroethane	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
1,2-Dichloropropane	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
2-Butanone	BRL	50		ug/L	163970	1	07/19/2012 00:56	GK
2-Hexanone	BRL	10		ug/L	163970	1	07/19/2012 00:56	GK
4-Methyl-2-pentanone	BRL	10		ug/L	163970	1	07/19/2012 00:56	GK
Acetone	BRL	50		ug/L	163970	1	07/19/2012 00:56	GK
Benzene	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
Bromodichloromethane	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
Bromoform	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
Bromomethane	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
Carbon disulfide	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
Carbon tetrachloride	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
Chlorobenzene	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
Chloroethane	BRL	10		ug/L	163970	1	07/19/2012 00:56	GK
Chloroform	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
Chloromethane	BRL	10		ug/L	163970	1	07/19/2012 00:56	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
Cyclohexane	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
Dibromochloromethane	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
Dichlorodifluoromethane	BRL	10		ug/L	163970	1	07/19/2012 00:56	GK
Ethylbenzene	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
Freon-113	BRL	10		ug/L	163970	1	07/19/2012 00:56	GK
Isopropylbenzene	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
m,p-Xylene	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
Methyl acetate	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
Methyl tert-butyl ether	46	5.0		ug/L	163970	1	07/19/2012 00:56	GK
Methylcyclohexane	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
Methylene chloride	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
o-Xylene	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	FMW-12
Project Name:	Fashion Care	**Collection Date:**	7/12/2012 11:37:00 AM
Lab ID:	1207894-019	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
Tetrachloroethene	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
Toluene	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
Trichloroethene	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
Trichlorofluoromethane	BRL	5.0		ug/L	163970	1	07/19/2012 00:56	GK
Vinyl chloride	BRL	2.0		ug/L	163970	1	07/19/2012 00:56	GK
Surr: 4-Bromofluorobenzene	82.5	67.4-123		%REC	163970	1	07/19/2012 00:56	GK
Surr: Dibromofluoromethane	115	75.5-128		%REC	163970	1	07/19/2012 00:56	GK
Surr: Toluene-d8	88.7	70-120		%REC	163970	1	07/19/2012 00:56	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	SB-24
Project Name:	Fashion Care	**Collection Date:**	7/13/2012 1:05:00 PM
Lab ID:	1207894-020	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
1,1,2,2-Tetrachloroethane	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
1,1,2-Trichloroethane	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
1,1-Dichloroethane	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
1,1-Dichloroethene	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
1,2,4-Trichlorobenzene	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
1,2-Dibromo-3-chloropropane	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
1,2-Dibromoethane	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
1,2-Dichlorobenzene	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
1,2-Dichloroethane	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
1,2-Dichloropropane	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
1,3-Dichlorobenzene	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
1,4-Dichlorobenzene	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
2-Butanone	BRL	5000		ug/L	163970	100	07/17/2012 20:45	NP
2-Hexanone	BRL	1000		ug/L	163970	100	07/17/2012 20:45	NP
4-Methyl-2-pentanone	BRL	1000		ug/L	163970	100	07/17/2012 20:45	NP
Acetone	BRL	5000		ug/L	163970	100	07/17/2012 20:45	NP
Benzene	5300	500		ug/L	163970	100	07/17/2012 20:45	NP
Bromodichloromethane	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
Bromoform	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
Bromomethane	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
Carbon disulfide	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
Carbon tetrachloride	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
Chlorobenzene	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
Chloroethane	BRL	1000		ug/L	163970	100	07/17/2012 20:45	NP
Chloroform	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
Chloromethane	BRL	1000		ug/L	163970	100	07/17/2012 20:45	NP
cis-1,2-Dichloroethene	2700	500		ug/L	163970	100	07/17/2012 20:45	NP
cis-1,3-Dichloropropene	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
Cyclohexane	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
Dibromochloromethane	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
Dichlorodifluoromethane	BRL	1000		ug/L	163970	100	07/17/2012 20:45	NP
Ethylbenzene	1200	500		ug/L	163970	100	07/17/2012 20:45	NP
Freon-113	BRL	1000		ug/L	163970	100	07/17/2012 20:45	NP
Isopropylbenzene	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
m,p-Xylene	5100	500		ug/L	163970	100	07/17/2012 20:45	NP
Methyl acetate	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
Methyl tert-butyl ether	10000	500		ug/L	163970	100	07/17/2012 20:45	NP
Methylcyclohexane	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
Methylene chloride	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
o-Xylene	2600	500		ug/L	163970	100	07/17/2012 20:45	NP

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	SB-24
Project Name:	Fashion Care	**Collection Date:**	7/13/2012 1:05:00 PM
Lab ID:	1207894-020	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
Tetrachloroethene	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
Toluene	9800	500		ug/L	163970	100	07/17/2012 20:45	NP
trans-1,2-Dichloroethene	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
trans-1,3-Dichloropropene	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
Trichloroethene	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
Trichlorofluoromethane	BRL	500		ug/L	163970	100	07/17/2012 20:45	NP
Vinyl chloride	BRL	200		ug/L	163970	100	07/17/2012 20:45	NP
Surr: 4-Bromofluorobenzene	101	67.4-123		%REC	163970	100	07/17/2012 20:45	NP
Surr: Dibromofluoromethane	104	75.5-128		%REC	163970	100	07/17/2012 20:45	NP
Surr: Toluene-d8	100	70-120		%REC	163970	100	07/17/2012 20:45	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	SB-26
Project Name:	Fashion Care	**Collection Date:**	7/13/2012 1:23:00 PM
Lab ID:	1207894-021	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
1,1,2,2-Tetrachloroethane	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
1,1,2-Trichloroethane	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
1,1-Dichloroethane	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
1,1-Dichloroethene	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
1,2,4-Trichlorobenzene	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
1,2-Dibromo-3-chloropropane	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
1,2-Dibromoethane	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
1,2-Dichlorobenzene	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
1,2-Dichloroethane	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
1,2-Dichloropropane	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
1,3-Dichlorobenzene	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
1,4-Dichlorobenzene	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
2-Butanone	BRL	5000		ug/L	163989	100	07/18/2012 11:00	NP
2-Hexanone	BRL	1000		ug/L	163989	100	07/18/2012 11:00	NP
4-Methyl-2-pentanone	BRL	1000		ug/L	163989	100	07/18/2012 11:00	NP
Acetone	BRL	5000		ug/L	163989	100	07/18/2012 11:00	NP
Benzene	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
Bromodichloromethane	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
Bromoform	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
Bromomethane	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
Carbon disulfide	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
Carbon tetrachloride	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
Chlorobenzene	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
Chloroethane	BRL	1000		ug/L	163989	100	07/18/2012 11:00	NP
Chloroform	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
Chloromethane	BRL	1000		ug/L	163989	100	07/18/2012 11:00	NP
cis-1,2-Dichloroethene	13000	500		ug/L	163989	100	07/18/2012 11:00	NP
cis-1,3-Dichloropropene	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
Cyclohexane	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
Dibromochloromethane	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
Dichlorodifluoromethane	BRL	1000		ug/L	163989	100	07/18/2012 11:00	NP
Ethylbenzene	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
Freon-113	BRL	1000		ug/L	163989	100	07/18/2012 11:00	NP
Isopropylbenzene	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
m,p-Xylene	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
Methyl acetate	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
Methyl tert-butyl ether	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
Methylcyclohexane	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
Methylene chloride	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
o-Xylene	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	SB-26
Project Name:	Fashion Care	**Collection Date:**	7/13/2012 1:23:00 PM
Lab ID:	1207894-021	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
Tetrachloroethene	12000	500		ug/L	163989	100	07/18/2012 11:00	NP
Toluene	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
trans-1,2-Dichloroethene	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
trans-1,3-Dichloropropene	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
Trichloroethene	11000	500		ug/L	163989	100	07/18/2012 11:00	NP
Trichlorofluoromethane	BRL	500		ug/L	163989	100	07/18/2012 11:00	NP
Vinyl chloride	460	200		ug/L	163989	100	07/18/2012 11:00	NP
Surr: 4-Bromofluorobenzene	86.1	67.4-123		%REC	163989	100	07/18/2012 11:00	NP
Surr: Dibromofluoromethane	106	75.5-128		%REC	163989	100	07/18/2012 11:00	NP
Surr: Toluene-d8	90.8	70-120		%REC	163989	100	07/18/2012 11:00	NP

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	DUP 1
Project Name:	Fashion Care	**Collection Date:**	7/11/2012
Lab ID:	1207894-022	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
1,1-Dichloroethane	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
1,1-Dichloroethene	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
1,2-Dibromoethane	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
1,2-Dichloroethane	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
1,2-Dichloropropane	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
2-Butanone	BRL	50		ug/L	163989	1	07/19/2012 01:25	GK
2-Hexanone	BRL	10		ug/L	163989	1	07/19/2012 01:25	GK
4-Methyl-2-pentanone	BRL	10		ug/L	163989	1	07/19/2012 01:25	GK
Acetone	BRL	50		ug/L	163989	1	07/19/2012 01:25	GK
Benzene	740	250		ug/L	163989	50	07/19/2012 15:23	GK
Bromodichloromethane	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
Bromoform	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
Bromomethane	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
Carbon disulfide	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
Carbon tetrachloride	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
Chlorobenzene	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
Chloroethane	BRL	10		ug/L	163989	1	07/19/2012 01:25	GK
Chloroform	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
Chloromethane	BRL	10		ug/L	163989	1	07/19/2012 01:25	GK
cis-1,2-Dichloroethene	160	5.0		ug/L	163989	1	07/19/2012 01:25	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
Cyclohexane	230	100		ug/L	163989	50	07/19/2012 15:23	GK
Dibromochloromethane	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
Dichlorodifluoromethane	BRL	10		ug/L	163989	1	07/19/2012 01:25	GK
Ethylbenzene	400	250		ug/L	163989	50	07/19/2012 15:23	GK
Freon-113	BRL	10		ug/L	163989	1	07/19/2012 01:25	GK
Isopropylbenzene	43	5.0		ug/L	163989	1	07/19/2012 01:25	GK
m,p-Xylene	1200	250		ug/L	163989	50	07/19/2012 15:23	GK
Methyl acetate	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
Methyl tert-butyl ether	1800	250		ug/L	163989	50	07/19/2012 15:23	GK
Methylcyclohexane	120	5.0		ug/L	163989	1	07/19/2012 01:25	GK
Methylene chloride	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
o-Xylene	460	250		ug/L	163989	50	07/19/2012 15:23	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	DUP 1
Project Name:	Fashion Care	**Collection Date:**	7/11/2012
Lab ID:	1207894-022	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
Tetrachloroethene	8.7	5.0		ug/L	163989	1	07/19/2012 01:25	GK
Toluene	2100	250		ug/L	163989	50	07/19/2012 15:23	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
Trichloroethene	10	5.0		ug/L	163989	1	07/19/2012 01:25	GK
Trichlorofluoromethane	BRL	5.0		ug/L	163989	1	07/19/2012 01:25	GK
Vinyl chloride	50	2.0		ug/L	163989	1	07/19/2012 01:25	GK
Surr: 4-Bromofluorobenzene	100	67.4-123		%REC	163989	50	07/19/2012 15:23	GK
Surr: 4-Bromofluorobenzene	106	67.4-123		%REC	163989	1	07/19/2012 01:25	GK
Surr: Dibromofluoromethane	108	75.5-128		%REC	163989	50	07/19/2012 15:23	GK
Surr: Dibromofluoromethane	83.9	75.5-128		%REC	163989	1	07/19/2012 01:25	GK
Surr: Toluene-d8	91.1	70-120		%REC	163989	50	07/19/2012 15:23	GK
Surr: Toluene-d8	100	70-120		%REC	163989	1	07/19/2012 01:25	GK

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	TRIP BLANK
Project Name:	Fashion Care	**Collection Date:**	7/10/2012 11:20:00 AM
Lab ID:	1207894-023	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
1,1-Dichloroethane	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
1,1-Dichloroethene	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
1,2-Dibromoethane	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
1,2-Dichloroethane	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
1,2-Dichloropropane	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
2-Butanone	BRL	50		ug/L	163989	1	07/18/2012 11:58	NP
2-Hexanone	BRL	10		ug/L	163989	1	07/18/2012 11:58	NP
4-Methyl-2-pentanone	BRL	10		ug/L	163989	1	07/18/2012 11:58	NP
Acetone	BRL	50		ug/L	163989	1	07/18/2012 11:58	NP
Benzene	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
Bromodichloromethane	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
Bromoform	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
Bromomethane	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
Carbon disulfide	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
Carbon tetrachloride	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
Chlorobenzene	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
Chloroethane	BRL	10		ug/L	163989	1	07/18/2012 11:58	NP
Chloroform	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
Chloromethane	BRL	10		ug/L	163989	1	07/18/2012 11:58	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
Cyclohexane	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
Dibromochloromethane	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
Dichlorodifluoromethane	BRL	10		ug/L	163989	1	07/18/2012 11:58	NP
Ethylbenzene	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
Freon-113	BRL	10		ug/L	163989	1	07/18/2012 11:58	NP
Isopropylbenzene	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
m,p-Xylene	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
Methyl acetate	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
Methylcyclohexane	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
Methylene chloride	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
o-Xylene	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	TRIP BLANK
Project Name:	Fashion Care	**Collection Date:**	7/10/2012 11:20:00 AM
Lab ID:	1207894-023	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
Tetrachloroethene	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
Toluene	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
Trichloroethene	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
Trichlorofluoromethane	BRL	5.0		ug/L	163989	1	07/18/2012 11:58	NP
Vinyl chloride	BRL	2.0		ug/L	163989	1	07/18/2012 11:58	NP
Surr: 4-Bromofluorobenzene	79.1	67.4-123		%REC	163989	1	07/18/2012 11:58	NP
Surr: Dibromofluoromethane	106	75.5-128		%REC	163989	1	07/18/2012 11:58	NP
Surr: Toluene-d8	88.3	70-120		%REC	163989	1	07/18/2012 11:58	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	IDW-1 (WATER)
Project Name:	Fashion Care	**Collection Date:**	7/13/2012 1:40:00 PM
Lab ID:	1207894-024	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
1,1-Dichloroethane	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
1,1-Dichloroethene	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
1,2-Dibromoethane	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
1,2-Dichloroethane	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
1,2-Dichloropropane	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
2-Butanone	BRL	50		ug/L	163989	1	07/19/2012 01:54	GK
2-Hexanone	BRL	10		ug/L	163989	1	07/19/2012 01:54	GK
4-Methyl-2-pentanone	BRL	10		ug/L	163989	1	07/19/2012 01:54	GK
Acetone	BRL	50		ug/L	163989	1	07/19/2012 01:54	GK
Benzene	790	250		ug/L	163989	50	07/19/2012 15:52	GK
Bromodichloromethane	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
Bromoform	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
Bromomethane	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
Carbon disulfide	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
Carbon tetrachloride	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
Chlorobenzene	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
Chloroethane	BRL	10		ug/L	163989	1	07/19/2012 01:54	GK
Chloroform	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
Chloromethane	BRL	10		ug/L	163989	1	07/19/2012 01:54	GK
cis-1,2-Dichloroethene	3800	250		ug/L	163989	50	07/19/2012 15:52	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
Cyclohexane	22	5.0		ug/L	163989	1	07/19/2012 01:54	GK
Dibromochloromethane	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
Dichlorodifluoromethane	BRL	10		ug/L	163989	1	07/19/2012 01:54	GK
Ethylbenzene	150	5.0		ug/L	163989	1	07/19/2012 01:54	GK
Freon-113	BRL	10		ug/L	163989	1	07/19/2012 01:54	GK
Isopropylbenzene	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
m,p-Xylene	460	250		ug/L	163989	50	07/19/2012 15:52	GK
Methyl acetate	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
Methyl tert-butyl ether	270	250		ug/L	163989	50	07/19/2012 15:52	GK
Methylcyclohexane	15	5.0		ug/L	163989	1	07/19/2012 01:54	GK
Methylene chloride	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
o-Xylene	330	250		ug/L	163989	50	07/19/2012 15:52	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	IDW-1 (WATER)
Project Name:	Fashion Care	**Collection Date:**	7/13/2012 1:40:00 PM
Lab ID:	1207894-024	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
Tetrachloroethene	170	5.0		ug/L	163989	1	07/19/2012 01:54	GK
Toluene	520	250		ug/L	163989	50	07/19/2012 15:52	GK
trans-1,2-Dichloroethene	22	5.0		ug/L	163989	1	07/19/2012 01:54	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
Trichloroethene	46	5.0		ug/L	163989	1	07/19/2012 01:54	GK
Trichlorofluoromethane	BRL	5.0		ug/L	163989	1	07/19/2012 01:54	GK
Vinyl chloride	80	2.0		ug/L	163989	1	07/19/2012 01:54	GK
Surr: 4-Bromofluorobenzene	87.3	67.4-123		%REC	163989	50	07/19/2012 15:52	GK
Surr: 4-Bromofluorobenzene	97.1	67.4-123		%REC	163989	1	07/19/2012 01:54	GK
Surr: Dibromofluoromethane	97	75.5-128		%REC	163989	50	07/19/2012 15:52	GK
Surr: Dibromofluoromethane	92.6	75.5-128		%REC	163989	1	07/19/2012 01:54	GK
Surr: Toluene-d8	85.5	70-120		%REC	163989	50	07/19/2012 15:52	GK
Surr: Toluene-d8	101	70-120		%REC	163989	1	07/19/2012 01:54	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	IDW-2 (WATER)
Project Name:	Fashion Care	**Collection Date:**	7/13/2012 1:50:00 PM
Lab ID:	1207894-025	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
1,1-Dichloroethane	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
1,1-Dichloroethene	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
1,2-Dibromoethane	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
1,2-Dichloroethane	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
1,2-Dichloropropane	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
2-Butanone	BRL	50		ug/L	163989	1	07/19/2012 02:22	GK
2-Hexanone	BRL	10		ug/L	163989	1	07/19/2012 02:22	GK
4-Methyl-2-pentanone	BRL	10		ug/L	163989	1	07/19/2012 02:22	GK
Acetone	BRL	50		ug/L	163989	1	07/19/2012 02:22	GK
Benzene	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
Bromodichloromethane	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
Bromoform	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
Bromomethane	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
Carbon disulfide	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
Carbon tetrachloride	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
Chlorobenzene	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
Chloroethane	BRL	10		ug/L	163989	1	07/19/2012 02:22	GK
Chloroform	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
Chloromethane	BRL	10		ug/L	163989	1	07/19/2012 02:22	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
Cyclohexane	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
Dibromochloromethane	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
Dichlorodifluoromethane	BRL	10		ug/L	163989	1	07/19/2012 02:22	GK
Ethylbenzene	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
Freon-113	BRL	10		ug/L	163989	1	07/19/2012 02:22	GK
Isopropylbenzene	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
m,p-Xylene	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
Methyl acetate	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
Methyl tert-butyl ether	91	5.0		ug/L	163989	1	07/19/2012 02:22	GK
Methylcyclohexane	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
Methylene chloride	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
o-Xylene	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 24-Jul-12

Client:	Winter Environmental	**Client Sample ID:**	IDW-2 (WATER)
Project Name:	Fashion Care	**Collection Date:**	7/13/2012 1:50:00 PM
Lab ID:	1207894-025	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
Tetrachloroethene	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
Toluene	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
Trichloroethene	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
Trichlorofluoromethane	BRL	5.0		ug/L	163989	1	07/19/2012 02:22	GK
Vinyl chloride	BRL	2.0		ug/L	163989	1	07/19/2012 02:22	GK
Surr: 4-Bromofluorobenzene	94.2	67.4-123		%REC	163989	1	07/19/2012 02:22	GK
Surr: Dibromofluoromethane	82	75.5-128		%REC	163989	1	07/19/2012 02:22	GK
Surr: Toluene-d8	95.1	70-120		%REC	163989	1	07/19/2012 02:22	GK

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Winter Environmental Work Order Number 1207894

Checklist completed by Sam B 7/13/12
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

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

Cooler #1 3.1° Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1207894

ANALYTICAL QC SUMMARY REPORT

BatchID: 163970

Sample ID: **MB-163970** Client ID: Units: **ug/L** Prep Date: **07/17/2012** Run No: **225243**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **163970** Analysis Date: **07/17/2012** Seq No: **4714590**

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

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1207894

ANALYTICAL QC SUMMARY REPORT

BatchID: 163970

Sample ID: **MB-163970** Client ID: Units: **ug/L** Prep Date: **07/17/2012** Run No: **225243**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **163970** Analysis Date: **07/17/2012** Seq No: **4714590**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	40.03	0	50	0	80.1	67.4	123	0	0	0	
Surr: Dibromofluoromethane	51.82	0	50	0	104	75.5	128	0	0	0	
Surr: Toluene-d8	46.81	0	50	0	93.6	70	120	0	0	0	

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1207894

ANALYTICAL QC SUMMARY REPORT

BatchID: **163970**

Sample ID: **LCS-163970** Client ID: Units: **ug/L** Prep Date: **07/17/2012** Run No: **225243**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **163970** Analysis Date: **07/17/2012** Seq No: **4714587**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	62.88	5.0	50	0	126	60	140	0	0	0	
Benzene	60.51	5.0	50	0	121	70	130	0	0	0	
Chlorobenzene	49.29	5.0	50	0	98.6	70	130	0	0	0	
Toluene	55.94	5.0	50	0	112	70	130	0	0	0	
Trichloroethene	47.67	5.0	50	0	95.3	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	53.42	0	50	0	107	67.4	123	0	0	0	
Surr: Dibromofluoromethane	51.92	0	50	0	104	75.5	128	0	0	0	
Surr: Toluene-d8	48.99	0	50	0	98	70	120	0	0	0	

Sample ID: **1207894-007AMS** Client ID: **FMW-2** Units: **ug/L** Prep Date: **07/17/2012** Run No: **225243**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **163970** Analysis Date: **07/17/2012** Seq No: **4714588**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	6593	500	5000	0	132	50.1	179	0	0	0	
Benzene	19170	500	5000	12870	126	61.2	150	0	0	0	
Chlorobenzene	4943	500	5000	0	98.9	72.1	140	0	0	0	
Toluene	13860	500	5000	7880	120	58.7	154	0	0	0	
Trichloroethene	5087	500	5000	0	102	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	5363	0	5000	0	107	67.4	123	0	0	0	
Surr: Dibromofluoromethane	4845	0	5000	0	96.9	75.5	128	0	0	0	
Surr: Toluene-d8	5041	0	5000	0	101	70	120	0	0	0	

Sample ID: **1207894-007AMSD** Client ID: **FMW-2** Units: **ug/L** Prep Date: **07/17/2012** Run No: **225243**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **163970** Analysis Date: **07/17/2012** Seq No: **4714589**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	6260	500	5000	0	125	50.1	179	6593	5.18	23.3	
Benzene	18950	500	5000	12870	121	61.2	150	19170	1.15	19	

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1207894

ANALYTICAL QC SUMMARY REPORT

BatchID: 163970

Sample ID: **1207894-007AMSD** Client ID: **FMW-2** Units: **ug/L** Prep Date: **07/17/2012** Run No: **225243**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **163970** Analysis Date: **07/17/2012** Seq No: **4714589**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	4929	500	5000	0	98.6	72.1	140	4943	0.284	21.5	
Toluene	13750	500	5000	7880	117	58.7	154	13860	0.826	20	
Trichloroethene	4889	500	5000	0	97.8	68.3	149	5087	3.97	17.7	
Surr: 4-Bromofluorobenzene	5276	0	5000	0	106	67.4	123	5363	0	0	
Surr: Dibromofluoromethane	4911	0	5000	0	98.2	75.5	128	4845	0	0	
Surr: Toluene-d8	4997	0	5000	0	99.9	70	120	5041	0	0	

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1207894

ANALYTICAL QC SUMMARY REPORT

BatchID: 163989

Sample ID: **MB-163989** Client ID: Units: **ug/L** Prep Date: **07/18/2012** Run No: **225267**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **163989** Analysis Date: **07/18/2012** Seq No: **4715113**

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

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1207894

ANALYTICAL QC SUMMARY REPORT

BatchID: 163989

Sample ID: **MB-163989** Client ID: Units: **ug/L** Prep Date: **07/18/2012** Run No: **225267**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **163989** Analysis Date: **07/18/2012** Seq No: **4715113**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	40.67	0	50	0	81.3	67.4	123	0	0	0	
Surr: Dibromofluoromethane	49.96	0	50	0	99.9	75.5	128	0	0	0	
Surr: Toluene-d8	47.54	0	50	0	95.1	70	120	0	0	0	

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1207894

ANALYTICAL QC SUMMARY REPORT

BatchID: 163989

Sample ID: **LCS-163989** Client ID: Units: **ug/L** Prep Date: **07/18/2012** Run No: **225267**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **163989** Analysis Date: **07/18/2012** Seq No: **4715104**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	62.58	5.0	50	0	125	60	140	0	0	0	
Benzene	62.28	5.0	50	0	125	70	130	0	0	0	
Chlorobenzene	53.35	5.0	50	0	107	70	130	0	0	0	
Toluene	60.84	5.0	50	0	122	70	130	0	0	0	
Trichloroethene	53.44	5.0	50	0	107	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	52.95	0	50	0	106	67.4	123	0	0	0	
Surr: Dibromofluoromethane	51.66	0	50	0	103	75.5	128	0	0	0	
Surr: Toluene-d8	51.02	0	50	0	102	70	120	0	0	0	

Sample ID: **1207894-021AMS** Client ID: **SB-26** Units: **ug/L** Prep Date: **07/18/2012** Run No: **225267**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **163989** Analysis Date: **07/18/2012** Seq No: **4715107**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	5715	500	5000	0	114	50.1	179	0	0	0	
Benzene	6021	500	5000	371.0	113	61.2	150	0	0	0	
Chlorobenzene	4609	500	5000	0	92.2	72.1	140	0	0	0	
Toluene	5613	500	5000	0	112	58.7	154	0	0	0	
Trichloroethene	14980	500	5000	10710	85.4	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	5430	0	5000	0	109	67.4	123	0	0	0	
Surr: Dibromofluoromethane	4889	0	5000	0	97.8	75.5	128	0	0	0	
Surr: Toluene-d8	4937	0	5000	0	98.7	70	120	0	0	0	

Sample ID: **1207894-021AMSD** Client ID: **SB-26** Units: **ug/L** Prep Date: **07/18/2012** Run No: **225267**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **163989** Analysis Date: **07/18/2012** Seq No: **4715110**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	5870	500	5000	0	117	50.1	179	5715	2.68	23.3	
Benzene	6082	500	5000	371.0	114	61.2	150	6021	1.01	19	

Qualifiers:

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

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1207894

ANALYTICAL QC SUMMARY REPORT

BatchID: 163989

Sample ID: **1207894-021AMSD** Client ID: **SB-26** Units: **ug/L** Prep Date: **07/18/2012** Run No: **225267**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **163989** Analysis Date: **07/18/2012** Seq No: **4715110**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	4758	500	5000	0	95.2	72.1	140	4609	3.18	21.5	
Toluene	5582	500	5000	0	112	58.7	154	5613	0.554	20	
Trichloroethene	15970	500	5000	10710	105	68.3	149	14980	6.42	17.7	
Surr: 4-Bromofluorobenzene	5331	0	5000	0	107	67.4	123	5430	0	0	
Surr: Dibromofluoromethane	5287	0	5000	0	106	75.5	128	4889	0	0	
Surr: Toluene-d8	4937	0	5000	0	98.7	70	120	4937	0	0	

Qualifiers:

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

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

April 04, 2013

Len Diprima
Woodard & Curran
2055 Sugarloaf Cir #175
Duluth GA 30097

TEL: (770) 622-6766
FAX: (770) 396-0095

RE: Fashion Care

Dear Len Diprima: Order No: 1303O29

Analytical Environmental Services, Inc. received 1 samples on 3/29/2013 11:06:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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

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

Chantelle Kanhai
Project Manager

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

CHAIN OF CUSTODY

Work Order: 1303029

Date: 3-29-13 Page 1 of 1

COMPANY: Woodard & Curran

ADDRESS: 2055 Sugarloaf Circle / Suite 175, Duluth GA 30097

PHONE: 770.622.6766

FAX: 770.396.0095

SAMPLED BY:

SIGNATURE:

ANALYSIS REQUESTED: TCL VOCs

PRESERVATION (See codes): H

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	TCL VOCs (H)	REMARKS	No # of Containers
1	FMW-17	3-29-13	1030	Y		GW	X		2
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: [signature]	3-29-13 / 1106	1: [signature]	3/29/13 11:06
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: Fashion Care
PROJECT #: 0226203.00
SITE ADDRESS: 2211 Savoy Dr Atlanta GA.
SEND REPORT TO: Ken Dipirima
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers: 2

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

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

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

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

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc **Date:** 4-Apr-13

Client:	Woodard & Curran	**Client Sample ID:**	FMW-17
Project Name:	Fashion Care	**Collection Date:**	3/29/2013 10:30:00 AM
Lab ID:	1303O29-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,1-Dichloroethane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,1-Dichloroethene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,2-Dibromoethane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,2-Dichloroethane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,2-Dichloropropane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
2-Butanone	BRL	50		ug/L	174318	1	04/03/2013 17:52	YT
2-Hexanone	BRL	10		ug/L	174318	1	04/03/2013 17:52	YT
4-Methyl-2-pentanone	BRL	10		ug/L	174318	1	04/03/2013 17:52	YT
Acetone	BRL	50		ug/L	174318	1	04/03/2013 17:52	YT
Benzene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Bromodichloromethane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Bromoform	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Bromomethane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Carbon disulfide	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Carbon tetrachloride	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Chlorobenzene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Chloroethane	BRL	10		ug/L	174318	1	04/03/2013 17:52	YT
Chloroform	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Chloromethane	BRL	10		ug/L	174318	1	04/03/2013 17:52	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Cyclohexane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Dibromochloromethane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Dichlorodifluoromethane	BRL	10		ug/L	174318	1	04/03/2013 17:52	YT
Ethylbenzene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Freon-113	BRL	10		ug/L	174318	1	04/03/2013 17:52	YT
Isopropylbenzene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
m,p-Xylene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Methyl acetate	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Methylcyclohexane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Methylene chloride	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
o-Xylene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 4-Apr-13

Client:	Woodard & Curran	**Client Sample ID:**	FMW-17
Project Name:	Fashion Care	**Collection Date:**	3/29/2013 10:30:00 AM
Lab ID:	1303O29-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Tetrachloroethene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Toluene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Trichloroethene	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Trichlorofluoromethane	BRL	5.0		ug/L	174318	1	04/03/2013 17:52	YT
Vinyl chloride	BRL	2.0		ug/L	174318	1	04/03/2013 17:52	YT
Surr: 4-Bromofluorobenzene	81.2	64.6-123		%REC	174318	1	04/03/2013 17:52	YT
Surr: Dibromofluoromethane	102	76.6-133		%REC	174318	1	04/03/2013 17:52	YT
Surr: Toluene-d8	96.5	77.8-120		%REC	174318	1	04/03/2013 17:52	YT

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Woodard Work Order Number 1303029

Checklist completed by [signature] 3/29/13
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

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

Cooler #1 3.1 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Analytical Environmental Services, Inc

Date: 4-Apr-13

Client: Woodard & Curran
Project Name: Fashion Care
Workorder: 1303O29

ANALYTICAL QC SUMMARY REPORT

BatchID: 174318

Sample ID: **MB-174318** Client ID: Units: **ug/L** Prep Date: **04/02/2013** Run No: **241283**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **174318** Analysis Date: **04/02/2013** Seq No: **5051315**

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

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 4-Apr-13

Client: Woodard & Curran
Project Name: Fashion Care
Workorder: 1303O29

ANALYTICAL QC SUMMARY REPORT

BatchID: 174318

Sample ID: **MB-174318** Client ID: Units: **ug/L** Prep Date: **04/02/2013** Run No: **241283**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **174318** Analysis Date: **04/02/2013** Seq No: **5051315**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	42.78	0	50	0	85.6	64.6	123	0	0	0	
Surr: Dibromofluoromethane	50.04	0	50	0	100	76.6	133	0	0	0	
Surr: Toluene-d8	47.84	0	50	0	95.7	77.8	120	0	0	0	

Qualifiers:

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

Client: Woodard & Curran
Project Name: Fashion Care
Workorder: 1303O29

ANALYTICAL QC SUMMARY REPORT

BatchID: 174318

Sample ID: **LCS-174318** Client ID: Units: **ug/L** Prep Date: **04/02/2013** Run No: **241283**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **174318** Analysis Date: **04/02/2013** Seq No: **5051314**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	49.83	5.0	50	0	99.7	61.1	142	0	0	0	
Benzene	51.10	5.0	50	0	102	73.5	130	0	0	0	
Chlorobenzene	45.82	5.0	50	0	91.6	72.4	123	0	0	0	
Toluene	49.24	5.0	50	0	98.5	73.6	130	0	0	0	
Trichloroethene	44.44	5.0	50	0	88.9	70	135	0	0	0	
Surr: 4-Bromofluorobenzene	53.36	0	50	0	107	64.6	123	0	0	0	
Surr: Dibromofluoromethane	50.54	0	50	0	101	76.6	133	0	0	0	
Surr: Toluene-d8	50.32	0	50	0	101	77.8	120	0	0	0	

Sample ID: **1303P45-013AMS** Client ID: Units: **ug/L** Prep Date: **04/02/2013** Run No: **241283**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **174318** Analysis Date: **04/02/2013** Seq No: **5053010**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	631.9	50	500	0	126	60	168	0	0	0	
Benzene	537.8	50	500	15.90	104	66.6	148	0	0	0	
Chlorobenzene	455.6	50	500	0	91.1	71.9	135	0	0	0	
Toluene	539.0	50	500	43.60	99.1	68	149	0	0	0	
Trichloroethene	488.4	50	500	21.90	93.3	71.1	154	0	0	0	
Surr: 4-Bromofluorobenzene	545.5	0	500	0	109	64.6	123	0	0	0	
Surr: Dibromofluoromethane	515.0	0	500	0	103	76.6	133	0	0	0	
Surr: Toluene-d8	502.0	0	500	0	100	77.8	120	0	0	0	

Sample ID: **1303P45-013AMSD** Client ID: Units: **ug/L** Prep Date: **04/02/2013** Run No: **241283**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **174318** Analysis Date: **04/02/2013** Seq No: **5053012**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	588.8	50	500	0	118	60	168	631.9	7.06	18.6	
Benzene	531.3	50	500	15.90	103	66.6	148	537.8	1.22	20	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 4-Apr-13

Client: Woodard & Curran
Project Name: Fashion Care
Workorder: 1303O29

ANALYTICAL QC SUMMARY REPORT

BatchID: 174318

Sample ID: **1303P45-013AMSD** Client ID: Units: **ug/L** Prep Date: **04/02/2013** Run No: **241283**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **174318** Analysis Date: **04/02/2013** Seq No: **5053012**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	444.3	50	500	0	88.9	71.9	135	455.6	2.51	20	
Toluene	541.6	50	500	43.60	99.6	68	149	539.0	0.481	20	
Trichloroethene	468.5	50	500	21.90	89.3	71.1	154	488.4	4.16	20	
Surr: 4-Bromofluorobenzene	534.8	0	500	0	107	64.6	123	545.5	0	0	
Surr: Dibromofluoromethane	533.1	0	500	0	107	76.6	133	515.0	0	0	
Surr: Toluene-d8	516.3	0	500	0	103	77.8	120	502.0	0	0	

Qualifiers:

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

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 07, 2008

Trina Barron
Stantec Consulting
1600 Oakbrook Dr
Suite 510
Norcross, GA 30093
TEL: (678) 389-3661
FAX: (678) 389-3701

RE: N. Peachtree GUST EZ Serve 8102

Order No.: 0806534

Dear Trina Barron:

Analytical Environmental Services, Inc. received 32 samples on 6/9/2008 12:50:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/08-06/30/09.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 08/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 94 total pages (including cover letter).

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

Sincerely,

Justin Sasser
Project Manager
Revision: Per Client request, VOC select list has been updated

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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

CHAIN OF CUSTODY

Work Order: 0806534

Date: 6-9-08 Page 1 of 3

COMPANY: STANTEC Consulting

ADDRESS: 1600 OAKBROOK Drive Suite 610 Norcross, GA 30093

PHONE: 678-389-3661

FAX:

SAMPLED BY: Jason Sills / Mark Bryant

SIGNATURE: [signature]

ANALYSIS REQUESTED: 8270 CAH, 8260*

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	8270 CAH	8260*	REMARKS	No # of Containers
1	MW-20	6-7-08	0840	X		GW	2	2		4
2	RW-05		0856				2	2		4
3	MW-16		0920				2	2		4
4	MW-2R		0937				2	2		4
5	MW-22		1010				2	2		4
6	MW-03		1020				2	2		4
7	RW-04		1040				2	2		4
8	RW-03		1100				2	2		4
9	MW-15		1120				2	2		4
10	MW-12		1150				2	2		4
11	MW-23D		1220				2	2		4
12	MW-09R		1340				2	2		4
13	MW-08		1405				2	2		4
14	RW-12		1425				2	2		4

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: [signature]	6-9-08 1250	1: [signature]	6/9/8 12:30
2:		2:	
3:		3:	

PROJECT INFORMATION

PROJECT NAME: N. Peachtree Gust E2 Serve 8102

PROJECT #:

SITE ADDRESS: 4308 N. Peachtree Rd. Chamblee, GA

SEND REPORT TO: Trina Barron

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 56/118

Turnaround Time Request
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same Day Rush (auth req.)
- [ ] Other

STATE PROGRAM (if any): GUST

E-mail? Y / N. Fax? Y / N

DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS: * BTEX, MTBE, TAME, DPE, ETBE, TBA, 1-2 DCA

SHIPMENT METHOD
OUT / / VIA
IN / / VIA
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

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

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

White Copy - Original; Yellow Copy - Client

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

CHAIN OF CUSTODY

Work Order: 0806534

Date: 6/9/08 Page 2 of 2

COMPANY: STANTEC Consulting

ADDRESS: 1600 OAKBrook Drive Suite 510 Norcross, GA 30093

PHONE: 678-389-3661

FAX:

SAMPLED BY: J.S. Hs / Mark Bard

SIGNATURE: [signature]

ANALYSIS REQUESTED: 8270 PAH; 8260 *

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	8270 PAH	8260 *	REMARKS	No # of Containers
1	✓ RW-13	6-7-08	1501	X			2	2		4
2	RW-11		1520				2	2		4
3	MW-18		1540				2	2		4
4	✓ MW-19		1600				2	2		4
5	MW-4R		1620				2	2		4
6	RW-06		1640				2	2		4
7	✓ RW-10		1655				2	2		4
8	✓ MW-11	6-8-08	1029				2	2		4
9	RW-01		1150				2	2		4
10	RW-02		1230				2	2		4
11	✓ MW-21		1340				2	2		4
12	✓ RW-08		1430				2	2		4
13	MW-13		1600				2	2		4
14	✓ MW-14		1700				2	2		4

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: [signature]	6-9-08	1: [signature]	6/9/8
2:		2:	12:00
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: N. Peachtree GUST EZ Serve 8102
PROJECT #:
SITE ADDRESS: 4308 N. Peachtree Rd. Chamblee, GA
SEND REPORT TO: Trina Barron
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers: 56/118

Turnaround Time Request
- (X) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other

STATE PROGRAM (if any):
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

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

CHAIN OF CUSTODY

Work Order: _____

Date: _____ Page 3 of 3

COMPANY: STANTEC Consulting

ADDRESS: 1600 Oakbrook Drive Suite 510 Norcross GA 30093

PHONE: 678-389-3661

FAX:

SAMPLED BY: Mark Bard

SIGNATURE: [signature]

ANALYSIS REQUESTED

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	8270	8260	REMARKS	No # of Containers
1	RW-09	6-8-08	1600				2	2		4
2	TRIP Blank	6-8-08	NA				0	2		2
3	TRIP Blank	[illegible]	NA							
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1. Mark Bard	6-9-08 1250	1. [signature]	6/9/8 12:50
2.		2.	
3.		3.	

PROJECT INFORMATION

PROJECT NAME: N Peachtree GUST E2 Serv 8102

PROJECT #:

SITE ADDRESS: 4308 N. Peachtree St. Chamblee, GA

SEND REPORT TO: Trina Barron

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: _____ PO#: _____

RECEIPT

Total # of Containers: 6/11

Turnaround Time Request
- (X) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other _____

STATE PROGRAM (if any): GUST

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

DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS: * BTEX, MTBE, TAME, DPE, ETBE, TBA, 1-2 DCA

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

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

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

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client STANTEC Work Order Number 0R05.34

Checklist completed by [signature] 6/9/8
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

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

Cooler #1 3.4° Cooler #2 2.9° Cooler #3 3.7° Cooler #4 3.6° Cooler#5 2.5° Cooler #6 2.8°

Chain of custody present? Yes ✓ No __ #7 3.4°

Chain of custody signed when relinquished and received? Yes ✓ No __ #8 3°

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by MJ

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Analytical Environmental Services, Inc. **Date:** *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab Order: 0806534

CASE NARRATIVE

Three sets of Trip Blanks were provided. Trip Blanks were logged in as Trip Blank 1, Trip Blank 2, and Trip Blank 3 and analyzed at no cost to the client.

Volatile Organic Compounds Analysis by Method 8260B:

Benzene and Toluene values for the QC samples 0806534-024AMS/MSD are "E" qualified indicating estimated values over linear calibration range due to the level of target analyte present in the unspiked sample.

Tetrachloroethene and Trichloroethene values for sample 0806534-011A are "E" qualified indicating estimated values over linear calibration range. Sample was not diluted and reanalyzed due to analytes not being evaluated at the time of analysis

Acetone and 2-Butanone values for sample 0806534-024A are "E" qualified indicating estimated values over linear calibration range. Sample was not diluted and reanalyzed due to analytes not being evaluated at the time of analysis

cis-1,2-Dichloroethene value for sample 0806534-028A is "E" qualified indicating an estimated value over linear calibration range. Sample was not diluted further and reanalyzed due to analyte not being evaluated at the time of analysis

The reporting limit for Tetrachloroethene on samples 0806534-019A (13 µg/L), -020A (9 µg/L), and -025A (6 µg/L) are elevated due to contamination and analyte not being evaluated at the time of analysis.

Semivolatile Organic Compounds Analysis by Method 8270C:

LCS-100447 recovery for Acenaphthylene was outside control limits biased high. Target analyte was not detected in the analytical samples and data is reportable with high bias.

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-001

Client Sample ID: MW-20
Collection Date: 6/7/2008 8:40:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		**Analyst: YH**
Naphthalene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Fluorene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Anthracene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Pyrene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Chrysene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Surr: Nitrobenzene-d5	93.0	30.2-123		%REC	100447	1	6/11/2008 9:56 PM
Surr: 2-Fluorobiphenyl	90.3	47.4-115		%REC	100447	1	6/11/2008 9:56 PM
Surr: 4-Terphenyl-d14	80.1	57.5-129		%REC	100447	1	6/11/2008 9:56 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		**Analyst: CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 11:21 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 11:21 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 11:21 AM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 11:21 AM
Benzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-001

Client Sample ID: MW-20
Collection Date: 6/7/2008 8:40:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 11:21 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 11:21 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Cyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 11:21 AM
Ethylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 11:21 AM
Isopropylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
m,p-Xylene	BRL	10		ug/L	100596	1	6/13/2008 11:21 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Methyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Methylcyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
o-Xylene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Toluene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 11:21 AM
Surr: 4-Bromofluorobenzene	83.4	60.4-132		%REC	100596	1	6/13/2008 11:21 AM
Surr: Dibromofluoromethane	94.5	76.2-120		%REC	100596	1	6/13/2008 11:21 AM
Surr: Toluene-d8	91.5	73.3-124		%REC	100596	1	6/13/2008 11:21 AM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-002

Client Sample ID: RW-05
Collection Date: 6/7/2008 8:56:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: YH
Naphthalene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Fluorene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Anthracene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Pyrene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Chrysene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Surr: Nitrobenzene-d5	95.1	30.2-123		%REC	100447	1	6/11/2008 10:22 PM
Surr: 2-Fluorobiphenyl	94.1	47.4-115		%REC	100447	1	6/11/2008 10:22 PM
Surr: 4-Terphenyl-d14	71.9	57.5-129		%REC	100447	1	6/11/2008 10:22 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: CAB
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 3:00 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 3:00 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 3:00 AM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 3:00 AM
Benzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-002

Client Sample ID: RW-05
Collection Date: 6/7/2008 8:56:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 3:00 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 3:00 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Cyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 3:00 AM
Ethylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 3:00 AM
Isopropylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
m,p-Xylene	BRL	10		ug/L	100596	1	6/13/2008 3:00 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Methyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Methylcyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
o-Xylene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Toluene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 3:00 AM
Surr: 4-Bromofluorobenzene	84.9	60.4-132		%REC	100596	1	6/13/2008 3:00 AM
Surr: Dibromofluoromethane	92.2	76.2-120		%REC	100596	1	6/13/2008 3:00 AM
Surr: Toluene-d8	90.4	73.3-124		%REC	100596	1	6/13/2008 3:00 AM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-003

Client Sample ID: MW-16
Collection Date: 6/7/2008 9:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS		**SW8270C**			**(SW3510)**		Analyst: **YH**
Naphthalene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Fluorene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Anthracene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Pyrene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Chrysene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Surr: Nitrobenzene-d5	95.6	30.2-123		%REC	100447	1	6/11/2008 10:48 PM
Surr: 2-Fluorobiphenyl	96.1	47.4-115		%REC	100447	1	6/11/2008 10:48 PM
Surr: 4-Terphenyl-d14	89.0	57.5-129		%REC	100447	1	6/11/2008 10:48 PM
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 3:28 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 3:28 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 3:28 AM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 3:28 AM
Benzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-003

Client Sample ID: MW-16
Collection Date: 6/7/2008 9:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 3:28 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 3:28 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Cyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 3:28 AM
Ethylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 3:28 AM
Isopropylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
m,p-Xylene	BRL	10		ug/L	100596	1	6/13/2008 3:28 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Methyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Methylcyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
o-Xylene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Toluene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 3:28 AM
Surr: 4-Bromofluorobenzene	85.7	60.4-132		%REC	100596	1	6/13/2008 3:28 AM
Surr: Dibromofluoromethane	93.9	76.2-120		%REC	100596	1	6/13/2008 3:28 AM
Surr: Toluene-d8	92.4	73.3-124		%REC	100596	1	6/13/2008 3:28 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-004

Client Sample ID: MW-2R
Collection Date: 6/7/2008 9:37:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		**Analyst: YH**
Naphthalene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Fluorene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Anthracene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Pyrene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Chrysene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Surr: Nitrobenzene-d5	96.5	30.2-123		%REC	100447	1	6/11/2008 4:51 PM
Surr: 2-Fluorobiphenyl	101	47.4-115		%REC	100447	1	6/11/2008 4:51 PM
Surr: 4-Terphenyl-d14	74.3	57.5-129		%REC	100447	1	6/11/2008 4:51 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		**Analyst: CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 11:48 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 11:48 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 11:48 AM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 11:48 AM
Benzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-004

Client Sample ID: MW-2R
Collection Date: 6/7/2008 9:37:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 11:48 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 11:48 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Cyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 11:48 AM
Ethylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 11:48 AM
Isopropylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
m,p-Xylene	BRL	10		ug/L	100596	1	6/13/2008 11:48 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Methyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Methylcyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
o-Xylene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Toluene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 11:48 AM
Surr: 4-Bromofluorobenzene	87.7	60.4-132		%REC	100596	1	6/13/2008 11:48 AM
Surr: Dibromofluoromethane	97.5	76.2-120		%REC	100596	1	6/13/2008 11:48 AM
Surr: Toluene-d8	89.4	73.3-124		%REC	100596	1	6/13/2008 11:48 AM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-005

Client Sample ID: MW-22
Collection Date: 6/7/2008 10:10:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		**Analyst: YH**
Naphthalene	53	10		ug/L	100447	1	6/11/2008 11:14 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
1-Methylnaphthalene	20	10		ug/L	100447	1	6/11/2008 11:14 PM
2-Methylnaphthalene	36	10		ug/L	100447	1	6/11/2008 11:14 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Fluorene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Anthracene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Pyrene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Chrysene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Surr: Nitrobenzene-d5	91.9	30.2-123		%REC	100447	1	6/11/2008 11:14 PM
Surr: 2-Fluorobiphenyl	92.9	47.4-115		%REC	100447	1	6/11/2008 11:14 PM
Surr: 4-Terphenyl-d14	83.5	57.5-129		%REC	100447	1	6/11/2008 11:14 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		**Analyst: CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 3:56 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 3:56 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 3:56 AM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 3:56 AM
Benzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-005

Client Sample ID: MW-22
Collection Date: 6/7/2008 10:10:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 3:56 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 3:56 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Cyclohexane	53	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 3:56 AM
Ethylbenzene	57	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 3:56 AM
Isopropylbenzene	27	5.0		ug/L	100596	1	6/13/2008 3:56 AM
m,p-Xylene	70	10		ug/L	100596	1	6/13/2008 3:56 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Methyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Methylcyclohexane	43	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
o-Xylene	150	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Toluene	21	5.0		ug/L	100596	1	6/13/2008 3:56 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 3:56 AM
Surr: 4-Bromofluorobenzene	90.8	60.4-132		%REC	100596	1	6/13/2008 3:56 AM
Surr: Dibromofluoromethane	91.9	76.2-120		%REC	100596	1	6/13/2008 3:56 AM
Surr: Toluene-d8	92.0	73.3-124		%REC	100596	1	6/13/2008 3:56 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-006

Client Sample ID: MW-03
Collection Date: 6/7/2008 10:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	280	100		ug/L	100447	10	6/12/2008 6:09 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
1-Methylnaphthalene	110	10		ug/L	100447	1	6/11/2008 11:41 PM
2-Methylnaphthalene	210	100		ug/L	100447	10	6/12/2008 6:09 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Fluorene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Anthracene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Pyrene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Chrysene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Surr: Nitrobenzene-d5	97.3	30.2-123		%REC	100447	1	6/11/2008 11:41 PM
Surr: 2-Fluorobiphenyl	91.6	47.4-115		%REC	100447	1	6/11/2008 11:41 PM
Surr: 4-Terphenyl-d14	85.0	57.5-129		%REC	100447	1	6/11/2008 11:41 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 4:23 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 4:23 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 4:23 AM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 4:23 AM
Benzene	68	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-006

Client Sample ID: MW-03
Collection Date: 6/7/2008 10:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 4:23 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 4:23 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Cyclohexane	130	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 4:23 AM
Ethylbenzene	860	100		ug/L	100596	20	6/13/2008 1:34 PM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 4:23 AM
Isopropylbenzene	95	5.0		ug/L	100596	1	6/13/2008 4:23 AM
m,p-Xylene	2800	200		ug/L	100596	20	6/13/2008 1:34 PM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Methyl tert-butyl ether	38	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Methylcyclohexane	200	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
o-Xylene	1300	100		ug/L	100596	20	6/13/2008 1:34 PM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Toluene	220	100		ug/L	100596	20	6/13/2008 1:34 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 4:23 AM
Surr: 4-Bromofluorobenzene	96.7	60.4-132		%REC	100596	1	6/13/2008 4:23 AM
Surr: 4-Bromofluorobenzene	104	60.4-132		%REC	100596	20	6/13/2008 1:34 PM
Surr: Dibromofluoromethane	90.8	76.2-120		%REC	100596	20	6/13/2008 1:34 PM
Surr: Dibromofluoromethane	89.5	76.2-120		%REC	100596	1	6/13/2008 4:23 AM
Surr: Toluene-d8	95.1	73.3-124		%REC	100596	20	6/13/2008 1:34 PM
Surr: Toluene-d8	96.6	73.3-124		%REC	100596	1	6/13/2008 4:23 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
tert-Butyl Alcohol	210	5.0		ug/L	100596	1	6/13/2008 4:23 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-007

Client Sample ID: RW-04
Collection Date: 6/7/2008 10:40:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	210	100		ug/L	100447	10	6/12/2008 6:39 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
1-Methylnaphthalene	83	10		ug/L	100447	1	6/12/2008 12:08 AM
2-Methylnaphthalene	130	10		ug/L	100447	1	6/12/2008 12:08 AM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Surr: Nitrobenzene-d5	94.2	30.2-123		%REC	100447	1	6/12/2008 12:08 AM
Surr: 2-Fluorobiphenyl	94.3	47.4-115		%REC	100447	1	6/12/2008 12:08 AM
Surr: 4-Terphenyl-d14	89.8	57.5-129		%REC	100447	1	6/12/2008 12:08 AM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 4:51 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 4:51 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 4:51 AM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 4:51 AM
Benzene	180	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-007

Client Sample ID: RW-04
Collection Date: 6/7/2008 10:40:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 4:51 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 4:51 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Cyclohexane	140	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 4:51 AM
Ethylbenzene	580	50		ug/L	100596	10	6/13/2008 2:30 PM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 4:51 AM
Isopropylbenzene	87	5.0		ug/L	100596	1	6/13/2008 4:51 AM
m,p-Xylene	470	100		ug/L	100596	10	6/13/2008 2:30 PM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Methyl tert-butyl ether	75	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Methylcyclohexane	150	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
o-Xylene	48	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Toluene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 4:51 AM
Surr: 4-Bromofluorobenzene	102	60.4-132		%REC	100596	10	6/13/2008 2:30 PM
Surr: 4-Bromofluorobenzene	92.2	60.4-132		%REC	100596	1	6/13/2008 4:51 AM
Surr: Dibromofluoromethane	90.4	76.2-120		%REC	100596	10	6/13/2008 2:30 PM
Surr: Dibromofluoromethane	90.8	76.2-120		%REC	100596	1	6/13/2008 4:51 AM
Surr: Toluene-d8	95.0	73.3-124		%REC	100596	10	6/13/2008 2:30 PM
Surr: Toluene-d8	92.5	73.3-124		%REC	100596	1	6/13/2008 4:51 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Isopropyl ether	6.3	5.0		ug/L	100596	1	6/13/2008 4:51 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-008

Client Sample ID: RW-03
Collection Date: 6/7/2008 11:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		**Analyst: YH**
Naphthalene	96	10		ug/L	100447	1	6/12/2008 12:34 AM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
1-Methylnaphthalene	23	10		ug/L	100447	1	6/12/2008 12:34 AM
2-Methylnaphthalene	41	10		ug/L	100447	1	6/12/2008 12:34 AM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Surr: Nitrobenzene-d5	100	30.2-123		%REC	100447	1	6/12/2008 12:34 AM
Surr: 2-Fluorobiphenyl	97.2	47.4-115		%REC	100447	1	6/12/2008 12:34 AM
Surr: 4-Terphenyl-d14	82.6	57.5-129		%REC	100447	1	6/12/2008 12:34 AM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		**Analyst: CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 5:18 AM
2-Hexanone	53	10		ug/L	100596	1	6/13/2008 5:18 AM
4-Methyl-2-pentanone	20	10		ug/L	100596	1	6/13/2008 5:18 AM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 5:18 AM
Benzene	120	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-008

Client Sample ID: RW-03
Collection Date: 6/7/2008 11:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 5:18 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 5:18 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Cyclohexane	31	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 5:18 AM
Ethylbenzene	180	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 5:18 AM
Isopropylbenzene	62	5.0		ug/L	100596	1	6/13/2008 5:18 AM
m,p-Xylene	210	10		ug/L	100596	1	6/13/2008 5:18 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Methyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Methylcyclohexane	34	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
o-Xylene	300	50		ug/L	100596	10	6/13/2008 2:02 PM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Toluene	31	5.0		ug/L	100596	1	6/13/2008 5:18 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 5:18 AM
Surr: 4-Bromofluorobenzene	101	60.4-132		%REC	100596	10	6/13/2008 2:02 PM
Surr: 4-Bromofluorobenzene	89.2	60.4-132		%REC	100596	1	6/13/2008 5:18 AM
Surr: Dibromofluoromethane	88.2	76.2-120		%REC	100596	10	6/13/2008 2:02 PM
Surr: Dibromofluoromethane	90.5	76.2-120		%REC	100596	1	6/13/2008 5:18 AM
Surr: Toluene-d8	94.0	73.3-124		%REC	100596	10	6/13/2008 2:02 PM
Surr: Toluene-d8	90.8	73.3-124		%REC	100596	1	6/13/2008 5:18 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-009

Client Sample ID: MW-15
Collection Date: 6/7/2008 11:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS		**SW8270C**			**(SW3510)**		Analyst: **EI**
Naphthalene	130	100		ug/L	100447	10	6/12/2008 7:09 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Surr: Nitrobenzene-d5	102	30.2-123		%REC	100447	1	6/12/2008 1:00 AM
Surr: 2-Fluorobiphenyl	98.7	47.4-115		%REC	100447	1	6/12/2008 1:00 AM
Surr: 4-Terphenyl-d14	89.9	57.5-129		%REC	100447	1	6/12/2008 1:00 AM
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 12:16 PM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 12:16 PM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 12:16 PM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 12:16 PM
Benzene	1300	50		ug/L	100596	10	6/13/2008 5:19 PM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-009

Client Sample ID: MW-15
Collection Date: 6/7/2008 11:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 12:16 PM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 12:16 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Cyclohexane	34	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 12:16 PM
Ethylbenzene	13	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 12:16 PM
Isopropylbenzene	27	5.0		ug/L	100596	1	6/13/2008 12:16 PM
m,p-Xylene	BRL	10		ug/L	100596	1	6/13/2008 12:16 PM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Methyl tert-butyl ether	320	50		ug/L	100596	10	6/13/2008 5:19 PM
Methylcyclohexane	29	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
o-Xylene	7.8	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Toluene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 12:16 PM
Surr: 4-Bromofluorobenzene	97.2	60.4-132		%REC	100596	10	6/13/2008 5:19 PM
Surr: 4-Bromofluorobenzene	87.6	60.4-132		%REC	100596	1	6/13/2008 12:16 PM
Surr: Dibromofluoromethane	89.3	76.2-120		%REC	100596	10	6/13/2008 5:19 PM
Surr: Dibromofluoromethane	90.5	76.2-120		%REC	100596	1	6/13/2008 12:16 PM
Surr: Toluene-d8	96.1	73.3-124		%REC	100596	10	6/13/2008 5:19 PM
Surr: Toluene-d8	94.3	73.3-124		%REC	100596	1	6/13/2008 12:16 PM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Isopropyl ether	140	5.0		ug/L	100596	1	6/13/2008 12:16 PM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
tert-Butyl Alcohol	390	5.0		ug/L	100596	1	6/13/2008 12:16 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-010

Client Sample ID: MW-12
Collection Date: 6/7/2008 11:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **YH**
Naphthalene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Surr: Nitrobenzene-d5	90.2	30.2-123		%REC	100447	1	6/12/2008 1:26 AM
Surr: 2-Fluorobiphenyl	94.2	47.4-115		%REC	100447	1	6/12/2008 1:26 AM
Surr: 4-Terphenyl-d14	80.5	57.5-129		%REC	100447	1	6/12/2008 1:26 AM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 12:44 PM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 12:44 PM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 12:44 PM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 12:44 PM
Benzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-010

Client Sample ID: MW-12
Collection Date: 6/7/2008 11:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 12:44 PM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 12:44 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Cyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 12:44 PM
Ethylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 12:44 PM
Isopropylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
m,p-Xylene	BRL	10		ug/L	100596	1	6/13/2008 12:44 PM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Methyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Methylcyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
o-Xylene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Toluene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 12:44 PM
Surr: 4-Bromofluorobenzene	83.2	60.4-132		%REC	100596	1	6/13/2008 12:44 PM
Surr: Dibromofluoromethane	93.5	76.2-120		%REC	100596	1	6/13/2008 12:44 PM
Surr: Toluene-d8	91.2	73.3-124		%REC	100596	1	6/13/2008 12:44 PM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
tert-Butyl Alcohol	460	5.0		ug/L	100596	1	6/13/2008 12:44 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-011

Client Sample ID: MW-23D
Collection Date: 6/7/2008 12:20:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS		**SW8270C**			**(SW3510)**		Analyst: **YH**
Naphthalene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Surr: Nitrobenzene-d5	97.6	30.2-123		%REC	100447	1	6/12/2008 1:52 AM
Surr: 2-Fluorobiphenyl	99.1	47.4-115		%REC	100447	1	6/12/2008 1:52 AM
Surr: 4-Terphenyl-d14	59.4	57.5-129		%REC	100447	1	6/12/2008 1:52 AM
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,2-Dichlorobenzene	5.8	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
2-Butanone	BRL	50		ug/L	100596	1	6/14/2008 1:08 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/14/2008 1:08 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/14/2008 1:08 AM
Acetone	BRL	50		ug/L	100596	1	6/14/2008 1:08 AM
Benzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-011

Client Sample ID: MW-23D
Collection Date: 6/7/2008 12:20:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Chloroethane	BRL	10		ug/L	100596	1	6/14/2008 1:08 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Chloromethane	BRL	10		ug/L	100596	1	6/14/2008 1:08 AM
cis-1,2-Dichloroethene	68	5.0		ug/L	100596	1	6/14/2008 1:08 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Cyclohexane	5.0	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/14/2008 1:08 AM
Ethylbenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Freon-113	BRL	10		ug/L	100596	1	6/14/2008 1:08 AM
Isopropylbenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
m,p-Xylene	BRL	10		ug/L	100596	1	6/14/2008 1:08 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Methyl tert-butyl ether	49	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Methylcyclohexane	5.6	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
o-Xylene	11	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Styrene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Tetrachloroethene	26000	5.0	E	ug/L	100596	1	6/14/2008 1:08 AM
Toluene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Trichloroethene	700	5.0	E	ug/L	100596	1	6/14/2008 1:08 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/14/2008 1:08 AM
Surr: 4-Bromofluorobenzene	89.4	60.4-132		%REC	100596	1	6/14/2008 1:08 AM
Surr: Dibromofluoromethane	93.2	76.2-120		%REC	100596	1	6/14/2008 1:08 AM
Surr: Toluene-d8	91.6	73.3-124		%REC	100596	1	6/14/2008 1:08 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Isopropyl ether	11	5.0		ug/L	100596	1	6/14/2008 1:08 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
tert-Butyl Alcohol	150	5.0		ug/L	100596	1	6/14/2008 1:08 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-012

Client Sample ID: MW-09R
Collection Date: 6/7/2008 1:40:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS		**SW8270C**			**(SW3510)**		Analyst: **EI**
Naphthalene	790	100		ug/L	100447	10	6/12/2008 7:39 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
1-Methylnaphthalene	240	100		ug/L	100447	10	6/12/2008 7:39 PM
2-Methylnaphthalene	450	100		ug/L	100447	10	6/12/2008 7:39 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Surr: Nitrobenzene-d5	97.8	30.2-123		%REC	100447	1	6/12/2008 2:18 AM
Surr: 2-Fluorobiphenyl	97.6	47.4-115		%REC	100447	1	6/12/2008 2:18 AM
Surr: 4-Terphenyl-d14	84.0	57.5-129		%REC	100447	1	6/12/2008 2:18 AM
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 1:12 PM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 1:12 PM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 1:12 PM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 1:12 PM
Benzene	1800	100		ug/L	100596	20	6/13/2008 5:48 PM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-012

Client Sample ID: MW-09R
Collection Date: 6/7/2008 1:40:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 1:12 PM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 1:12 PM
cis-1,2-Dichloroethene	110	5.0		ug/L	100596	1	6/13/2008 1:12 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Cyclohexane	110	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 1:12 PM
Ethylbenzene	1800	100		ug/L	100596	20	6/13/2008 5:48 PM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 1:12 PM
Isopropylbenzene	160	5.0		ug/L	100596	1	6/13/2008 1:12 PM
m,p-Xylene	3100	200		ug/L	100596	20	6/13/2008 5:48 PM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Methyl tert-butyl ether	89	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Methylcyclohexane	110	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
o-Xylene	400	100		ug/L	100596	20	6/13/2008 5:48 PM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Tetrachloroethene	120	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Toluene	180	100		ug/L	100596	20	6/13/2008 5:48 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Trichloroethene	21	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 1:12 PM
Surr: 4-Bromofluorobenzene	93.6	60.4-132		%REC	100596	1	6/13/2008 1:12 PM
Surr: 4-Bromofluorobenzene	99.8	60.4-132		%REC	100596	20	6/13/2008 5:48 PM
Surr: Dibromofluoromethane	91.0	76.2-120		%REC	100596	20	6/13/2008 5:48 PM
Surr: Dibromofluoromethane	87.4	76.2-120		%REC	100596	1	6/13/2008 1:12 PM
Surr: Toluene-d8	95.9	73.3-124		%REC	100596	20	6/13/2008 5:48 PM
Surr: Toluene-d8	94.9	73.3-124		%REC	100596	1	6/13/2008 1:12 PM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Isopropyl ether	42	5.0		ug/L	100596	1	6/13/2008 1:12 PM
tert-Amyl methyl ether	110	5.0		ug/L	100596	1	6/13/2008 1:12 PM
tert-Butyl Alcohol	210	5.0		ug/L	100596	1	6/13/2008 1:12 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-013

Client Sample ID: MW-08
Collection Date: 6/7/2008 2:05:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS		**SW8270C**			**(SW3510)**		Analyst: **EI**
Naphthalene	340	100		ug/L	100447	10	6/12/2008 8:08 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
1-Methylnaphthalene	85	10		ug/L	100447	1	6/12/2008 2:45 AM
2-Methylnaphthalene	140	10		ug/L	100447	1	6/12/2008 2:45 AM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Surr: Nitrobenzene-d5	101	30.2-123		%REC	100447	1	6/12/2008 2:45 AM
Surr: 2-Fluorobiphenyl	98.5	47.4-115		%REC	100447	1	6/12/2008 2:45 AM
Surr: 4-Terphenyl-d14	79.8	57.5-129		%REC	100447	1	6/12/2008 2:45 AM
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 1:39 PM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 1:39 PM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 1:39 PM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 1:39 PM
Benzene	1800	500		ug/L	100596	100	6/13/2008 6:18 PM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-013

Client Sample ID: MW-08
Collection Date: 6/7/2008 2:05:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 1:39 PM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 1:39 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Cyclohexane	85	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 1:39 PM
Ethylbenzene	900	500		ug/L	100596	100	6/13/2008 6:18 PM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 1:39 PM
Isopropylbenzene	71	5.0		ug/L	100596	1	6/13/2008 1:39 PM
m,p-Xylene	4300	1000		ug/L	100596	100	6/13/2008 6:18 PM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Methyl tert-butyl ether	22	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Methylcyclohexane	70	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
o-Xylene	1900	500		ug/L	100596	100	6/13/2008 6:18 PM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Toluene	3500	500		ug/L	100596	100	6/13/2008 6:18 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 1:39 PM
Surr: 4-Bromofluorobenzene	94.5	60.4-132		%REC	100596	1	6/13/2008 1:39 PM
Surr: 4-Bromofluorobenzene	101	60.4-132		%REC	100596	100	6/13/2008 6:18 PM
Surr: Dibromofluoromethane	90.6	76.2-120		%REC	100596	100	6/13/2008 6:18 PM
Surr: Dibromofluoromethane	88.0	76.2-120		%REC	100596	1	6/13/2008 1:39 PM
Surr: Toluene-d8	93.2	73.3-124		%REC	100596	100	6/13/2008 6:18 PM
Surr: Toluene-d8	94.5	73.3-124		%REC	100596	1	6/13/2008 1:39 PM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Isopropyl ether	50	5.0		ug/L	100596	1	6/13/2008 1:39 PM
tert-Amyl methyl ether	85	5.0		ug/L	100596	1	6/13/2008 1:39 PM
tert-Butyl Alcohol	30	5.0		ug/L	100596	1	6/13/2008 1:39 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-014

Client Sample ID: RW-12
Collection Date: 6/7/2008 2:25:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	13	10		ug/L	100447	1	6/12/2008 1:16 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Surr: Nitrobenzene-d5	79.8	30.2-123		%REC	100447	1	6/12/2008 1:16 PM
Surr: 2-Fluorobiphenyl	87.7	47.4-115		%REC	100447	1	6/12/2008 1:16 PM
Surr: 4-Terphenyl-d14	86.4	57.5-129		%REC	100447	1	6/12/2008 1:16 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
2-Butanone	BRL	50		ug/L	100596	1	6/14/2008 1:35 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/14/2008 1:35 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/14/2008 1:35 AM
Acetone	BRL	50		ug/L	100596	1	6/14/2008 1:35 AM
Benzene	31	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-014

Client Sample ID: RW-12
Collection Date: 6/7/2008 2:25:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Chloroethane	BRL	10		ug/L	100596	1	6/14/2008 1:35 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Chloromethane	BRL	10		ug/L	100596	1	6/14/2008 1:35 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Cyclohexane	5.7	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/14/2008 1:35 AM
Ethylbenzene	36	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Freon-113	BRL	10		ug/L	100596	1	6/14/2008 1:35 AM
Isopropylbenzene	16	5.0		ug/L	100596	1	6/14/2008 1:35 AM
m,p-Xylene	18	10		ug/L	100596	1	6/14/2008 1:35 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Methyl tert-butyl ether	36	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Methylcyclohexane	9.7	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
o-Xylene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Styrene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:06 PM
Toluene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/14/2008 1:35 AM
Surr: 4-Bromofluorobenzene	89.7	60.4-132		%REC	100596	1	6/13/2008 2:06 PM
Surr: 4-Bromofluorobenzene	90.0	60.4-132		%REC	100596	1	6/14/2008 1:35 AM
Surr: Dibromofluoromethane	88.5	76.2-120		%REC	100596	1	6/13/2008 2:06 PM
Surr: Dibromofluoromethane	93.7	76.2-120		%REC	100596	1	6/14/2008 1:35 AM
Surr: Toluene-d8	92.1	73.3-124		%REC	100596	1	6/14/2008 1:35 AM
Surr: Toluene-d8	92.3	73.3-124		%REC	100596	1	6/13/2008 2:06 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Isopropyl ether	85	5.0		ug/L	100596	1	6/14/2008 1:35 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
tert-Butyl Alcohol	140	5.0		ug/L	100596	1	6/14/2008 1:35 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-015

Client Sample ID: RW-13
Collection Date: 6/7/2008 3:01:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: EI
Naphthalene	730	100		ug/L	100447	10	6/13/2008 6:09 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
1-Methylnaphthalene	160	100		ug/L	100447	10	6/13/2008 6:09 PM
2-Methylnaphthalene	320	100		ug/L	100447	10	6/13/2008 6:09 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Surr: Nitrobenzene-d5	78.7	30.2-123		%REC	100447	1	6/12/2008 1:44 PM
Surr: 2-Fluorobiphenyl	85.5	47.4-115		%REC	100447	1	6/12/2008 1:44 PM
Surr: 4-Terphenyl-d14	87.5	57.5-129		%REC	100447	1	6/12/2008 1:44 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: CAB
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 2:34 PM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 2:34 PM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 2:34 PM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 2:34 PM
Benzene	14000	500		ug/L	100596	100	6/13/2008 11:46 PM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-015

Client Sample ID: RW-13
Collection Date: 6/7/2008 3:01:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 2:34 PM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 2:34 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Cyclohexane	170	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 2:34 PM
Ethylbenzene	3900	500		ug/L	100596	100	6/13/2008 11:46 PM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 2:34 PM
Isopropylbenzene	160	5.0		ug/L	100596	1	6/13/2008 2:34 PM
m,p-Xylene	15000	1000		ug/L	100596	100	6/13/2008 11:46 PM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Methyl tert-butyl ether	6200	500		ug/L	100596	100	6/13/2008 11:46 PM
Methylcyclohexane	92	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
o-Xylene	7100	500		ug/L	100596	100	6/13/2008 11:46 PM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Toluene	41000	5000		ug/L	100596	1000	6/16/2008 11:57 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 2:34 PM
Surr: 4-Bromofluorobenzene	93.8	60.4-132		%REC	100596	1000	6/16/2008 11:57 AM
Surr: 4-Bromofluorobenzene	88.7	60.4-132		%REC	100596	100	6/13/2008 11:46 PM
Surr: 4-Bromofluorobenzene	90.1	60.4-132		%REC	100596	1	6/13/2008 2:34 PM
Surr: Dibromofluoromethane	80.9	76.2-120		%REC	100596	1	6/13/2008 2:34 PM
Surr: Dibromofluoromethane	98.5	76.2-120		%REC	100596	1000	6/16/2008 11:57 AM
Surr: Dibromofluoromethane	90.6	76.2-120		%REC	100596	100	6/13/2008 11:46 PM
Surr: Toluene-d8	101	73.3-124		%REC	100596	1000	6/16/2008 11:57 AM
Surr: Toluene-d8	87.7	73.3-124		%REC	100596	1	6/13/2008 2:34 PM
Surr: Toluene-d8	89.8	73.3-124		%REC	100596	100	6/13/2008 11:46 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-015

Client Sample ID: RW-13
Collection Date: 6/7/2008 3:01:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Isopropyl ether	750	500		ug/L	100596	100	6/13/2008 11:46 PM
tert-Amyl methyl ether	200	5.0		ug/L	100596	1	6/13/2008 2:34 PM
tert-Butyl Alcohol	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-016

Client Sample ID: RW-11
Collection Date: 6/7/2008 3:20:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS		**SW8270C**			**(SW3510)**		Analyst: **EI**
Naphthalene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Surr: Nitrobenzene-d5	81.8	30.2-123		%REC	100447	1	6/12/2008 2:14 PM
Surr: 2-Fluorobiphenyl	84.1	47.4-115		%REC	100447	1	6/12/2008 2:14 PM
Surr: 4-Terphenyl-d14	56.0	57.5-129	S	%REC	100447	1	6/12/2008 2:14 PM
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
2-Butanone	BRL	50		ug/L	100596	1	6/16/2008 10:01 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/16/2008 10:01 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/16/2008 10:01 AM
Acetone	BRL	50		ug/L	100596	1	6/16/2008 10:01 AM
Benzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-016

Client Sample ID: RW-11
Collection Date: 6/7/2008 3:20:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Chloroethane	BRL	10		ug/L	100596	1	6/16/2008 10:01 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Chloromethane	BRL	10		ug/L	100596	1	6/16/2008 10:01 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Cyclohexane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/16/2008 10:01 AM
Ethylbenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Freon-113	BRL	10		ug/L	100596	1	6/16/2008 10:01 AM
Isopropylbenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
m,p-Xylene	BRL	10		ug/L	100596	1	6/16/2008 10:01 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Methyl tert-butyl ether	24	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Methylcyclohexane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
o-Xylene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Styrene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Toluene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/16/2008 10:01 AM
Surr: 4-Bromofluorobenzene	87.5	60.4-132		%REC	100596	1	6/16/2008 10:01 AM
Surr: Dibromofluoromethane	102	76.2-120		%REC	100596	1	6/16/2008 10:01 AM
Surr: Toluene-d8	95.7	73.3-124		%REC	100596	1	6/16/2008 10:01 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Isopropyl ether	20	5.0		ug/L	100596	1	6/16/2008 10:01 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
tert-Butyl Alcohol	40	5.0		ug/L	100596	1	6/16/2008 10:01 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-017

Client Sample ID: MW-18
Collection Date: 6/7/2008 3:40:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Surr: Nitrobenzene-d5	71.8	30.2-123		%REC	100447	1	6/12/2008 3:11 PM
Surr: 2-Fluorobiphenyl	77.3	47.4-115		%REC	100447	1	6/12/2008 3:11 PM
Surr: 4-Terphenyl-d14	61.4	57.5-129		%REC	100447	1	6/12/2008 3:11 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
2-Butanone	BRL	50		ug/L	100596	1	6/16/2008 10:29 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/16/2008 10:29 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/16/2008 10:29 AM
Acetone	BRL	50		ug/L	100596	1	6/16/2008 10:29 AM
Benzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-017

Client Sample ID: MW-18
Collection Date: 6/7/2008 3:40:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		**Analyst: CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Chloroethane	BRL	10		ug/L	100596	1	6/16/2008 10:29 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Chloromethane	BRL	10		ug/L	100596	1	6/16/2008 10:29 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Cyclohexane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/16/2008 10:29 AM
Ethylbenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Freon-113	BRL	10		ug/L	100596	1	6/16/2008 10:29 AM
Isopropylbenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
m,p-Xylene	BRL	10		ug/L	100596	1	6/16/2008 10:29 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Methyl tert-butyl ether	18	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Methylcyclohexane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
o-Xylene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Styrene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Toluene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/16/2008 10:29 AM
Surr: 4-Bromofluorobenzene	82.9	60.4-132		%REC	100596	1	6/16/2008 10:29 AM
Surr: Dibromofluoromethane	103	76.2-120		%REC	100596	1	6/16/2008 10:29 AM
Surr: Toluene-d8	92.4	73.3-124		%REC	100596	1	6/16/2008 10:29 AM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		**Analyst: CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-018

Client Sample ID: MW-19
Collection Date: 6/7/2008 4:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS		**SW8270C**			**(SW3510)**		Analyst: **EI**
Naphthalene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Surr: Nitrobenzene-d5	83.7	30.2-123		%REC	100447	1	6/12/2008 3:41 PM
Surr: 2-Fluorobiphenyl	86.4	47.4-115		%REC	100447	1	6/12/2008 3:41 PM
Surr: 4-Terphenyl-d14	50.5	57.5-129	S	%REC	100447	1	6/12/2008 3:41 PM
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 2:32 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 2:32 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 2:32 AM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 2:32 AM
Benzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-018

Client Sample ID: MW-19
Collection Date: 6/7/2008 4:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 2:32 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 2:32 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Cyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 2:32 AM
Ethylbenzene	8.3	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 2:32 AM
Isopropylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
m,p-Xylene	BRL	10		ug/L	100596	1	6/13/2008 2:32 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Methyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Methylcyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
o-Xylene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Toluene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 2:32 AM
Surr: 4-Bromofluorobenzene	87.0	60.4-132		%REC	100596	1	6/13/2008 2:32 AM
Surr: Dibromofluoromethane	91.8	76.2-120		%REC	100596	1	6/13/2008 2:32 AM
Surr: Toluene-d8	89.3	73.3-124		%REC	100596	1	6/13/2008 2:32 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-019

Client Sample ID: MW-4R
Collection Date: 6/7/2008 4:20:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Surr: Nitrobenzene-d5	80.8	30.2-123		%REC	100447	1	6/12/2008 4:10 PM
Surr: 2-Fluorobiphenyl	84.1	47.4-115		%REC	100447	1	6/12/2008 4:10 PM
Surr: 4-Terphenyl-d14	84.1	57.5-129		%REC	100447	1	6/12/2008 4:10 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 4:24 PM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 4:24 PM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 4:24 PM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 4:24 PM
Benzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-019

Client Sample ID: MW-4R
Collection Date: 6/7/2008 4:20:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 4:24 PM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 4:24 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Cyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 4:24 PM
Ethylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 4:24 PM
Isopropylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
m,p-Xylene	BRL	10		ug/L	100596	1	6/13/2008 4:24 PM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Methyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Methylcyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
o-Xylene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Tetrachloroethene	BRL	13		ug/L	100596	1	6/13/2008 4:24 PM
Toluene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 4:24 PM
Surr: 4-Bromofluorobenzene	86.7	60.4-132		%REC	100596	1	6/13/2008 4:24 PM
Surr: Dibromofluoromethane	90.6	76.2-120		%REC	100596	1	6/13/2008 4:24 PM
Surr: Toluene-d8	89.1	73.3-124		%REC	100596	1	6/13/2008 4:24 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
tert-Butyl Alcohol	60	5.0		ug/L	100596	1	6/13/2008 4:24 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-020

Client Sample ID: RW-06
Collection Date: 6/7/2008 4:40:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS		**SW8270C**			**(SW3510)**		Analyst: **EI**
Naphthalene	180	100		ug/L	100447	10	6/13/2008 6:38 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
1-Methylnaphthalene	58	10		ug/L	100447	1	6/12/2008 5:39 PM
2-Methylnaphthalene	94	10		ug/L	100447	1	6/12/2008 5:39 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Surr: Nitrobenzene-d5	78.5	30.2-123		%REC	100447	1	6/12/2008 5:39 PM
Surr: 2-Fluorobiphenyl	80.5	47.4-115		%REC	100447	1	6/12/2008 5:39 PM
Surr: 4-Terphenyl-d14	79.7	57.5-129		%REC	100447	1	6/12/2008 5:39 PM
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 4:52 PM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 4:52 PM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 4:52 PM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 4:52 PM
Benzene	830	50		ug/L	100596	10	6/16/2008 12:47 PM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-020

Client Sample ID: RW-06
Collection Date: 6/7/2008 4:40:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 4:52 PM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 4:52 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Cyclohexane	67	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 4:52 PM
Ethylbenzene	550	50		ug/L	100596	10	6/16/2008 12:47 PM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 4:52 PM
Isopropylbenzene	44	5.0		ug/L	100596	1	6/13/2008 4:52 PM
m,p-Xylene	520	100		ug/L	100596	10	6/16/2008 12:47 PM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Methyl tert-butyl ether	720	50		ug/L	100596	10	6/16/2008 12:47 PM
Methylcyclohexane	46	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
o-Xylene	39	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Tetrachloroethene	BRL	9.0		ug/L	100596	1	6/13/2008 4:52 PM
Toluene	7.5	5.0		ug/L	100596	1	6/13/2008 4:52 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 4:52 PM
Surr: 4-Bromofluorobenzene	92.8	60.4-132		%REC	100596	1	6/13/2008 4:52 PM
Surr: 4-Bromofluorobenzene	95.2	60.4-132		%REC	100596	10	6/16/2008 12:47 PM
Surr: Dibromofluoromethane	95.4	76.2-120		%REC	100596	10	6/16/2008 12:47 PM
Surr: Dibromofluoromethane	90.9	76.2-120		%REC	100596	1	6/13/2008 4:52 PM
Surr: Toluene-d8	101	73.3-124		%REC	100596	10	6/16/2008 12:47 PM
Surr: Toluene-d8	91.3	73.3-124		%REC	100596	1	6/13/2008 4:52 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Isopropyl ether	46	5.0		ug/L	100596	1	6/13/2008 4:52 PM
tert-Amyl methyl ether	31	5.0		ug/L	100596	1	6/13/2008 4:52 PM
tert-Butyl Alcohol	140	5.0		ug/L	100596	1	6/13/2008 4:52 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-021

Client Sample ID: RW-10
Collection Date: 6/7/2008 4:55:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	130	10		ug/L	100538	1	6/13/2008 12:55 PM
Acenaphthylene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
1-Methylnaphthalene	24	10		ug/L	100538	1	6/13/2008 12:55 PM
2-Methylnaphthalene	35	10		ug/L	100538	1	6/13/2008 12:55 PM
Acenaphthene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Fluorene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Phenanthrene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Anthracene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Pyrene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Benz(a)anthracene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Chrysene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Benzo(a)pyrene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Surr: Nitrobenzene-d5	99.0	30.2-123		%REC	100538	1	6/13/2008 12:55 PM
Surr: 2-Fluorobiphenyl	87.1	47.4-115		%REC	100538	1	6/13/2008 12:55 PM
Surr: 4-Terphenyl-d14	85.6	57.5-129		%REC	100538	1	6/13/2008 12:55 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,2-Dichloroethane	83	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
2-Butanone	BRL	50		ug/L	100597	1	6/14/2008 2:30 AM
2-Hexanone	BRL	10		ug/L	100597	1	6/14/2008 2:30 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/14/2008 2:30 AM
Acetone	BRL	50		ug/L	100597	1	6/14/2008 2:30 AM
Benzene	7000	500		ug/L	100597	100	6/13/2008 8:05 PM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-021

Client Sample ID: RW-10
Collection Date: 6/7/2008 4:55:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Bromomethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Chloroethane	BRL	10		ug/L	100597	1	6/14/2008 2:30 AM
Chloroform	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Chloromethane	BRL	10		ug/L	100597	1	6/14/2008 2:30 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Cyclohexane	75	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/14/2008 2:30 AM
Ethylbenzene	1500	500		ug/L	100597	100	6/13/2008 8:05 PM
Freon-113	BRL	10		ug/L	100597	1	6/14/2008 2:30 AM
Isopropylbenzene	64	5.0		ug/L	100597	1	6/14/2008 2:30 AM
m,p-Xylene	4000	1000		ug/L	100597	100	6/13/2008 8:05 PM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Methyl tert-butyl ether	3800	500		ug/L	100597	100	6/13/2008 8:05 PM
Methylcyclohexane	40	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
o-Xylene	1800	500		ug/L	100597	100	6/13/2008 8:05 PM
Styrene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Tetrachloroethene	BRL	5.0		ug/L	100597	1	6/12/2008 9:01 PM
Toluene	2800	500		ug/L	100597	100	6/13/2008 8:05 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/14/2008 2:30 AM
Surr: 4-Bromofluorobenzene	92.0	60.4-132		%REC	100597	1	6/14/2008 2:30 AM
Surr: 4-Bromofluorobenzene	90.7	60.4-132		%REC	100597	100	6/13/2008 8:05 PM
Surr: 4-Bromofluorobenzene	89.9	60.4-132		%REC	100597	1	6/12/2008 9:01 PM
Surr: Dibromofluoromethane	88.3	76.2-120		%REC	100597	100	6/13/2008 8:05 PM
Surr: Dibromofluoromethane	84.4	76.2-120		%REC	100597	1	6/14/2008 2:30 AM
Surr: Dibromofluoromethane	86.9	76.2-120		%REC	100597	1	6/12/2008 9:01 PM
Surr: Toluene-d8	89.5	73.3-124		%REC	100597	100	6/13/2008 8:05 PM
Surr: Toluene-d8	93.4	73.3-124		%REC	100597	1	6/12/2008 9:01 PM
Surr: Toluene-d8	91.9	73.3-124		%REC	100597	1	6/14/2008 2:30 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-021

Client Sample ID: RW-10
Collection Date: 6/7/2008 4:55:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Isopropyl ether	450	400		ug/L	100597	100	6/13/2008 8:05 PM
tert-Amyl methyl ether	450	400		ug/L	100597	100	6/13/2008 8:05 PM
tert-Butyl Alcohol	2800	500		ug/L	100597	100	6/13/2008 8:05 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-022

Client Sample ID: MW-11
Collection Date: 6/8/2008 10:29:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Acenaphthylene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
1-Methylnaphthalene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
2-Methylnaphthalene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Acenaphthene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Fluorene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Phenanthrene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Anthracene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Pyrene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Benz(a)anthracene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Chrysene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Benzo(a)pyrene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Surr: Nitrobenzene-d5	97.2	30.2-123		%REC	100538	1	6/13/2008 1:21 PM
Surr: 2-Fluorobiphenyl	90.0	47.4-115		%REC	100538	1	6/13/2008 1:21 PM
Surr: 4-Terphenyl-d14	81.4	57.5-129		%REC	100538	1	6/13/2008 1:21 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
2-Butanone	BRL	50		ug/L	100597	1	6/14/2008 12:41 AM
2-Hexanone	BRL	10		ug/L	100597	1	6/14/2008 12:41 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/14/2008 12:41 AM
Acetone	BRL	50		ug/L	100597	1	6/14/2008 12:41 AM
Benzene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-022

Client Sample ID: MW-11
Collection Date: 6/8/2008 10:29:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Bromoform	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Bromomethane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Chloroethane	BRL	10		ug/L	100597	1	6/14/2008 12:41 AM
Chloroform	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Chloromethane	BRL	10		ug/L	100597	1	6/14/2008 12:41 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Cyclohexane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/14/2008 12:41 AM
Ethylbenzene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Freon-113	BRL	10		ug/L	100597	1	6/14/2008 12:41 AM
Isopropylbenzene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
m,p-Xylene	BRL	10		ug/L	100597	1	6/14/2008 12:41 AM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Methyl tert-butyl ether	12	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Methylcyclohexane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
o-Xylene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Styrene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Tetrachloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Toluene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/14/2008 12:41 AM
Surr: 4-Bromofluorobenzene	87.6	60.4-132		%REC	100597	1	6/14/2008 12:41 AM
Surr: Dibromofluoromethane	88.4	76.2-120		%REC	100597	1	6/14/2008 12:41 AM
Surr: Toluene-d8	88.4	73.3-124		%REC	100597	1	6/14/2008 12:41 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Isopropyl ether	44	5.0		ug/L	100597	1	6/14/2008 12:41 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
tert-Butyl Alcohol	1200	5.0		ug/L	100597	1	6/14/2008 12:41 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-023

Client Sample ID: RW-01
Collection Date: 6/8/2008 11:50:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: EI
Naphthalene	230	50		ug/L	100538	5	6/13/2008 6:24 PM
Acenaphthylene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
1-Methylnaphthalene	35	10		ug/L	100538	1	6/13/2008 1:47 PM
2-Methylnaphthalene	51	10		ug/L	100538	1	6/13/2008 1:47 PM
Acenaphthene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Fluorene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Phenanthrene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Anthracene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Pyrene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Benz(a)anthracene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Chrysene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Benzo(a)pyrene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Surr: Nitrobenzene-d5	102	30.2-123		%REC	100538	1	6/13/2008 1:47 PM
Surr: 2-Fluorobiphenyl	87.8	47.4-115		%REC	100538	1	6/13/2008 1:47 PM
Surr: 4-Terphenyl-d14	85.1	57.5-129		%REC	100538	1	6/13/2008 1:47 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: CAB
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
2-Butanone	BRL	50		ug/L	100597	1	6/14/2008 2:03 AM
2-Hexanone	BRL	10		ug/L	100597	1	6/14/2008 2:03 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/14/2008 2:03 AM
Acetone	BRL	50		ug/L	100597	1	6/14/2008 2:03 AM
Benzene	6900	250		ug/L	100597	50	6/14/2008 12:13 AM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-023

Client Sample ID: RW-01
Collection Date: 6/8/2008 11:50:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Bromomethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Chloroethane	BRL	10		ug/L	100597	1	6/14/2008 2:03 AM
Chloroform	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Chloromethane	BRL	10		ug/L	100597	1	6/14/2008 2:03 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Cyclohexane	45	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/14/2008 2:03 AM
Ethylbenzene	790	250		ug/L	100597	50	6/14/2008 12:13 AM
Freon-113	BRL	10		ug/L	100597	1	6/14/2008 2:03 AM
Isopropylbenzene	35	5.0		ug/L	100597	1	6/14/2008 2:03 AM
m,p-Xylene	3700	500		ug/L	100597	50	6/14/2008 12:13 AM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Methyl tert-butyl ether	15000	2500		ug/L	100597	500	6/16/2008 12:22 PM
Methylcyclohexane	14	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
o-Xylene	1900	250		ug/L	100597	50	6/14/2008 12:13 AM
Styrene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Tetrachloroethene	BRL	5.0		ug/L	100597	1	6/12/2008 9:57 PM
Toluene	9600	250		ug/L	100597	50	6/14/2008 12:13 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/14/2008 2:03 AM
Surr: 4-Bromofluorobenzene	87.1	60.4-132		%REC	100597	500	6/16/2008 12:22 PM
Surr: 4-Bromofluorobenzene	91.9	60.4-132		%REC	100597	50	6/14/2008 12:13 AM
Surr: 4-Bromofluorobenzene	90.4	60.4-132		%REC	100597	1	6/12/2008 9:57 PM
Surr: 4-Bromofluorobenzene	88.2	60.4-132		%REC	100597	1	6/14/2008 2:03 AM
Surr: Dibromofluoromethane	84.8	76.2-120		%REC	100597	1	6/12/2008 9:57 PM
Surr: Dibromofluoromethane	94.0	76.2-120		%REC	100597	500	6/16/2008 12:22 PM
Surr: Dibromofluoromethane	87.8	76.2-120		%REC	100597	1	6/14/2008 2:03 AM
Surr: Dibromofluoromethane	90.6	76.2-120		%REC	100597	50	6/14/2008 12:13 AM
Surr: Toluene-d8	95.1	73.3-124		%REC	100597	1	6/12/2008 9:57 PM
Surr: Toluene-d8	100	73.3-124		%REC	100597	500	6/16/2008 12:22 PM
Surr: Toluene-d8	90.1	73.3-124		%REC	100597	50	6/14/2008 12:13 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-023

Client Sample ID: RW-01
Collection Date: 6/8/2008 11:50:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Surr: Toluene-d8	93.6	73.3-124		%REC	100597	1	6/14/2008 2:03 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Isopropyl ether	570	250		ug/L	100597	50	6/14/2008 12:13 AM
tert-Amyl methyl ether	1100	250		ug/L	100597	50	6/14/2008 12:13 AM
tert-Butyl Alcohol	5100	250		ug/L	100597	50	6/14/2008 12:13 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-024

Client Sample ID: RW-02
Collection Date: 6/8/2008 12:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS		**SW8270C**			**(SW3510)**		Analyst: **EI**
Naphthalene	260	50		ug/L	100538	5	6/13/2008 6:51 PM
Acenaphthylene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
1-Methylnaphthalene	36	10		ug/L	100538	1	6/13/2008 2:13 PM
2-Methylnaphthalene	64	10		ug/L	100538	1	6/13/2008 2:13 PM
Acenaphthene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Fluorene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Phenanthrene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Anthracene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Pyrene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Benz(a)anthracene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Chrysene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Benzo(a)pyrene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Surr: Nitrobenzene-d5	95.9	30.2-123		%REC	100538	1	6/13/2008 2:13 PM
Surr: 2-Fluorobiphenyl	85.9	47.4-115		%REC	100538	1	6/13/2008 2:13 PM
Surr: 4-Terphenyl-d14	92.8	57.5-129		%REC	100538	1	6/13/2008 2:13 PM
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
2-Butanone	880	50	E	ug/L	100597	1	6/14/2008 2:58 AM
2-Hexanone	330	10		ug/L	100597	1	6/14/2008 2:58 AM
4-Methyl-2-pentanone	120	10		ug/L	100597	1	6/14/2008 2:58 AM
Acetone	1400	50	E	ug/L	100597	1	6/14/2008 2:58 AM
Benzene	5100	500		ug/L	100597	100	6/13/2008 7:38 PM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-024

Client Sample ID: RW-02
Collection Date: 6/8/2008 12:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Bromomethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Chloroethane	BRL	10		ug/L	100597	1	6/14/2008 2:58 AM
Chloroform	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Chloromethane	BRL	10		ug/L	100597	1	6/14/2008 2:58 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Cyclohexane	18	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/14/2008 2:58 AM
Ethylbenzene	1600	500		ug/L	100597	100	6/13/2008 7:38 PM
Freon-113	BRL	10		ug/L	100597	1	6/14/2008 2:58 AM
Isopropylbenzene	40	5.0		ug/L	100597	1	6/14/2008 2:58 AM
m,p-Xylene	5100	1000		ug/L	100597	100	6/13/2008 7:38 PM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Methyl tert-butyl ether	7500	500		ug/L	100597	100	6/13/2008 7:38 PM
Methylcyclohexane	5.3	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
o-Xylene	2500	500		ug/L	100597	100	6/13/2008 7:38 PM
Styrene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Tetrachloroethene	BRL	5.0		ug/L	100597	1	6/12/2008 8:34 PM
Toluene	5400	500		ug/L	100597	100	6/13/2008 7:38 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/14/2008 2:58 AM
Surr: 4-Bromofluorobenzene	86.6	60.4-132		%REC	100597	100	6/13/2008 7:38 PM
Surr: 4-Bromofluorobenzene	92.7	60.4-132		%REC	100597	1	6/14/2008 2:58 AM
Surr: 4-Bromofluorobenzene	90.5	60.4-132		%REC	100597	1	6/12/2008 8:34 PM
Surr: Dibromofluoromethane	88.2	76.2-120		%REC	100597	1	6/14/2008 2:58 AM
Surr: Dibromofluoromethane	89.1	76.2-120		%REC	100597	100	6/13/2008 7:38 PM
Surr: Dibromofluoromethane	85.8	76.2-120		%REC	100597	1	6/12/2008 8:34 PM
Surr: Toluene-d8	88.1	73.3-124		%REC	100597	100	6/13/2008 7:38 PM
Surr: Toluene-d8	91.1	73.3-124		%REC	100597	1	6/14/2008 2:58 AM
Surr: Toluene-d8	95.8	73.3-124		%REC	100597	1	6/12/2008 8:34 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-024

Client Sample ID: RW-02
Collection Date: 6/8/2008 12:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Isopropyl ether	200	5.0		ug/L	100597	1	6/14/2008 2:58 AM
tert-Amyl methyl ether	1300	500		ug/L	100597	100	6/13/2008 7:38 PM
tert-Butyl Alcohol	34000	500		ug/L	100597	100	6/13/2008 7:38 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-025

Client Sample ID: MW-21
Collection Date: 6/8/2008 1:40:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	1200	100		ug/L	100538	10	6/13/2008 7:17 PM
Acenaphthylene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
1-Methylnaphthalene	350	100		ug/L	100538	10	6/13/2008 7:17 PM
2-Methylnaphthalene	670	100		ug/L	100538	10	6/13/2008 7:17 PM
Acenaphthene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Fluorene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Phenanthrene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Anthracene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Pyrene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Benz(a)anthracene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Chrysene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Benzo(a)pyrene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Surr: Nitrobenzene-d5	99.5	30.2-123		%REC	100538	1	6/13/2008 2:39 PM
Surr: 2-Fluorobiphenyl	84.7	47.4-115		%REC	100538	1	6/13/2008 2:39 PM
Surr: 4-Terphenyl-d14	91.6	57.5-129		%REC	100538	1	6/13/2008 2:39 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,2-Dichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
2-Butanone	51	50		ug/L	100597	1	6/13/2008 5:20 PM
2-Hexanone	BRL	10		ug/L	100597	1	6/13/2008 5:20 PM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/13/2008 5:20 PM
Acetone	BRL	50		ug/L	100597	1	6/13/2008 5:20 PM
Benzene	10000	500		ug/L	100597	100	6/16/2008 11:52 AM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-025

Client Sample ID: MW-21
Collection Date: 6/8/2008 1:40:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Bromoform	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Bromomethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Chloroethane	BRL	10		ug/L	100597	1	6/13/2008 5:20 PM
Chloroform	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Chloromethane	BRL	10		ug/L	100597	1	6/13/2008 5:20 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Cyclohexane	170	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/13/2008 5:20 PM
Ethylbenzene	4400	500		ug/L	100597	100	6/16/2008 11:52 AM
Freon-113	BRL	10		ug/L	100597	1	6/13/2008 5:20 PM
Isopropylbenzene	160	5.0		ug/L	100597	1	6/13/2008 5:20 PM
m,p-Xylene	16000	1000		ug/L	100597	100	6/16/2008 11:52 AM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Methyl tert-butyl ether	9200	500		ug/L	100597	100	6/16/2008 11:52 AM
Methylcyclohexane	120	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
o-Xylene	7800	500		ug/L	100597	100	6/16/2008 11:52 AM
Styrene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Tetrachloroethene	BRL	6.0		ug/L	100597	1	6/13/2008 5:20 PM
Toluene	6600	500		ug/L	100597	100	6/16/2008 11:52 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/13/2008 5:20 PM
Surr: 4-Bromofluorobenzene	91.8	60.4-132		%REC	100597	100	6/16/2008 11:52 AM
Surr: 4-Bromofluorobenzene	92.3	60.4-132		%REC	100597	1	6/13/2008 5:20 PM
Surr: Dibromofluoromethane	87.2	76.2-120		%REC	100597	1	6/13/2008 5:20 PM
Surr: Dibromofluoromethane	94.3	76.2-120		%REC	100597	100	6/16/2008 11:52 AM
Surr: Toluene-d8	91.1	73.3-124		%REC	100597	100	6/16/2008 11:52 AM
Surr: Toluene-d8	94.6	73.3-124		%REC	100597	1	6/13/2008 5:20 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Isopropyl ether	160	5.0		ug/L	100597	1	6/13/2008 5:20 PM
tert-Amyl methyl ether	1400	500		ug/L	100597	100	6/16/2008 11:52 AM
tert-Butyl Alcohol	5200	500		ug/L	100597	100	6/16/2008 11:52 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-026

Client Sample ID: RW-08
Collection Date: 6/8/2008 2:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	240	50		ug/L	100538	5	6/13/2008 5:05 PM
Acenaphthylene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
1-Methylnaphthalene	30	10		ug/L	100538	1	6/13/2008 11:37 AM
2-Methylnaphthalene	49	10		ug/L	100538	1	6/13/2008 11:37 AM
Acenaphthene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Fluorene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Phenanthrene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Anthracene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Pyrene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Benz(a)anthracene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Chrysene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Benzo(b)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Benzo(k)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Benzo(a)pyrene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Dibenz(a,h)anthracene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Benzo(g,h,i)perylene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Surr: Nitrobenzene-d5	102	30.2-123		%REC	100538	1	6/13/2008 11:37 AM
Surr: 2-Fluorobiphenyl	91.2	47.4-115		%REC	100538	1	6/13/2008 11:37 AM
Surr: 4-Terphenyl-d14	103	57.5-129		%REC	100538	1	6/13/2008 11:37 AM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,2-Dichloroethane	87	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
2-Butanone	250	50		ug/L	100597	1	6/13/2008 5:47 PM
2-Hexanone	BRL	10		ug/L	100597	1	6/13/2008 5:47 PM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/13/2008 5:47 PM
Acetone	BRL	50		ug/L	100597	1	6/13/2008 5:47 PM
Benzene	11000	500		ug/L	100597	100	6/16/2008 12:20 PM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-026

Client Sample ID: RW-08
Collection Date: 6/8/2008 2:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Bromoform	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Bromomethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Chloroethane	BRL	10		ug/L	100597	1	6/13/2008 5:47 PM
Chloroform	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Chloromethane	BRL	10		ug/L	100597	1	6/13/2008 5:47 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Cyclohexane	53	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/13/2008 5:47 PM
Ethylbenzene	1200	500		ug/L	100597	100	6/16/2008 12:20 PM
Freon-113	BRL	10		ug/L	100597	1	6/13/2008 5:47 PM
Isopropylbenzene	52	5.0		ug/L	100597	1	6/13/2008 5:47 PM
m,p-Xylene	4700	1000		ug/L	100597	100	6/16/2008 12:20 PM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Methyl tert-butyl ether	69000	5000		ug/L	100597	1000	6/16/2008 5:47 PM
Methylcyclohexane	38	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
o-Xylene	2300	500		ug/L	100597	100	6/16/2008 12:20 PM
Styrene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Tetrachloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Toluene	14000	500		ug/L	100597	100	6/16/2008 12:20 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/13/2008 5:47 PM
Surr: 4-Bromofluorobenzene	90.4	60.4-132		%REC	100597	1	6/13/2008 5:47 PM
Surr: 4-Bromofluorobenzene	88.6	60.4-132		%REC	100597	100	6/16/2008 12:20 PM
Surr: 4-Bromofluorobenzene	90.2	60.4-132		%REC	100597	1000	6/16/2008 5:47 PM
Surr: Dibromofluoromethane	92.4	76.2-120		%REC	100597	1000	6/16/2008 5:47 PM
Surr: Dibromofluoromethane	84.8	76.2-120		%REC	100597	1	6/13/2008 5:47 PM
Surr: Dibromofluoromethane	93.0	76.2-120		%REC	100597	100	6/16/2008 12:20 PM
Surr: Toluene-d8	100	73.3-124		%REC	100597	1000	6/16/2008 5:47 PM
Surr: Toluene-d8	91.4	73.3-124		%REC	100597	100	6/16/2008 12:20 PM
Surr: Toluene-d8	92.2	73.3-124		%REC	100597	1	6/13/2008 5:47 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT:	Stantec Consulting	**Client Sample ID:**	RW-08
Project:	N. Peachtree GUST EZ Serve 8102	**Collection Date:**	6/8/2008 2:30:00 PM
Lab ID:	0806534-026	**Matrix:**	AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Isopropyl ether	1900	500		ug/L	100597	100	6/16/2008 12:20 PM
tert-Amyl methyl ether	4500	500		ug/L	100597	100	6/16/2008 12:20 PM
tert-Butyl Alcohol	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-027

Client Sample ID: MW-13
Collection Date: 6/8/2008 4:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Acenaphthylene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
1-Methylnaphthalene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
2-Methylnaphthalene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Acenaphthene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Fluorene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Phenanthrene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Anthracene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Pyrene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Benz(a)anthracene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Chrysene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Benzo(a)pyrene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Surr: Nitrobenzene-d5	100	30.2-123		%REC	100538	1	6/13/2008 3:06 PM
Surr: 2-Fluorobiphenyl	89.1	47.4-115		%REC	100538	1	6/13/2008 3:06 PM
Surr: 4-Terphenyl-d14	62.2	57.5-129		%REC	100538	1	6/13/2008 3:06 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,2-Dichloroethane	24	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
2-Butanone	BRL	50		ug/L	100597	1	6/16/2008 10:56 AM
2-Hexanone	BRL	10		ug/L	100597	1	6/16/2008 10:56 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/16/2008 10:56 AM
Acetone	BRL	50		ug/L	100597	1	6/16/2008 10:56 AM
Benzene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-027

Client Sample ID: MW-13
Collection Date: 6/8/2008 4:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Bromomethane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Chloroethane	BRL	10		ug/L	100597	1	6/16/2008 10:56 AM
Chloroform	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Chloromethane	BRL	10		ug/L	100597	1	6/16/2008 10:56 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Cyclohexane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/16/2008 10:56 AM
Ethylbenzene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Freon-113	BRL	10		ug/L	100597	1	6/16/2008 10:56 AM
Isopropylbenzene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
m,p-Xylene	BRL	10		ug/L	100597	1	6/16/2008 10:56 AM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Methyl tert-butyl ether	380	50		ug/L	100597	10	6/16/2008 1:17 PM
Methylcyclohexane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
o-Xylene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Styrene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Tetrachloroethene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Toluene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/16/2008 10:56 AM
Surr: 4-Bromofluorobenzene	84.5	60.4-132		%REC	100597	10	6/16/2008 1:17 PM
Surr: 4-Bromofluorobenzene	82.7	60.4-132		%REC	100597	1	6/16/2008 10:56 AM
Surr: Dibromofluoromethane	95.9	76.2-120		%REC	100597	10	6/16/2008 1:17 PM
Surr: Dibromofluoromethane	100	76.2-120		%REC	100597	1	6/16/2008 10:56 AM
Surr: Toluene-d8	92.5	73.3-124		%REC	100597	1	6/16/2008 10:56 AM
Surr: Toluene-d8	100	73.3-124		%REC	100597	10	6/16/2008 1:17 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Isopropyl ether	44	5.0		ug/L	100597	1	6/16/2008 10:56 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
tert-Butyl Alcohol	130	5.0		ug/L	100597	1	6/16/2008 10:56 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-028

Client Sample ID: MW-14
Collection Date: 6/8/2008 5:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Acenaphthylene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
1-Methylnaphthalene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
2-Methylnaphthalene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Acenaphthene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Fluorene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Phenanthrene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Anthracene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Pyrene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Benz(a)anthracene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Chrysene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Benzo(a)pyrene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Surr: Nitrobenzene-d5	101	30.2-123		%REC	100538	1	6/13/2008 3:33 PM
Surr: 2-Fluorobiphenyl	93.4	47.4-115		%REC	100538	1	6/13/2008 3:33 PM
Surr: 4-Terphenyl-d14	95.1	57.5-129		%REC	100538	1	6/13/2008 3:33 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
2-Butanone	BRL	50		ug/L	100597	1	6/16/2008 11:24 AM
2-Hexanone	BRL	10		ug/L	100597	1	6/16/2008 11:24 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/16/2008 11:24 AM
Acetone	BRL	50		ug/L	100597	1	6/16/2008 11:24 AM
Benzene	140	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-028

Client Sample ID: MW-14
Collection Date: 6/8/2008 5:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Bromomethane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Chloroethane	BRL	10		ug/L	100597	1	6/16/2008 11:24 AM
Chloroform	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Chloromethane	BRL	10		ug/L	100597	1	6/16/2008 11:24 AM
cis-1,2-Dichloroethene	2400	50	E	ug/L	100597	10	6/16/2008 1:37 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Cyclohexane	18	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/16/2008 11:24 AM
Ethylbenzene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Freon-113	BRL	10		ug/L	100597	1	6/16/2008 11:24 AM
Isopropylbenzene	7.8	5.0		ug/L	100597	1	6/16/2008 11:24 AM
m,p-Xylene	BRL	10		ug/L	100597	1	6/16/2008 11:24 AM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Methyl tert-butyl ether	370	50		ug/L	100597	10	6/16/2008 1:37 PM
Methylcyclohexane	23	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
o-Xylene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Styrene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Tetrachloroethene	220	50		ug/L	100597	10	6/16/2008 1:37 PM
Toluene	8.6	5.0		ug/L	100597	1	6/16/2008 11:24 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Trichloroethene	230	50		ug/L	100597	10	6/16/2008 1:37 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Vinyl chloride	340	20		ug/L	100597	10	6/16/2008 1:37 PM
Surr: 4-Bromofluorobenzene	88.2	60.4-132		%REC	100597	10	6/16/2008 1:37 PM
Surr: 4-Bromofluorobenzene	87.0	60.4-132		%REC	100597	1	6/16/2008 11:24 AM
Surr: Dibromofluoromethane	95.0	76.2-120		%REC	100597	10	6/16/2008 1:37 PM
Surr: Dibromofluoromethane	97.5	76.2-120		%REC	100597	1	6/16/2008 11:24 AM
Surr: Toluene-d8	100	73.3-124		%REC	100597	10	6/16/2008 1:37 PM
Surr: Toluene-d8	92.7	73.3-124		%REC	100597	1	6/16/2008 11:24 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Isopropyl ether	7.8	5.0		ug/L	100597	1	6/16/2008 11:24 AM
tert-Amyl methyl ether	9.3	5.0		ug/L	100597	1	6/16/2008 11:24 AM
tert-Butyl Alcohol	470	5.0		ug/L	100597	1	6/16/2008 11:24 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-029

Client Sample ID: RW-09
Collection Date: 6/8/2008 4:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	370	50		ug/L	100538	5	6/13/2008 7:43 PM
Acenaphthylene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
1-Methylnaphthalene	50	10		ug/L	100538	1	6/13/2008 3:59 PM
2-Methylnaphthalene	76	10		ug/L	100538	1	6/13/2008 3:59 PM
Acenaphthene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Fluorene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Phenanthrene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Anthracene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Pyrene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Benz(a)anthracene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Chrysene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Benzo(a)pyrene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Surr: Nitrobenzene-d5	104	30.2-123		%REC	100538	1	6/13/2008 3:59 PM
Surr: 2-Fluorobiphenyl	83.0	47.4-115		%REC	100538	1	6/13/2008 3:59 PM
Surr: 4-Terphenyl-d14	95.4	57.5-129		%REC	100538	1	6/13/2008 3:59 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,2-Dichloroethane	260	250		ug/L	100597	50	6/16/2008 12:48 PM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
2-Butanone	77	50		ug/L	100597	1	6/13/2008 7:10 PM
2-Hexanone	BRL	10		ug/L	100597	1	6/13/2008 7:10 PM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/13/2008 7:10 PM
Acetone	BRL	50		ug/L	100597	1	6/13/2008 7:10 PM
Benzene	17000	2500		ug/L	100597	500	6/16/2008 5:22 PM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-029

Client Sample ID: RW-09
Collection Date: 6/8/2008 4:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Bromomethane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Chloroethane	BRL	10		ug/L	100597	1	6/13/2008 7:10 PM
Chloroform	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Chloromethane	BRL	10		ug/L	100597	1	6/13/2008 7:10 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Cyclohexane	90	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/13/2008 7:10 PM
Ethylbenzene	2500	250		ug/L	100597	50	6/16/2008 12:48 PM
Freon-113	BRL	10		ug/L	100597	1	6/13/2008 7:10 PM
Isopropylbenzene	150	5.0		ug/L	100597	1	6/13/2008 7:10 PM
m,p-Xylene	7100	500		ug/L	100597	50	6/16/2008 12:48 PM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Methyl tert-butyl ether	25000	2500		ug/L	100597	500	6/16/2008 5:22 PM
Methylcyclohexane	59	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
o-Xylene	4200	250		ug/L	100597	50	6/16/2008 12:48 PM
Styrene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Tetrachloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Toluene	26000	2500		ug/L	100597	500	6/16/2008 5:22 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/13/2008 7:10 PM
Surr: 4-Bromofluorobenzene	91.7	60.4-132		%REC	100597	50	6/16/2008 12:48 PM
Surr: 4-Bromofluorobenzene	90.5	60.4-132		%REC	100597	500	6/16/2008 5:22 PM
Surr: 4-Bromofluorobenzene	90.5	60.4-132		%REC	100597	1	6/13/2008 7:10 PM
Surr: Dibromofluoromethane	85.6	76.2-120		%REC	100597	1	6/13/2008 7:10 PM
Surr: Dibromofluoromethane	92.5	76.2-120		%REC	100597	50	6/16/2008 12:48 PM
Surr: Dibromofluoromethane	93.3	76.2-120		%REC	100597	500	6/16/2008 5:22 PM
Surr: Toluene-d8	101	73.3-124		%REC	100597	500	6/16/2008 5:22 PM
Surr: Toluene-d8	92.6	73.3-124		%REC	100597	1	6/13/2008 7:10 PM
Surr: Toluene-d8	90.1	73.3-124		%REC	100597	50	6/16/2008 12:48 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-029

Client Sample ID: RW-09
Collection Date: 6/8/2008 4:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Isopropyl ether	390	5.0		ug/L	100597	1	6/13/2008 7:10 PM
tert-Amyl methyl ether	340	5.0		ug/L	100597	1	6/13/2008 7:10 PM
tert-Butyl Alcohol	16000	250		ug/L	100597	50	6/16/2008 12:48 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-030

Client Sample ID: TRIP BLANK 1
Collection Date: 6/8/2008
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
2-Butanone	BRL	50		ug/L	100597	1	6/13/2008 9:58 AM
2-Hexanone	BRL	10		ug/L	100597	1	6/13/2008 9:58 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/13/2008 9:58 AM
Acetone	BRL	50		ug/L	100597	1	6/13/2008 9:58 AM
Benzene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Bromoform	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Bromomethane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Chloroethane	BRL	10		ug/L	100597	1	6/13/2008 9:58 AM
Chloroform	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Chloromethane	BRL	10		ug/L	100597	1	6/13/2008 9:58 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Cyclohexane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/13/2008 9:58 AM
Ethylbenzene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Freon-113	BRL	10		ug/L	100597	1	6/13/2008 9:58 AM
Isopropylbenzene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
m,p-Xylene	BRL	10		ug/L	100597	1	6/13/2008 9:58 AM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Methyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Methylcyclohexane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
o-Xylene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank
- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-030

Client Sample ID: TRIP BLANK 1
Collection Date: 6/8/2008
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Styrene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Tetrachloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Toluene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/13/2008 9:58 AM
Surr: 4-Bromofluorobenzene	88.9	60.4-132		%REC	100597	1	6/13/2008 9:58 AM
Surr: Dibromofluoromethane	96.0	76.2-120		%REC	100597	1	6/13/2008 9:58 AM
Surr: Toluene-d8	91.1	73.3-124		%REC	100597	1	6/13/2008 9:58 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Isopropyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
B	Analyte detected in the associated Method Blank
E	Estimated (Value above quantitation range)
S	Surrogate Recovery outside accepted recovery limits
Narr	See Case Narrative
NC	Not Confirmed

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-031

Client Sample ID: TRIP BLANK 2
Collection Date: 6/8/2008
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
2-Butanone	BRL	50		ug/L	100597	1	6/13/2008 10:26 AM
2-Hexanone	BRL	10		ug/L	100597	1	6/13/2008 10:26 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/13/2008 10:26 AM
Acetone	BRL	50		ug/L	100597	1	6/13/2008 10:26 AM
Benzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Bromoform	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Bromomethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Chloroethane	BRL	10		ug/L	100597	1	6/13/2008 10:26 AM
Chloroform	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Chloromethane	BRL	10		ug/L	100597	1	6/13/2008 10:26 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Cyclohexane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/13/2008 10:26 AM
Ethylbenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Freon-113	BRL	10		ug/L	100597	1	6/13/2008 10:26 AM
Isopropylbenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
m,p-Xylene	BRL	10		ug/L	100597	1	6/13/2008 10:26 AM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Methyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Methylcyclohexane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
o-Xylene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-031

Client Sample ID: TRIP BLANK 2
Collection Date: 6/8/2008
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Styrene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Tetrachloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Toluene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/13/2008 10:26 AM
Surr: 4-Bromofluorobenzene	85.8	60.4-132		%REC	100597	1	6/13/2008 10:26 AM
Surr: Dibromofluoromethane	96.6	76.2-120		%REC	100597	1	6/13/2008 10:26 AM
Surr: Toluene-d8	89.7	73.3-124		%REC	100597	1	6/13/2008 10:26 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Isopropyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-032

Client Sample ID: TRIP BLANK 3
Collection Date: 6/8/2008
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
2-Butanone	BRL	50		ug/L	100597	1	6/13/2008 10:53 AM
2-Hexanone	BRL	10		ug/L	100597	1	6/13/2008 10:53 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/13/2008 10:53 AM
Acetone	BRL	50		ug/L	100597	1	6/13/2008 10:53 AM
Benzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Bromoform	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Bromomethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Chloroethane	BRL	10		ug/L	100597	1	6/13/2008 10:53 AM
Chloroform	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Chloromethane	BRL	10		ug/L	100597	1	6/13/2008 10:53 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Cyclohexane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/13/2008 10:53 AM
Ethylbenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Freon-113	BRL	10		ug/L	100597	1	6/13/2008 10:53 AM
Isopropylbenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
m,p-Xylene	BRL	10		ug/L	100597	1	6/13/2008 10:53 AM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Methyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Methylcyclohexane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
o-Xylene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-032

Client Sample ID: TRIP BLANK 3
Collection Date: 6/8/2008
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Styrene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Tetrachloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Toluene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/13/2008 10:53 AM
Surr: 4-Bromofluorobenzene	87.4	60.4-132		%REC	100597	1	6/13/2008 10:53 AM
Surr: Dibromofluoromethane	93.0	76.2-120		%REC	100597	1	6/13/2008 10:53 AM
Surr: Toluene-d8	88.5	73.3-124		%REC	100597	1	6/13/2008 10:53 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Isopropyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: MB-100597 SampType: MBLK TestCode: 8260_TCL4.2 Units: ug/L Prep Date: 6/12/2008 RunNo: 127196
Client ID: Batch ID: 100597 TestNo: SW8260B Analysis Date: 6/12/2008 SeqNo: 2588331

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

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: **MB-100597** SampType: **MBLK** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2588331**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0		
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0		
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0		
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0		
Freon-113	BRL	10	0	0	0	0	0	0	0		
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0		
m,p-Xylene	BRL	10	0	0	0	0	0	0	0		
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0		
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0		
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0		
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0		
o-Xylene	BRL	5.0	0	0	0	0	0	0	0		
Styrene	BRL	5.0	0	0	0	0	0	0	0		
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0		
Toluene	BRL	5.0	0	0	0	0	0	0	0		
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0		
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0		
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0		
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0		
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0		
Surr: 4-Bromofluorobenzene	43.68	0	50	0	87.4	60.4	132	0	0		
Surr: Dibromofluoromethane	46.86	0	50	0	93.7	76.2	120	0	0		
Surr: Toluene-d8	45.08	0	50	0	90.2	73.3	124	0	0		

Sample ID: **MB-100596** SampType: **MBLK** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588432**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0		
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: **MB-100596** SampType: **MBLK** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588432**

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

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: **MB-100596** SampType: **MBLK** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588432**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	BRL	10	0	0	0	0	0	0	0		
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0		
m,p-Xylene	BRL	10	0	0	0	0	0	0	0		
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0		
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0		
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0		
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0		
o-Xylene	BRL	5.0	0	0	0	0	0	0	0		
Styrene	BRL	5.0	0	0	0	0	0	0	0		
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0		
Toluene	BRL	5.0	0	0	0	0	0	0	0		
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0		
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0		
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0		
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0		
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0		
Surr: 4-Bromofluorobenzene	44.21	0	50	0	88.4	60.4	132	0	0		
Surr: Dibromofluoromethane	47.6	0	50	0	95.2	76.2	120	0	0		
Surr: Toluene-d8	44.65	0	50	0	89.3	73.3	124	0	0		

Sample ID: **LCS-100597** SampType: **LCS** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2588335**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	53.32	5.0	50	0	107	69.2	166	0	0		
Benzene	40.08	5.0	50	0	80.2	72.3	137	0	0		
Chlorobenzene	44.87	5.0	50	0	89.7	71.2	133	0	0		
Toluene	39.18	5.0	50	0	78.4	74.8	139	0	0		
Trichloroethene	43.34	5.0	50	0	86.7	71	146	0	0		
Surr: 4-Bromofluorobenzene	44.3	0	50	0	88.6	60.4	132	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: **LCS-100597** SampType: **LCS** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2588335**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	47.18	0	50	0	94.4	76.2	120	0	0		
Surr: Toluene-d8	44.75	0	50	0	89.5	73.3	124	0	0		

Sample ID: **LCS-100596** SampType: **LCS** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588448**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	46.17	5.0	50	0	92.3	69.2	166	0	0		
Benzene	38.29	5.0	50	0	76.6	72.3	137	0	0		
Chlorobenzene	43.65	5.0	50	0	87.3	71.2	133	0	0		
Toluene	37.7	5.0	50	0	75.4	74.8	139	0	0		
Trichloroethene	42.35	5.0	50	0	84.7	71	146	0	0		
Surr: 4-Bromofluorobenzene	44.57	0	50	0	89.1	60.4	132	0	0		
Surr: Dibromofluoromethane	48.9	0	50	0	97.8	76.2	120	0	0		
Surr: Toluene-d8	46.47	0	50	0	92.9	73.3	124	0	0		

Sample ID: **0806534-024AMS** SampType: **MS** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: **RW-02** Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2588460**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	501.4	50	500	0	100	69.4	167	0	0		
Benzene	4644	50	500	3429	243	70	139	0	0		SE
Chlorobenzene	443.4	50	500	0	88.7	69.3	135	0	0		
Toluene	2865	50	500	2597	53.6	72.1	141	0	0		SE
Trichloroethene	455.6	50	500	0	91.1	67.4	148	0	0		
Surr: 4-Bromofluorobenzene	454.7	0	500	0	90.9	60.4	132	0	0		
Surr: Dibromofluoromethane	453.4	0	500	0	90.7	76.2	120	0	0		
Surr: Toluene-d8	464.2	0	500	0	92.8	73.3	124	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: **0806534-002AMS** SampType: **MS** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: **RW-05** Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588490**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	529.2	50	500	0	106	69.4	167	0	0		
Benzene	431.5	50	500	0	86.3	70	139	0	0		
Chlorobenzene	465.2	50	500	0	93	69.3	135	0	0		
Toluene	433.2	50	500	0	86.6	72.1	141	0	0		
Trichloroethene	470.1	50	500	0	94	67.4	148	0	0		
Surr: 4-Bromofluorobenzene	433.1	0	500	0	86.6	60.4	132	0	0		
Surr: Dibromofluoromethane	460.9	0	500	0	92.2	76.2	120	0	0		
Surr: Toluene-d8	467.3	0	500	0	93.5	73.3	124	0	0		

Sample ID: **0806534-024AMS** SampType: **MS** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: **RW-02** Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2660784**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	501.4	50	500	0	100	69.4	167	0	0		
Benzene	4644	50	500	3429	243	70	139	0	0		SE
Chlorobenzene	443.4	50	500	0	88.7	69.3	135	0	0		
Toluene	2865	50	500	2597	53.6	72.1	141	0	0		SE
Trichloroethene	455.6	50	500	0	91.1	67.4	148	0	0		
Surr: 4-Bromofluorobenzene	454.7	0	500	0	90.9	60.4	132	0	0		
Surr: Dibromofluoromethane	453.4	0	500	0	90.7	76.2	120	0	0		
Surr: Toluene-d8	464.2	0	500	0	92.8	73.3	124	0	0		

Sample ID: **0806534-002AMS** SampType: **MS** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: **RW-05** Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2660813**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	529.2	50	500	0	106	69.4	167	0	0		
Benzene	431.5	50	500	0	86.3	70	139	0	0		
Chlorobenzene	465.2	50	500	0	93	69.3	135	0	0		
Toluene	433.2	50	500	0	86.6	72.1	141	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: **0806534-002AMS** SampType: **MS** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: **RW-05** Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2660813**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	470.1	50	500	0	94	67.4	148	0	0		
Surr: 4-Bromofluorobenzene	433.1	0	500	0	86.6	60.4	132	0	0		
Surr: Dibromofluoromethane	460.9	0	500	0	92.2	76.2	120	0	0		
Surr: Toluene-d8	467.3	0	500	0	93.5	73.3	124	0	0		

Sample ID: **0806534-024AMSD** SampType: **MSD** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: **RW-02** Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2588463**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	504.9	50	500	0	101	69.4	167	501.4	0.696	20	
Benzene	4589	50	500	3429	232	70	139	4644	1.18	20	SE
Chlorobenzene	443.2	50	500	0	88.6	69.3	135	443.4	0.0451	20	
Toluene	2843	50	500	2597	49.2	72.1	141	2865	0.767	20	SE
Trichloroethene	442.2	50	500	0	88.4	67.4	148	455.6	2.99	20	
Surr: 4-Bromofluorobenzene	451.8	0	500	0	90.4	60.4	132	454.7	0	0	
Surr: Dibromofluoromethane	457.6	0	500	0	91.5	76.2	120	453.4	0	0	
Surr: Toluene-d8	455	0	500	0	91	73.3	124	464.2	0	0	

Sample ID: **0806534-002AMSD** SampType: **MSD** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: **RW-05** Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588493**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	545.9	50	500	0	109	69.4	167	529.2	3.11	20	
Benzene	419.8	50	500	0	84	70	139	431.5	2.75	20	
Chlorobenzene	464.1	50	500	0	92.8	69.3	135	465.2	0.237	20	
Toluene	420.2	50	500	0	84	72.1	141	433.2	3.05	20	
Trichloroethene	469.1	50	500	0	93.8	67.4	148	470.1	0.213	20	
Surr: 4-Bromofluorobenzene	430.9	0	500	0	86.2	60.4	132	433.1	0	0	
Surr: Dibromofluoromethane	467.6	0	500	0	93.5	76.2	120	460.9	0	0	
Surr: Toluene-d8	461.6	0	500	0	92.3	73.3	124	467.3	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: **0806534-024AMSD** SampType: **MSD** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: **RW-02** Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2660785**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	504.9	50	500	0	101	69.4	167	501.4	0.696	20	
Benzene	4589	50	500	3429	232	70	139	4644	1.18	20	SE
Chlorobenzene	443.2	50	500	0	88.6	69.3	135	443.4	0.0451	20	
Toluene	2843	50	500	2597	49.2	72.1	141	2865	0.767	20	SE
Trichloroethene	442.2	50	500	0	88.4	67.4	148	455.6	2.99	20	
Surr: 4-Bromofluorobenzene	451.8	0	500	0	90.4	60.4	132	454.7	0	0	
Surr: Dibromofluoromethane	457.6	0	500	0	91.5	76.2	120	453.4	0	0	
Surr: Toluene-d8	455	0	500	0	91	73.3	124	464.2	0	0	

Sample ID: **0806534-002AMSD** SampType: **MSD** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: **RW-05** Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2660817**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	545.9	50	500	0	109	69.4	167	529.2	3.11	20	
Benzene	419.8	50	500	0	84	70	139	431.5	2.75	20	
Chlorobenzene	464.1	50	500	0	92.8	69.3	135	465.2	0.237	20	
Toluene	420.2	50	500	0	84	72.1	141	433.2	3.05	20	
Trichloroethene	469.1	50	500	0	93.8	67.4	148	470.1	0.213	20	
Surr: 4-Bromofluorobenzene	430.9	0	500	0	86.2	60.4	132	433.1	0	0	
Surr: Dibromofluoromethane	467.6	0	500	0	93.5	76.2	120	460.9	0	0	
Surr: Toluene-d8	461.6	0	500	0	92.3	73.3	124	467.3	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID: **MB-100597** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2588527**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0		
Isopropyl ether	BRL	5.0	0	0	0	0	0	0	0		
tert-Amyl methyl ether	BRL	5.0	0	0	0	0	0	0	0		
tert-Butyl Alcohol	BRL	5.0	0	0	0	0	0	0	0		

Sample ID: **MB-100596** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588761**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0		
Isopropyl ether	BRL	5.0	0	0	0	0	0	0	0		
tert-Amyl methyl ether	BRL	5.0	0	0	0	0	0	0	0		
tert-Butyl Alcohol	BRL	5.0	0	0	0	0	0	0	0		

Sample ID: **LCS-100597** SampType: **LCS** TestCode: **8260B_OXY_** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2588531**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	43.59	5.0	50	0	87.2	67.8	128	0	0		
Isopropyl ether	54.6	5.0	50	0	109	71.7	146	0	0		
tert-Amyl methyl ether	39.93	5.0	50	0	79.9	64.6	121	0	0		
tert-Butyl Alcohol	259.8	5.0	250	0	104	42.7	153	0	0		

Sample ID: **LCS-100596** SampType: **LCS** TestCode: **8260B_OXY_** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588765**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	42.45	5.0	50	0	84.9	67.8	128	0	0		
Isopropyl ether	51.13	5.0	50	0	102	71.7	146	0	0		
tert-Amyl methyl ether	38.91	5.0	50	0	77.8	64.6	121	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID: **LCS-100596** SampType: **LCS** TestCode: **8260B_OXY_** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588765**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
tert-Butyl Alcohol	206.1	5.0	250	0	82.5	42.7	153	0	0		

Sample ID: **0806534-024AMS** SampType: **MS** TestCode: **8260B_OXY_** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: **RW-02** Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2588533**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	433	50	500	0	86.6	61.6	140	0	0		
Isopropyl ether	764.6	50	500	231.3	107	69.5	151	0	0		
tert-Amyl methyl ether	1615	50	500	1360	50.9	62.3	127	0	0		S
tert-Butyl Alcohol	3946	50	2500	1656	91.6	34.9	189	0	0		

Sample ID: **0806534-002AMS** SampType: **MS** TestCode: **8260B_OXY_** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: **RW-05** Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588768**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	439.6	50	500	0	87.9	61.6	140	0	0		
Isopropyl ether	537.4	50	500	0	107	69.5	151	0	0		
tert-Amyl methyl ether	403.1	50	500	0	80.6	62.3	127	0	0		
tert-Butyl Alcohol	2612	50	2500	0	104	34.9	189	0	0		

Sample ID: **0806534-024AMSD** SampType: **MSD** TestCode: **8260B_OXY_** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: **RW-02** Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2588537**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	435.1	50	500	0	87	61.6	140	433	0.484	20	
Isopropyl ether	759	50	500	231.3	106	69.5	151	764.6	0.735	20	
tert-Amyl methyl ether	1657	50	500	1360	59.4	62.3	127	1615	2.59	20	S
tert-Butyl Alcohol	3222	50	2500	1656	62.6	34.9	189	3946	20.2	40.2	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID: **0806534-002AMSD** SampType: **MSD** TestCode: **8260B_OXY_** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: **RW-05** Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588771**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	457	50	500	0	91.4	61.6	140	439.6	3.88	20	
Isopropyl ether	548.8	50	500	0	110	69.5	151	537.4	2.10	20	
tert-Amyl methyl ether	409.7	50	500	0	81.9	62.3	127	403.1	1.62	20	
tert-Butyl Alcohol	2637	50	2500	0	105	34.9	189	2612	0.930	40.2	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID: **MB-100447** SampType: **MBLK** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/10/2008** RunNo: **127149**
Client ID: Batch ID: **100447** TestNo: **SW8270C** Analysis Date: **6/11/2008** SeqNo: **2585828**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	BRL	10	0	0	0	0	0	0	0		
2-Methylnaphthalene	BRL	10	0	0	0	0	0	0	0		
Acenaphthene	BRL	10	0	0	0	0	0	0	0		
Acenaphthylene	BRL	10	0	0	0	0	0	0	0		
Anthracene	BRL	10	0	0	0	0	0	0	0		
Benz(a)anthracene	BRL	10	0	0	0	0	0	0	0		
Benzo(a)pyrene	BRL	10	0	0	0	0	0	0	0		
Benzo(b)fluoranthene	BRL	10	0	0	0	0	0	0	0		
Benzo(g,h,i)perylene	BRL	10	0	0	0	0	0	0	0		
Benzo(k)fluoranthene	BRL	10	0	0	0	0	0	0	0		
Chrysene	BRL	10	0	0	0	0	0	0	0		
Dibenz(a,h)anthracene	BRL	10	0	0	0	0	0	0	0		
Fluoranthene	BRL	10	0	0	0	0	0	0	0		
Fluorene	BRL	10	0	0	0	0	0	0	0		
Indeno(1,2,3-cd)pyrene	BRL	10	0	0	0	0	0	0	0		
Naphthalene	BRL	10	0	0	0	0	0	0	0		
Phenanthrene	BRL	10	0	0	0	0	0	0	0		
Pyrene	BRL	10	0	0	0	0	0	0	0		
Surr: 2-Fluorobiphenyl	52.14	0	50	0	104	47.4	115	0	0		
Surr: 4-Terphenyl-d14	35.61	0	50	0	71.2	57.5	129	0	0		
Surr: Nitrobenzene-d5	54.84	0	50	0	110	30.2	123	0	0		

Sample ID: **MB-100538** SampType: **MBLK** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127331**
Client ID: Batch ID: **100538** TestNo: **SW8270C** Analysis Date: **6/13/2008** SeqNo: **2590044**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	BRL	10	0	0	0	0	0	0	0		
2-Methylnaphthalene	BRL	10	0	0	0	0	0	0	0		
Acenaphthene	BRL	10	0	0	0	0	0	0	0		
Acenaphthylene	BRL	10	0	0	0	0	0	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID: **MB-100538** SampType: **MBLK** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127331**
Client ID: Batch ID: **100538** TestNo: **SW8270C** Analysis Date: **6/13/2008** SeqNo: **2590044**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	BRL	10	0	0	0	0	0	0	0		
Benz(a)anthracene	BRL	10	0	0	0	0	0	0	0		
Benzo(a)pyrene	BRL	10	0	0	0	0	0	0	0		
Benzo(b)fluoranthene	BRL	10	0	0	0	0	0	0	0		
Benzo(g,h,i)perylene	BRL	10	0	0	0	0	0	0	0		
Benzo(k)fluoranthene	BRL	10	0	0	0	0	0	0	0		
Chrysene	BRL	10	0	0	0	0	0	0	0		
Dibenz(a,h)anthracene	BRL	10	0	0	0	0	0	0	0		
Fluoranthene	BRL	10	0	0	0	0	0	0	0		
Fluorene	BRL	10	0	0	0	0	0	0	0		
Indeno(1,2,3-cd)pyrene	BRL	10	0	0	0	0	0	0	0		
Naphthalene	BRL	10	0	0	0	0	0	0	0		
Phenanthrene	BRL	10	0	0	0	0	0	0	0		
Pyrene	BRL	10	0	0	0	0	0	0	0		
Surr: 2-Fluorobiphenyl	46.23	0	50	0	92.5	47.4	115	0	0		
Surr: 4-Terphenyl-d14	32.9	0	50	0	65.8	57.5	129	0	0		
Surr: Nitrobenzene-d5	51.11	0	50	0	102	30.2	123	0	0		

Sample ID: **LCS-100447** SampType: **LCS** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/10/2008** RunNo: **127149**
Client ID: Batch ID: **100447** TestNo: **SW8270C** Analysis Date: **6/11/2008** SeqNo: **2587104**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	48.25	10	50	0	96.5	55.3	120	0	0		
Acenaphthylene	62.03	10	50	0	124	55.6	120	0	0		S
Anthracene	43.44	10	50	0	86.9	65.4	120	0	0		
Benz(a)anthracene	53.29	10	50	0	107	65.7	120	0	0		
Benzo(a)pyrene	51.91	10	50	0	104	66.5	120	0	0		
Benzo(b)fluoranthene	46.24	10	50	0	92.5	66.2	120	0	0		
Benzo(g,h,i)perylene	46.14	10	50	0	92.3	61.2	120	0	0		
Benzo(k)fluoranthene	54.3	10	50	0	109	66.5	120	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID: **LCS-100447** SampType: **LCS** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/10/2008** RunNo: **127149**
Client ID: Batch ID: **100447** TestNo: **SW8270C** Analysis Date: **6/11/2008** SeqNo: **2587104**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	54.51	10	50	0	109	64.8	120	0	0		
Dibenz(a,h)anthracene	44.31	10	50	0	88.6	62.1	120	0	0		
Fluoranthene	47.16	10	50	0	94.3	64.7	120	0	0		
Fluorene	51.97	10	50	0	104	59.8	120	0	0		
Indeno(1,2,3-cd)pyrene	45.09	10	50	0	90.2	58.9	120	0	0		
Naphthalene	45.43	10	50	0	90.9	50	120	0	0		
Phenanthrene	45.41	10	50	0	90.8	62.6	120	0	0		
Pyrene	55.3	10	50	0	111	64.1	120	0	0		
Surr: 2-Fluorobiphenyl	52.42	0	50	0	105	47.4	115	0	0		
Surr: 4-Terphenyl-d14	44.21	0	50	0	88.4	57.5	129	0	0		
Surr: Nitrobenzene-d5	48.26	0	50	0	96.5	30.2	123	0	0		

Sample ID: **LCS-100538** SampType: **LCS** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127331**
Client ID: Batch ID: **100538** TestNo: **SW8270C** Analysis Date: **6/13/2008** SeqNo: **2590048**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	45.7	10	50	0	91.4	55.3	120	0	0		
Acenaphthylene	49.44	10	50	0	98.9	55.6	120	0	0		
Anthracene	50.74	10	50	0	101	65.4	120	0	0		
Benz(a)anthracene	49.29	10	50	0	98.6	65.7	120	0	0		
Benzo(a)pyrene	43.66	10	50	0	87.3	66.5	120	0	0		
Benzo(b)fluoranthene	45.53	10	50	0	91.1	66.2	120	0	0		
Benzo(g,h,i)perylene	46.53	10	50	0	93.1	61.2	120	0	0		
Benzo(k)fluoranthene	44.96	10	50	0	89.9	66.5	120	0	0		
Chrysene	47.38	10	50	0	94.8	64.8	120	0	0		
Dibenz(a,h)anthracene	48.18	10	50	0	96.4	62.1	120	0	0		
Fluoranthene	50.03	10	50	0	100	64.7	120	0	0		
Fluorene	49.71	10	50	0	99.4	59.8	120	0	0		
Indeno(1,2,3-cd)pyrene	43.76	10	50	0	87.5	58.9	120	0	0		
Naphthalene	43.09	10	50	0	86.2	50	120	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID: **LCS-100538** SampType: **LCS** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127331**
Client ID: Batch ID: **100538** TestNo: **SW8270C** Analysis Date: **6/13/2008** SeqNo: **2590048**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	49.88	10	50	0	99.8	62.6	120	0	0		
Pyrene	48.21	10	50	0	96.4	64.1	120	0	0		
Surr: 2-Fluorobiphenyl	49.75	0	50	0	99.5	47.4	115	0	0		
Surr: 4-Terphenyl-d14	31.31	0	50	0	62.6	57.5	129	0	0		
Surr: Nitrobenzene-d5	53.94	0	50	0	108	30.2	123	0	0		

Sample ID: **0806534-004BMS** SampType: **MS** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/10/2008** RunNo: **127149**
Client ID: **MW-2R** Batch ID: **100447** TestNo: **SW8270C** Analysis Date: **6/11/2008** SeqNo: **2587094**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	44.07	10	50	0	88.1	44.5	120	0	0		
Acenaphthylene	55.46	10	50	0	111	45.6	120	0	0		
Anthracene	40.14	10	50	0	80.3	63.1	120	0	0		
Benz(a)anthracene	48.06	10	50	0	96.1	67.6	120	0	0		
Benzo(a)pyrene	47.1	10	50	0	94.2	64.1	120	0	0		
Benzo(b)fluoranthene	41.81	10	50	0	83.6	63.8	125	0	0		
Benzo(g,h,i)perylene	41.8	10	50	0	83.6	57.9	120	0	0		
Benzo(k)fluoranthene	47.39	10	50	0	94.8	62.2	120	0	0		
Chrysene	48.7	10	50	0	97.4	67.8	120	0	0		
Dibenz(a,h)anthracene	39.82	10	50	0	79.6	60.1	125	0	0		
Fluoranthene	42.28	10	50	0	84.6	63.3	120	0	0		
Fluorene	46.43	10	50	0	92.9	51.5	120	0	0		
Indeno(1,2,3-cd)pyrene	40.84	10	50	0	81.7	53.6	120	0	0		
Naphthalene	42.5	10	50	0	85	25.8	120	0	0		
Phenanthrene	41.79	10	50	0	83.6	60.3	120	0	0		
Pyrene	50.42	10	50	0	101	60.8	120	0	0		
Surr: 2-Fluorobiphenyl	46.85	0	50	0	93.7	47.4	115	0	0		
Surr: 4-Terphenyl-d14	31.57	0	50	0	63.1	57.5	129	0	0		
Surr: Nitrobenzene-d5	44.96	0	50	0	89.9	30.2	123	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID: **0806534-026BMS** SampType: **MS** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127331**
Client ID: **RW-08** Batch ID: **100538** TestNo: **SW8270C** Analysis Date: **6/13/2008** SeqNo: **2590051**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	45.52	10	50	0	91	44.5	120	0	0		
Acenaphthylene	47.44	10	50	0	94.9	45.6	120	0	0		
Anthracene	49.07	10	50	0	98.1	63.1	120	0	0		
Benz(a)anthracene	46.17	10	50	0	92.3	67.6	120	0	0		
Benzo(a)pyrene	42.68	10	50	0	85.4	64.1	120	0	0		
Benzo(b)fluoranthene	43.98	10	50	0	88	63.8	125	0	0		
Benzo(g,h,i)perylene	44.53	10	50	0	89.1	57.9	120	0	0		
Benzo(k)fluoranthene	42	10	50	0	84	62.2	120	0	0		
Chrysene	43.93	10	50	0	87.9	67.8	120	0	0		
Dibenz(a,h)anthracene	46.88	10	50	0	93.8	60.1	125	0	0		
Fluoranthene	47.74	10	50	0	95.5	63.3	120	0	0		
Fluorene	48.6	10	50	0	97.2	51.5	120	0	0		
Indeno(1,2,3-cd)pyrene	41.73	10	50	0	83.5	53.6	120	0	0		
Phenanthrene	46.76	10	50	0	93.5	60.3	120	0	0		
Pyrene	44.32	10	50	0	88.6	60.8	120	0	0		
Surr: 2-Fluorobiphenyl	44.48	0	50	0	89	47.4	115	0	0		
Surr: 4-Terphenyl-d14	50.29	0	50	0	101	57.5	129	0	0		
Surr: Nitrobenzene-d5	49.77	0	50	0	99.5	30.2	123	0	0		

Sample ID: **0806534-026BMS** SampType: **MS** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127331**
Client ID: **RW-08** Batch ID: **100538** TestNo: **SW8270C** Analysis Date: **6/13/2008** SeqNo: **2591024**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	247.2	50	50	235.4	23.5	25.8	120	0	0		S

Sample ID: **0806534-004BMSD** SampType: **MSD** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/10/2008** RunNo: **127149**
Client ID: **MW-2R** Batch ID: **100447** TestNo: **SW8270C** Analysis Date: **6/11/2008** SeqNo: **2587096**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	43.38	10	50	0	86.8	44.5	120	44.07	1.58	41.5	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID: **0806534-004BMSD** SampType: **MSD** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/10/2008** RunNo: **127149**
Client ID: **MW-2R** Batch ID: **100447** TestNo: **SW8270C** Analysis Date: **6/11/2008** SeqNo: **2587096**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	54.89	10	50	0	110	45.6	120	55.46	1.03	45.7	
Anthracene	40.83	10	50	0	81.7	63.1	120	40.14	1.70	20	
Benz(a)anthracene	49.15	10	50	0	98.3	67.6	120	48.06	2.24	20	
Benzo(a)pyrene	47.46	10	50	0	94.9	64.1	120	47.1	0.761	20	
Benzo(b)fluoranthene	42.41	10	50	0	84.8	63.8	125	41.81	1.42	20	
Benzo(g,h,i)perylene	43.03	10	50	0	86.1	57.9	120	41.8	2.90	20.4	
Benzo(k)fluoranthene	50.15	10	50	0	100	62.2	120	47.39	5.66	20	
Chrysene	49	10	50	0	98	67.8	120	48.7	0.614	20	
Dibenz(a,h)anthracene	41	10	50	0	82	60.1	125	39.82	2.92	20	
Fluoranthene	43.79	10	50	0	87.6	63.3	120	42.28	3.51	20	
Fluorene	46.98	10	50	0	94	51.5	120	46.43	1.18	32.4	
Indeno(1,2,3-cd)pyrene	41.07	10	50	0	82.1	53.6	120	40.84	0.562	21.7	
Naphthalene	39.28	10	50	0	78.6	25.8	120	42.5	7.87	66.7	
Phenanthrene	42.36	10	50	0	84.7	60.3	120	41.79	1.35	20	
Pyrene	50.89	10	50	0	102	60.8	120	50.42	0.928	20	
Surr: 2-Fluorobiphenyl	45.95	0	50	0	91.9	47.4	115	46.85	0	0	
Surr: 4-Terphenyl-d14	31.24	0	50	0	62.5	57.5	129	31.57	0	0	
Surr: Nitrobenzene-d5	42.36	0	50	0	84.7	30.2	123	44.96	0	0	

Sample ID: **0806534-026BMSD** SampType: **MSD** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127331**
Client ID: **RW-08** Batch ID: **100538** TestNo: **SW8270C** Analysis Date: **6/13/2008** SeqNo: **2590056**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	46.08	10	50	0	92.2	44.5	120	45.52	1.22	41.5	
Acenaphthylene	48.43	10	50	0	96.9	45.6	120	47.44	2.07	45.7	
Anthracene	49.39	10	50	0	98.8	63.1	120	49.07	0.650	20	
Benz(a)anthracene	46.84	10	50	0	93.7	67.6	120	46.17	1.44	20	
Benzo(a)pyrene	42.09	10	50	0	84.2	64.1	120	42.68	1.39	20	
Benzo(b)fluoranthene	43.73	10	50	0	87.5	63.8	125	43.98	0.570	20	
Benzo(g,h,i)perylene	45.3	10	50	0	90.6	57.9	120	44.53	1.71	20.4	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID: **0806534-026BMSD** SampType: **MSD** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127331**
Client ID: **RW-08** Batch ID: **100538** TestNo: **SW8270C** Analysis Date: **6/13/2008** SeqNo: **2590056**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	41.72	10	50	0	83.4	62.2	120	42	0.669	20	
Chrysene	44.79	10	50	0	89.6	67.8	120	43.93	1.94	20	
Dibenz(a,h)anthracene	48.01	10	50	0	96	60.1	125	46.88	2.38	20	
Fluoranthene	47.87	10	50	0	95.7	63.3	120	47.74	0.272	20	
Fluorene	48.91	10	50	0	97.8	51.5	120	48.6	0.636	32.4	
Indeno(1,2,3-cd)pyrene	43.09	10	50	0	86.2	53.6	120	41.73	3.21	21.7	
Phenanthrene	46.86	10	50	0	93.7	60.3	120	46.76	0.214	20	
Pyrene	45.71	10	50	0	91.4	60.8	120	44.32	3.09	20	
Surr: 2-Fluorobiphenyl	43.26	0	50	0	86.5	47.4	115	44.48	0	0	
Surr: 4-Terphenyl-d14	48.99	0	50	0	98	57.5	129	50.29	0	0	
Surr: Nitrobenzene-d5	50.7	0	50	0	101	30.2	123	49.77	0	0	

Sample ID: **0806534-026BMSD** SampType: **MSD** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127331**
Client ID: **RW-08** Batch ID: **100538** TestNo: **SW8270C** Analysis Date: **6/13/2008** SeqNo: **2591030**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	235.9	50	50	235.4	0.9	25.8	120	247.2	4.68	66.7	S

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 07, 2010

Joe King
Winter Environmental
3350 Green Pointe Parkway, Suite 200
Norcross GA 30092

TEL: (404) 965-2323
FAX: (404) 223-6251

RE: Fashion Care

Dear Joe King: Order No: 1005N93

Analytical Environmental Services, Inc. received 8 samples on 5/28/2010 3:10:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

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

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

Chantelle Kanhai
Project Manager

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

CHAIN OF CUSTODY

Work Order: 100 5N93

Date: 5-28-10 Page 1 of 1

COMPANY: Winter Environmental

ADDRESS: 3350 Green Pointe Parkway Suite 200 Norcross GA 30092

PHONE: 404 588 3300

FAX: 404-223 6251

SAMPLED BY: JDK

SIGNATURE: Jeff DK

ANALYSIS REQUESTED: VOC, VOC

PRESERVATION (See codes): H, S/M

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOC (H)	VOC (S/M)	REMARKS	No # of Containers
1	MW-19	5-27-10	1310	X		GW	2			2
2	MW-21	5-27-10	1410	X		GW	2			2
3	MW-14	5-27-10	1625	X		GW	2			2
4	SD-1	5-28-10	1345	X		SE		4		4
5	SD-2	5-28-10	1415	X		SE		4		4
6	SD-3	5-28-10	1430	X		SE		4		4
7	DUP20110	5-28-10		X		SE		4		4
8	TBLK20110	5-27-10	1300	X		W	2			2
9										
10										
11										
12										
13										
14										

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Jeff DK	5-28-10 3:12	1: [illegible]	5/28/10 3:10
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME:
PROJECT #:
SITE ADDRESS:
SEND REPORT TO:
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers: 24

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 7-Jun-10

Client: Winter Environmental
Project: Fashion Care
Lab ID: 1005N93

Case Narrative

The project name "Fashion Care" was taken from the sample containers.

Volatiles Organic Compounds Analysis by Method 8260B:

Percent recovery for the internal standard 1,4-Dichlorobenzene-d4 on sample 1005N93-006A was outside control limits biased low due to suspected matrix interference. All other internal standard recoveries were within control limits.

Percent recoveries for all internal standard on sample 1005N93-004A was outside control limits biased low due to suspected matrix interference.

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	MW-19
Project:	Fashion Care	**Collection Date:**	5/27/2010 1:10:00 PM
Lab ID:	1005N93-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,1,2-Trichloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,1-Dichloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,1-Dichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,2-Dibromoethane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,2-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,2-Dichloroethane	BRL	1.0		ug/L	130295	1	06/05/2010 16:46	JT
1,2-Dichloropropane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,3-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
1,4-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
2-Butanone	BRL	50		ug/L	130295	1	06/05/2010 16:46	JT
2-Hexanone	BRL	10		ug/L	130295	1	06/05/2010 16:46	JT
4-Methyl-2-pentanone	BRL	10		ug/L	130295	1	06/05/2010 16:46	JT
Acetone	BRL	50		ug/L	130295	1	06/05/2010 16:46	JT
Benzene	BRL	1.0		ug/L	130295	1	06/05/2010 16:46	JT
Bromodichloromethane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Bromoform	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Bromomethane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Carbon disulfide	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Carbon tetrachloride	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Chlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Chloroethane	BRL	10		ug/L	130295	1	06/05/2010 16:46	JT
Chloroform	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Chloromethane	BRL	10		ug/L	130295	1	06/05/2010 16:46	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Cyclohexane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Dibromochloromethane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Dichlorodifluoromethane	BRL	10		ug/L	130295	1	06/05/2010 16:46	JT
Ethylbenzene	2.7	1.0		ug/L	130295	1	06/05/2010 16:46	JT
Freon-113	BRL	10		ug/L	130295	1	06/05/2010 16:46	JT
Isopropylbenzene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
m,p-Xylene	3.6	1.0		ug/L	130295	1	06/05/2010 16:46	JT
Methyl acetate	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Methyl tert-butyl ether	1.7	1.0		ug/L	130295	1	06/05/2010 16:46	JT
Methylcyclohexane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Methylene chloride	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
o-Xylene	BRL	1.0		ug/L	130295	1	06/05/2010 16:46	JT

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	MW-19
Project:	Fashion Care	**Collection Date:**	5/27/2010 1:10:00 PM
Lab ID:	1005N93-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Tetrachloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Toluene	BRL	1.0		ug/L	130295	1	06/05/2010 16:46	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Trichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Trichlorofluoromethane	BRL	5.0		ug/L	130295	1	06/05/2010 16:46	JT
Vinyl chloride	BRL	2.0		ug/L	130295	1	06/05/2010 16:46	JT
Surr: 4-Bromofluorobenzene	86	60.1-127		%REC	130295	1	06/05/2010 16:46	JT
Surr: Dibromofluoromethane	117	79.6-126		%REC	130295	1	06/05/2010 16:46	JT
Surr: Toluene-d8	96.9	78-116		%REC	130295	1	06/05/2010 16:46	JT

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	MW-21
Project:	Fashion Care	**Collection Date:**	5/27/2010 2:10:00 PM
Lab ID:	1005N93-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,1,2-Trichloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,1-Dichloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,1-Dichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,2-Dibromoethane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,2-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,2-Dichloroethane	BRL	1.0		ug/L	130295	1	06/05/2010 12:10	JT
1,2-Dichloropropane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,3-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
1,4-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
2-Butanone	BRL	50		ug/L	130295	1	06/05/2010 12:10	JT
2-Hexanone	31	10		ug/L	130295	1	06/05/2010 12:10	JT
4-Methyl-2-pentanone	17	10		ug/L	130295	1	06/05/2010 12:10	JT
Acetone	BRL	50		ug/L	130295	1	06/05/2010 12:10	JT
Benzene	1200	10		ug/L	130295	10	06/05/2010 21:33	JT
Bromodichloromethane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Bromoform	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Bromomethane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Carbon disulfide	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Carbon tetrachloride	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Chlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Chloroethane	BRL	10		ug/L	130295	1	06/05/2010 12:10	JT
Chloroform	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Chloromethane	BRL	10		ug/L	130295	1	06/05/2010 12:10	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Cyclohexane	30	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Dibromochloromethane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Dichlorodifluoromethane	BRL	10		ug/L	130295	1	06/05/2010 12:10	JT
Ethylbenzene	500	10		ug/L	130295	10	06/05/2010 21:33	JT
Freon-113	BRL	10		ug/L	130295	1	06/05/2010 12:10	JT
Isopropylbenzene	28	5.0		ug/L	130295	1	06/05/2010 12:10	JT
m,p-Xylene	1200	10		ug/L	130295	10	06/05/2010 21:33	JT
Methyl acetate	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Methyl tert-butyl ether	270	10		ug/L	130295	10	06/05/2010 21:33	JT
Methylcyclohexane	39	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Methylene chloride	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
o-Xylene	1100	10		ug/L	130295	10	06/05/2010 21:33	JT

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	MW-21
Project:	Fashion Care	**Collection Date:**	5/27/2010 2:10:00 PM
Lab ID:	1005N93-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Tetrachloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Toluene	260	10		ug/L	130295	10	06/05/2010 21:33	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Trichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Trichlorofluoromethane	BRL	5.0		ug/L	130295	1	06/05/2010 12:10	JT
Vinyl chloride	BRL	2.0		ug/L	130295	1	06/05/2010 12:10	JT
Surr: 4-Bromofluorobenzene	96.3	60.1-127		%REC	130295	10	06/05/2010 21:33	JT
Surr: 4-Bromofluorobenzene	102	60.1-127		%REC	130295	1	06/05/2010 12:10	JT
Surr: Dibromofluoromethane	98.4	79.6-126		%REC	130295	1	06/05/2010 12:10	JT
Surr: Dibromofluoromethane	102	79.6-126		%REC	130295	10	06/05/2010 21:33	JT
Surr: Toluene-d8	97.5	78-116		%REC	130295	10	06/05/2010 21:33	JT
Surr: Toluene-d8	99.6	78-116		%REC	130295	1	06/05/2010 12:10	JT

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	MW-14
Project:	Fashion Care	**Collection Date:**	5/27/2010 4:25:00 PM
Lab ID:	1005N93-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,1,2-Trichloroethane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,1-Dichloroethane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,1-Dichloroethene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,2-Dibromoethane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,2-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,2-Dichloroethane	BRL	1.0		ug/L	130295	1	06/07/2010 14:00	JT
1,2-Dichloropropane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,3-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
1,4-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
2-Butanone	BRL	50		ug/L	130295	1	06/07/2010 14:00	JT
2-Hexanone	BRL	10		ug/L	130295	1	06/07/2010 14:00	JT
4-Methyl-2-pentanone	BRL	10		ug/L	130295	1	06/07/2010 14:00	JT
Acetone	BRL	50		ug/L	130295	1	06/07/2010 14:00	JT
Benzene	BRL	1.0		ug/L	130295	1	06/07/2010 14:00	JT
Bromodichloromethane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Bromoform	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Bromomethane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Carbon disulfide	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Carbon tetrachloride	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Chlorobenzene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Chloroethane	BRL	10		ug/L	130295	1	06/07/2010 14:00	JT
Chloroform	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Chloromethane	BRL	10		ug/L	130295	1	06/07/2010 14:00	JT
cis-1,2-Dichloroethene	7.4	5.0		ug/L	130295	1	06/07/2010 14:00	JT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Cyclohexane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Dibromochloromethane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Dichlorodifluoromethane	BRL	10		ug/L	130295	1	06/07/2010 14:00	JT
Ethylbenzene	BRL	1.0		ug/L	130295	1	06/07/2010 14:00	JT
Freon-113	BRL	10		ug/L	130295	1	06/07/2010 14:00	JT
Isopropylbenzene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
m,p-Xylene	BRL	1.0		ug/L	130295	1	06/07/2010 14:00	JT
Methyl acetate	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Methyl tert-butyl ether	3.3	1.0		ug/L	130295	1	06/07/2010 14:00	JT
Methylcyclohexane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Methylene chloride	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
o-Xylene	BRL	1.0		ug/L	130295	1	06/07/2010 14:00	JT

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	MW-14
Project:	Fashion Care	**Collection Date:**	5/27/2010 4:25:00 PM
Lab ID:	1005N93-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Tetrachloroethene	10	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Toluene	BRL	1.0		ug/L	130295	1	06/07/2010 14:00	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Trichloroethene	20	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Trichlorofluoromethane	BRL	5.0		ug/L	130295	1	06/07/2010 14:00	JT
Vinyl chloride	BRL	2.0		ug/L	130295	1	06/07/2010 14:00	JT
Surr: 4-Bromofluorobenzene	82.8	60.1-127		%REC	130295	1	06/07/2010 14:00	JT
Surr: Dibromofluoromethane	111	79.6-126		%REC	130295	1	06/07/2010 14:00	JT
Surr: Toluene-d8	94.8	78-116		%REC	130295	1	06/07/2010 14:00	JT

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	SD-1
Project:	Fashion Care	**Collection Date:**	5/28/2010 1:45:00 PM
Lab ID:	1005N93-004	**Matrix:**	Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,1,2,2-Tetrachloroethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,1,2-Trichloroethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,1-Dichloroethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,1-Dichloroethene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,2,4-Trichlorobenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,2-Dibromo-3-chloropropane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,2-Dibromoethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,2-Dichlorobenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,2-Dichloroethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,2-Dichloropropane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,3-Dichlorobenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
1,4-Dichlorobenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
2-Butanone	BRL	36		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
2-Hexanone	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
4-Methyl-2-pentanone	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Acetone	BRL	72		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Benzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Bromodichloromethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Bromoform	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Bromomethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Carbon disulfide	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Carbon tetrachloride	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Chlorobenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Chloroethane	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Chloroform	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Chloromethane	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
cis-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
cis-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Cyclohexane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Dibromochloromethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Dichlorodifluoromethane	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Ethylbenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Freon-113	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Isopropylbenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
m,p-Xylene	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Methyl acetate	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Methyl tert-butyl ether	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Methylcyclohexane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Methylene chloride	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
o-Xylene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	SD-1
Project:	Fashion Care	**Collection Date:**	5/28/2010 1:45:00 PM
Lab ID:	1005N93-004	**Matrix:**	Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
Styrene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Tetrachloroethene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Toluene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
trans-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
trans-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Trichloroethene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Trichlorofluoromethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Vinyl chloride	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 17:28	JE
Surr: 4-Bromofluorobenzene	68.5	58.2-140		%REC	130407	1	06/04/2010 17:28	JE
Surr: Dibromofluoromethane	133	71.1-132	S	%REC	130407	1	06/04/2010 17:28	JE
Surr: Toluene-d8	98.8	77.6-119		%REC	130407	1	06/04/2010 17:28	JE
PERCENT MOISTURE D2216								
Percent Moisture	5.01	0		wt%	R173178	1	06/03/2010 19:00	AS

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	SD-2
Project:	Fashion Care	**Collection Date:**	5/28/2010 2:15:00 PM
Lab ID:	1005N93-005	**Matrix:**	Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,1,2,2-Tetrachloroethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,1,2-Trichloroethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,1-Dichloroethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,1-Dichloroethene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,2,4-Trichlorobenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,2-Dibromo-3-chloropropane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,2-Dibromoethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,2-Dichlorobenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,2-Dichloroethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,2-Dichloropropane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,3-Dichlorobenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
1,4-Dichlorobenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
2-Butanone	BRL	36		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
2-Hexanone	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
4-Methyl-2-pentanone	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Acetone	280	72		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Benzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Bromodichloromethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Bromoform	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Bromomethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Carbon disulfide	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Carbon tetrachloride	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Chlorobenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Chloroethane	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Chloroform	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Chloromethane	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
cis-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
cis-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Cyclohexane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Dibromochloromethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Dichlorodifluoromethane	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Ethylbenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Freon-113	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Isopropylbenzene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
m,p-Xylene	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Methyl acetate	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Methyl tert-butyl ether	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Methylcyclohexane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Methylene chloride	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
o-Xylene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	SD-2
Project:	Fashion Care	**Collection Date:**	5/28/2010 2:15:00 PM
Lab ID:	1005N93-005	**Matrix:**	Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
Styrene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Tetrachloroethene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Toluene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
trans-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
trans-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Trichloroethene	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Trichlorofluoromethane	BRL	3.6		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Vinyl chloride	BRL	7.2		ug/Kg-dry	130407	1	06/04/2010 04:28	JE
Surr: 4-Bromofluorobenzene	80.1	58.2-140		%REC	130407	1	06/04/2010 04:28	JE
Surr: Dibromofluoromethane	119	71.1-132		%REC	130407	1	06/04/2010 04:28	JE
Surr: Toluene-d8	98.6	77.6-119		%REC	130407	1	06/04/2010 04:28	JE
PERCENT MOISTURE D2216								
Percent Moisture	21.3	0		wt%	R173178	1	06/03/2010 19:00	AS

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	SD-3
Project:	Fashion Care	**Collection Date:**	5/28/2010 2:30:00 PM
Lab ID:	1005N93-006	**Matrix:**	Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,1,2,2-Tetrachloroethane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,1,2-Trichloroethane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,1-Dichloroethane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,1-Dichloroethene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,2,4-Trichlorobenzene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,2-Dibromo-3-chloropropane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,2-Dibromoethane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,2-Dichlorobenzene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,2-Dichloroethane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,2-Dichloropropane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,3-Dichlorobenzene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
1,4-Dichlorobenzene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
2-Butanone	BRL	41		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
2-Hexanone	BRL	8.2		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
4-Methyl-2-pentanone	BRL	8.2		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Acetone	240	82		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Benzene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Bromodichloromethane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Bromoform	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Bromomethane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Carbon disulfide	BRL	8.2		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Carbon tetrachloride	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Chlorobenzene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Chloroethane	BRL	8.2		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Chloroform	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Chloromethane	BRL	8.2		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
cis-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
cis-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Cyclohexane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Dibromochloromethane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Dichlorodifluoromethane	BRL	8.2		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Ethylbenzene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Freon-113	BRL	8.2		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Isopropylbenzene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
m,p-Xylene	BRL	8.2		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Methyl acetate	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Methyl tert-butyl ether	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Methylcyclohexane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Methylene chloride	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
o-Xylene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	SD-3
Project:	Fashion Care	**Collection Date:**	5/28/2010 2:30:00 PM
Lab ID:	1005N93-006	**Matrix:**	Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
Styrene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Tetrachloroethene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Toluene	4.7	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
trans-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
trans-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Trichloroethene	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Trichlorofluoromethane	BRL	4.1		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Vinyl chloride	BRL	8.2		ug/Kg-dry	130407	1	06/04/2010 17:03	JE
Surr: 4-Bromofluorobenzene	75.1	58.2-140		%REC	130407	1	06/04/2010 17:03	JE
Surr: Dibromofluoromethane	123	71.1-132		%REC	130407	1	06/04/2010 17:03	JE
Surr: Toluene-d8	102	77.6-119		%REC	130407	1	06/04/2010 17:03	JE
PERCENT MOISTURE D2216								
Percent Moisture	31.1	0		wt%	R173178	1	06/03/2010 19:00	AS

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	DUP 20110
Project:	Fashion Care	**Collection Date:**	5/28/2010
Lab ID:	1005N93-007	**Matrix:**	Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,1,2,2-Tetrachloroethane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,1,2-Trichloroethane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,1-Dichloroethane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,1-Dichloroethene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,2,4-Trichlorobenzene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,2-Dibromo-3-chloropropane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,2-Dibromoethane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,2-Dichlorobenzene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,2-Dichloroethane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,2-Dichloropropane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,3-Dichlorobenzene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
1,4-Dichlorobenzene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
2-Butanone	BRL	35		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
2-Hexanone	BRL	6.9		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
4-Methyl-2-pentanone	BRL	6.9		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Acetone	230	69		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Benzene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Bromodichloromethane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Bromoform	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Bromomethane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Carbon disulfide	BRL	6.9		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Carbon tetrachloride	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Chlorobenzene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Chloroethane	BRL	6.9		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Chloroform	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Chloromethane	BRL	6.9		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
cis-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
cis-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Cyclohexane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Dibromochloromethane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Dichlorodifluoromethane	BRL	6.9		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Ethylbenzene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Freon-113	BRL	6.9		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Isopropylbenzene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
m,p-Xylene	BRL	6.9		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Methyl acetate	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Methyl tert-butyl ether	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Methylcyclohexane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Methylene chloride	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
o-Xylene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	DUP 20110
Project:	Fashion Care	**Collection Date:**	5/28/2010
Lab ID:	1005N93-007	**Matrix:**	Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
Styrene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Tetrachloroethene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Toluene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
trans-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
trans-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Trichloroethene	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Trichlorofluoromethane	BRL	3.5		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Vinyl chloride	BRL	6.9		ug/Kg-dry	130407	1	06/04/2010 05:17	JE
Surr: 4-Bromofluorobenzene	83.2	58.2-140		%REC	130407	1	06/04/2010 05:17	JE
Surr: Dibromofluoromethane	127	71.1-132		%REC	130407	1	06/04/2010 05:17	JE
Surr: Toluene-d8	106	77.6-119		%REC	130407	1	06/04/2010 05:17	JE
PERCENT MOISTURE D2216								
Percent Moisture	20.2	0		wt%	R173178	1	06/03/2010 19:00	AS

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	TBLK 20110
Project:	Fashion Care	**Collection Date:**	5/27/2010 1:00:00 PM
Lab ID:	1005N93-008	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,1,2-Trichloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,1-Dichloroethane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,1-Dichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,2-Dibromoethane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,2-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,2-Dichloroethane	BRL	1.0		ug/L	130295	1	06/05/2010 13:08	JT
1,2-Dichloropropane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,3-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
1,4-Dichlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
2-Butanone	BRL	50		ug/L	130295	1	06/05/2010 13:08	JT
2-Hexanone	BRL	10		ug/L	130295	1	06/05/2010 13:08	JT
4-Methyl-2-pentanone	BRL	10		ug/L	130295	1	06/05/2010 13:08	JT
Acetone	BRL	50		ug/L	130295	1	06/05/2010 13:08	JT
Benzene	BRL	1.0		ug/L	130295	1	06/05/2010 13:08	JT
Bromodichloromethane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Bromoform	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Bromomethane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Carbon disulfide	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Carbon tetrachloride	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Chlorobenzene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Chloroethane	BRL	10		ug/L	130295	1	06/05/2010 13:08	JT
Chloroform	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Chloromethane	BRL	10		ug/L	130295	1	06/05/2010 13:08	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Cyclohexane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Dibromochloromethane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Dichlorodifluoromethane	BRL	10		ug/L	130295	1	06/05/2010 13:08	JT
Ethylbenzene	BRL	1.0		ug/L	130295	1	06/05/2010 13:08	JT
Freon-113	BRL	10		ug/L	130295	1	06/05/2010 13:08	JT
Isopropylbenzene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
m,p-Xylene	BRL	1.0		ug/L	130295	1	06/05/2010 13:08	JT
Methyl acetate	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Methyl tert-butyl ether	BRL	1.0		ug/L	130295	1	06/05/2010 13:08	JT
Methylcyclohexane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Methylene chloride	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
o-Xylene	BRL	1.0		ug/L	130295	1	06/05/2010 13:08	JT

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 7-Jun-10

Client:	Winter Environmental	**Client Sample ID:**	TBLK 20110
Project:	Fashion Care	**Collection Date:**	5/27/2010 1:00:00 PM
Lab ID:	1005N93-008	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Tetrachloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Toluene	BRL	1.0		ug/L	130295	1	06/05/2010 13:08	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Trichloroethene	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Trichlorofluoromethane	BRL	5.0		ug/L	130295	1	06/05/2010 13:08	JT
Vinyl chloride	BRL	2.0		ug/L	130295	1	06/05/2010 13:08	JT
Surr: 4-Bromofluorobenzene	88.3	60.1-127		%REC	130295	1	06/05/2010 13:08	JT
Surr: Dibromofluoromethane	107	79.6-126		%REC	130295	1	06/05/2010 13:08	JT
Surr: Toluene-d8	95.4	78-116		%REC	130295	1	06/05/2010 13:08	JT

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Winter Env Work Order Number 1005N93

Checklist completed by M. [signature] 5/28/10
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

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

Cooler #1 3.6°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

Analytical Environmental Services, Inc

Date: 7-Jun-10

Client: Winter Environmental
Project: Fashion Care
Lab Order: 1005N93

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1005N93-001A	MW-19	5/27/2010 1:10:00PM	Groundwater	TCL VOLATILE ORGANICS		06/02/2010	06/05/2010
1005N93-002A	MW-21	5/27/2010 2:10:00PM	Groundwater	TCL VOLATILE ORGANICS		06/02/2010	06/05/2010
1005N93-003A	MW-14	5/27/2010 4:25:00PM	Groundwater	TCL VOLATILE ORGANICS		06/02/2010	06/05/2010
1005N93-003A	MW-14	5/27/2010 4:25:00PM	Groundwater	TCL VOLATILE ORGANICS		06/02/2010	06/07/2010
1005N93-004A	SD-1	5/28/2010 1:45:00PM	Sediment	TCL VOLATILE ORGANICS		06/03/2010	06/04/2010
1005N93-004B	SD-1	5/28/2010 1:45:00PM	Sediment	PERCENT MOISTURE			06/03/2010
1005N93-005A	SD-2	5/28/2010 2:15:00PM	Sediment	TCL VOLATILE ORGANICS		06/03/2010	06/04/2010
1005N93-005B	SD-2	5/28/2010 2:15:00PM	Sediment	PERCENT MOISTURE			06/03/2010
1005N93-006A	SD-3	5/28/2010 2:30:00PM	Sediment	TCL VOLATILE ORGANICS		06/03/2010	06/04/2010
1005N93-006B	SD-3	5/28/2010 2:30:00PM	Sediment	PERCENT MOISTURE			06/03/2010
1005N93-007A	DUP 20110	5/28/2010 12:00:00AM	Sediment	TCL VOLATILE ORGANICS		06/03/2010	06/04/2010
1005N93-007B	DUP 20110	5/28/2010 12:00:00AM	Sediment	PERCENT MOISTURE			06/03/2010
1005N93-008A	TBLK 20110	5/27/2010 1:00:00PM	Aqueous	TCL VOLATILE ORGANICS		06/02/2010	06/05/2010

Analytical Environmental Services, Inc

Date: 7-Jun-10

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1005N93

ANALYTICAL QC SUMMARY REPORT

BatchID: 130295

Sample ID: **MB-130295** Client ID: Units: **ug/L** Prep Date: **06/02/2010** Run No: **172995**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130295** Analysis Date: **06/02/2010** Seq No: **3596941**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Benzene	BRL	1.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	

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

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1005N93

ANALYTICAL QC SUMMARY REPORT

BatchID: 130295

Sample ID: **MB-130295** Client ID: Units: **ug/L** Prep Date: **06/02/2010** Run No: **172995**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130295** Analysis Date: **06/02/2010** Seq No: **3596941**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	1.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	1.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	1.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	1.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	43.17	0	50	0	86.3	60.1	127	0	0	0	
Surr: Dibromofluoromethane	50.14	0	50	0	100	79.6	126	0	0	0	
Surr: Toluene-d8	44.67	0	50	0	89.3	78	116	0	0	0	

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

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1005N93

ANALYTICAL QC SUMMARY REPORT

BatchID: 130295

Sample ID: **LCS-130295** Client ID: Units: **ug/L** Prep Date: **06/02/2010** Run No: **172995**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130295** Analysis Date: **06/02/2010** Seq No: **3596940**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	44.87	5.0	50	0	89.7	61.4	146	0	0	0	
Benzene	48.99	1.0	50	0	98	72.8	131	0	0	0	
Chlorobenzene	48.04	5.0	50	0	96.1	76	123	0	0	0	
Toluene	47.46	1.0	50	0	94.9	74.7	128	0	0	0	
Trichloroethene	45.79	5.0	50	0	91.6	74.4	130	0	0	0	
Surr: 4-Bromofluorobenzene	48.52	0	50	0	97	60.1	127	0	0	0	
Surr: Dibromofluoromethane	50.83	0	50	0	102	79.6	126	0	0	0	
Surr: Toluene-d8	49.11	0	50	0	98.2	78	116	0	0	0	

Sample ID: **1005O45-001AMS** Client ID: Units: **ug/L** Prep Date: **06/02/2010** Run No: **172995**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130295** Analysis Date: **06/02/2010** Seq No: **3597512**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	31610	2500	25000	0	126	48.8	172	0	0	0	
Benzene	28630	500	25000	0	114	64.5	143	0	0	0	
Chlorobenzene	26630	2500	25000	0	107	74.5	129	0	0	0	
Toluene	27060	500	25000	0	108	62	145	0	0	0	
Trichloroethene	28010	2500	25000	0	112	70.3	140	0	0	0	
Surr: 4-Bromofluorobenzene	20830	0	25000	0	83.3	60.1	127	0	0	0	
Surr: Dibromofluoromethane	25480	0	25000	0	102	79.6	126	0	0	0	
Surr: Toluene-d8	22670	0	25000	0	90.7	78	116	0	0	0	

Sample ID: **1005O45-001AMSD** Client ID: Units: **ug/L** Prep Date: **06/02/2010** Run No: **172995**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130295** Analysis Date: **06/02/2010** Seq No: **3597514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	31120	2500	25000	0	124	48.8	172	31610	1.56	21.6	
Benzene	28560	500	25000	0	114	64.5	143	28630	0.245	18.3	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 7-Jun-10

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1005N93

ANALYTICAL QC SUMMARY REPORT

BatchID: 130295

Sample ID: **1005O45-001AMSD** Client ID: Units: **ug/L** Prep Date: **06/02/2010** Run No: **172995**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130295** Analysis Date: **06/02/2010** Seq No: **3597514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	26180	2500	25000	0	105	74.5	129	26630	1.72	19.2	
Toluene	26530	500	25000	0	106	62	145	27060	1.98	21.2	
Trichloroethene	28840	2500	25000	0	115	70.3	140	28010	2.9	20.3	
Surr: 4-Bromofluorobenzene	21260	0	25000	0	85	60.1	127	20830	0	0	
Surr: Dibromofluoromethane	25070	0	25000	0	100	79.6	126	25480	0	0	
Surr: Toluene-d8	22640	0	25000	0	90.5	78	116	22670	0	0	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 7-Jun-10

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1005N93

ANALYTICAL QC SUMMARY REPORT

BatchID: 130407

Sample ID: **MB-130407** Client ID: Units: **ug/Kg** Prep Date: **06/03/2010** Run No: **173224**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130407** Analysis Date: **06/04/2010** Seq No: **3601027**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	100	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	10	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	

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

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1005N93

ANALYTICAL QC SUMMARY REPORT

BatchID: 130407

Sample ID: **MB-130407** Client ID: Units: **ug/Kg** Prep Date: **06/03/2010** Run No: **173224**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130407** Analysis Date: **06/04/2010** Seq No: **3601027**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	10	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	10	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	43.95	0	50	0	87.9	58.2	140	0	0	0	
Surr: Dibromofluoromethane	59.09	0	50	0	118	71.1	132	0	0	0	
Surr: Toluene-d8	49.94	0	50	0	99.9	77.6	119	0	0	0	

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

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1005N93

ANALYTICAL QC SUMMARY REPORT

BatchID: 130407

Sample ID: **LCS-130407** Client ID: Units: **ug/Kg** Prep Date: **06/03/2010** Run No: **173224**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130407** Analysis Date: **06/03/2010** Seq No: **3600978**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	48.64	5.0	50	0	97.3	66.1	158	0	0	0	
Benzene	46.43	5.0	50	0	92.9	68.7	139	0	0	0	
Chlorobenzene	45.96	5.0	50	0	91.9	74.1	136	0	0	0	
Toluene	46.03	5.0	50	0	92.1	68.5	139	0	0	0	
Trichloroethene	44.28	5.0	50	0	88.6	74.5	137	0	0	0	
Surr: 4-Bromofluorobenzene	52.53	0	50	0	105	58.2	140	0	0	0	
Surr: Dibromofluoromethane	48.41	0	50	0	96.8	71.1	132	0	0	0	
Surr: Toluene-d8	49.77	0	50	0	99.5	77.6	119	0	0	0	

Sample ID: **1005M42-005AMS** Client ID: Units: **ug/Kg-dry** Prep Date: **06/03/2010** Run No: **173224**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130407** Analysis Date: **06/03/2010** Seq No: **3601208**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	67.49	6.0	60.28	0	112	60.6	160	0	0	0	
Benzene	71.67	6.0	60.28	0	119	64	142	0	0	0	
Chlorobenzene	68.02	6.0	60.28	0	113	70.6	140	0	0	0	
Toluene	66.03	6.0	60.28	0	110	61.6	143	0	0	0	
Trichloroethene	67.17	6.0	60.28	0	111	70.3	147	0	0	0	
Surr: 4-Bromofluorobenzene	62.07	0	60.28	0	103	58.2	140	0	0	0	
Surr: Dibromofluoromethane	66.70	0	60.28	0	111	71.1	132	0	0	0	
Surr: Toluene-d8	60.36	0	60.28	0	100	77.6	119	0	0	0	

Sample ID: **1005M42-005AMSD** Client ID: Units: **ug/Kg-dry** Prep Date: **06/03/2010** Run No: **173224**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130407** Analysis Date: **06/03/2010** Seq No: **3601210**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	74.58	6.0	60.28	0	124	60.6	160	67.49	9.98	30.9	
Benzene	68.56	6.0	60.28	0	114	64	142	71.67	4.44	22.5	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 7-Jun-10

Client: Winter Environmental
Project Name: Fashion Care
Workorder: 1005N93

ANALYTICAL QC SUMMARY REPORT

BatchID: 130407

Sample ID: **1005M42-005AMSD** Client ID: Units: **ug/Kg-dry** Prep Date: **06/03/2010** Run No: **173224**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **130407** Analysis Date: **06/03/2010** Seq No: **3601210**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	63.39	6.0	60.28	0	105	70.6	140	68.02	7.05	21.9	
Toluene	67.22	6.0	60.28	0	112	61.6	143	66.03	1.79	25.8	
Trichloroethene	66.43	6.0	60.28	0	110	70.3	147	67.17	1.12	28	
Surr: 4-Bromofluorobenzene	60.48	0	60.28	0	100	58.2	140	62.07	0	0	
Surr: Dibromofluoromethane	62.56	0	60.28	0	104	71.1	132	66.70	0	0	
Surr: Toluene-d8	63.02	0	60.28	0	105	77.6	119	60.36	0	0	

Qualifiers:

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

Analytical Report 311894

for

Winter Environmental

Project Manager: Len Diprima

Fashion Care

08096

15-SEP-08

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Texas certification numbers:
Houston, TX T104704215 - Odessa/Midland, TX T104704215-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

15-SEP-08

Project Manager: **Len Diprima**
Winter Environmental
3350 Green Pointe Parkway
Norcross, GA 30092

Reference: XENCO Report No: **311894**
Fashion Care
Project Address: GA

Len Diprima:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 311894. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 311894 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

David C. Fuller
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FMW-4	S	Sep-04-08 10:15	0 - 2 ft	311894-001
FMW-4	S	Sep-04-08 10:25	4 - 8 ft	311894-002
FMW-4	S	Sep-04-08 10:35	11 - 13 ft	311894-003
SB-27	S	Sep-04-08 11:30	0 - 2 ft	311894-004
FMW-6	W	Sep-05-08 13:05		311894-005
FMW-5	W	Sep-05-08 14:45		311894-006
DUP30108	W	Sep-05-08 00:00		311894-007
TBLK30108	W	Sep-05-08 00:00		311894-008

Certificate of Analytical Results 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-4**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **311894-001**	Date Collected: **Sep-04-08 10:15**	Date Received: **Sep-05-08 16:05**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5035

Date Analyzed: Sep-10-08 15:29 Analyst: 4124 Date Prep: Sep-10-08 06:39 Tech: 4124

Seq Number: 733833

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	2.7	0.43	ug/kg	U	1
1,1-Dichloroethene	75-35-4	U	2.7	0.62	ug/kg	U	1
Acetone	67-64-1	39	27	3.6	ug/kg		1
Benzene	71-43-2	1.6	0.53	0.27	ug/kg		1
cis-1,2-Dichloroethene	156-59-2	41	2.7	0.35	ug/kg		1
Cyclohexane	110-82-7	U	2.7	0.50	ug/kg	U	1
Ethylbenzene	100-41-4	U	0.53	0.30	ug/kg	U	1
Isopropylbenzene	98-82-8	U	2.7	0.40	ug/kg	U	1
Tetrachloroethene	127-18-4	8.7	2.7	0.55	ug/kg		1
Toluene	108-88-3	U	0.53	0.31	ug/kg	U	1
trans-1,2-Dichloroethene	156-60-5	U	2.7	0.41	ug/kg	U	1
Trichloroethene	79-01-6	7.5	2.7	0.37	ug/kg		1
Vinyl chloride	75-01-4	8.0	2.7	1.1	ug/kg		1
m,p-Xylenes	179601-23-1	U	1.1	0.64	ug/kg	U	1
o-Xylene	95-47-6	U	0.53	0.38	ug/kg	U	1
Xylenes, Total	1330-20-7	U			ug/kg	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-4**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **311894-002**	Date Collected: **Sep-04-08 10:25**	Date Received: **Sep-05-08 16:05**
Sample Depth: **4 - 8 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5035

Date Analyzed: Sep-10-08 15:59 Analyst: 4124 Date Prep: Sep-10-08 06:39 Tech: 4124

Seq Number: 733833

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	3.5	0.56	ug/kg	U	1
1,1-Dichloroethene	75-35-4	U	3.5	0.80	ug/kg	U	1
Acetone	67-64-1	U	35	4.8	ug/kg	U	1
Benzene	71-43-2	8.3	0.69	0.36	ug/kg		1
cis-1,2-Dichloroethene	156-59-2	120	3.5	0.46	ug/kg		1
Cyclohexane	110-82-7	U	3.5	0.65	ug/kg	U	1
Ethylbenzene	100-41-4	1.0	0.69	0.39	ug/kg		1
Isopropylbenzene	98-82-8	U	3.5	0.53	ug/kg	U	1
Tetrachloroethene	127-18-4	U	3.5	0.72	ug/kg	U	1
Toluene	108-88-3	5.6	0.69	0.41	ug/kg		1
trans-1,2-Dichloroethene	156-60-5	U	3.5	0.54	ug/kg	U	1
Trichloroethene	79-01-6	U	3.5	0.49	ug/kg	U	1
Vinyl chloride	75-01-4	16	3.5	1.4	ug/kg		1
m,p-Xylenes	179601-23-1	2.2	1.4	0.84	ug/kg		1
o-Xylene	95-47-6	1.7	0.69	0.50	ug/kg		1
Xylenes, Total	1330-20-7	3.9			ug/kg		1

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Fashion Care

Sample Id: **FMW-4**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **311894-003**	Date Collected: **Sep-04-08 10:35**	Date Received: **Sep-05-08 16:05**
Sample Depth: **11 - 13 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-11-08 22:07 Analyst: 4124 Date Prep: Sep-11-08 16:33 Tech: 4124

Seq Number: 734040

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	150	24	ug/kg	U	30
1,1-Dichloroethene	75-35-4	U	150	35	ug/kg	U	30
Acetone	67-64-1	U	1500	210	ug/kg	U	30
Benzene	71-43-2	750	30	15	ug/kg		30
cis-1,2-Dichloroethene	156-59-2	1700	150	20	ug/kg		30
Cyclohexane	110-82-7	U	150	28	ug/kg	U	30
Ethylbenzene	100-41-4	330	30	17	ug/kg		30
Isopropylbenzene	98-82-8	U	150	23	ug/kg	U	30
Tetrachloroethene	127-18-4	50	150	31	ug/kg	J	30
Toluene	108-88-3	1500	30	18	ug/kg		30
trans-1,2-Dichloroethene	156-60-5	U	150	23	ug/kg	U	30
Trichloroethene	79-01-6	U	150	21	ug/kg	U	30
Vinyl chloride	75-01-4	96	150	61	ug/kg	J	30
m,p-Xylenes	179601-23-1	730	60	36	ug/kg		30
o-Xylene	95-47-6	420	30	22	ug/kg		30
Xylenes, Total	1330-20-7	1150			ug/kg		30

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Sample Id: **SB-27**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **311894-004**	Date Collected: **Sep-04-08 11:30**	Date Received: **Sep-05-08 16:05**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5035

Date Analyzed: Sep-11-08 13:05 Analyst: 4124 Date Prep: Sep-11-08 07:05 Tech: 4124

Seq Number: 734010

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	2.6	0.42	ug/kg	U	1
1,1-Dichloroethene	75-35-4	U	2.6	0.61	ug/kg	U	1
Acetone	67-64-1	170	26	3.6	ug/kg		1
Benzene	71-43-2	U	0.52	0.27	ug/kg	U	1
cis-1,2-Dichloroethene	156-59-2	68	130	18	ug/kg	J	27
Cyclohexane	110-82-7	U	2.6	0.50	ug/kg	U	1
Ethylbenzene	100-41-4	U	0.52	0.30	ug/kg	U	1
Isopropylbenzene	98-82-8	U	2.6	0.40	ug/kg	U	1
Tetrachloroethene	127-18-4	18000	1300	280	ug/kg	D	268
Toluene	108-88-3	2.6	0.52	0.31	ug/kg		1
trans-1,2-Dichloroethene	156-60-5	U	2.6	0.41	ug/kg	U	1
Trichloroethene	79-01-6	120	130	19	ug/kg	J	27
Vinyl chloride	75-01-4	U	2.6	1.1	ug/kg	U	1
m,p-Xylenes	179601-23-1	U	1.0	0.63	ug/kg	U	1
o-Xylene	95-47-6	U	0.52	0.38	ug/kg	U	1
Xylenes, Total	1330-20-7	U			ug/kg		1

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Fashion Care

Sample Id: **FMW-6** Matrix: **WATER** % Moisture:
Lab Sample Id: **311894-005** Date Collected: **Sep-05-08 13:05** Date Received: **Sep-05-08 16:05**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-10-08 17:00 Analyst: 4154 Date Prep: Sep-05-08 17:00 Tech: 4154
Seq Number: 733806

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		1.60	2.00	1.50	mg/L	J	1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-08-08 08:45 Analyst: 4099 Date Prep: Tech: 4099
Seq Number: 733491

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		U	10	5.3	mg/L	U	1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 14:35 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	U	0.100	0.017	mg/L	U	1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-11-08 13:15 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 733952

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	4.8	1.0	0.062	mg/L		1
Sulfate	14808-79-8	3.1	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-09-08 15:12 Analyst: RCH Date Prep: Sep-08-08 11:15 Tech: ABA
Seq Number: 733658

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.017	0.010	0.004	mg/L	B	1
Barium	7440-39-3	0.096	0.050	0.001	mg/L		1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	U	0.050	0.002	mg/L	U	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	0.004	0.010	0.003	mg/L	J	1
Sodium	7440-23-5	9.95	5.00	0.702	mg/L		1

Project: Xenco-Atlanta Master Project

Version: 1.017

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-6** Matrix: **WATER** % Moisture:
Lab Sample Id: **311894-005** Date Collected: **Sep-05-08 13:05** Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-11-08 17:05 Analyst: NTR Date Prep: Sep-11-08 08:28 Tech: 4148
Seq Number: 734038

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	1.8	1.0	0.16	ug/L		1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	180	1.0	0.21	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	260	2.0	0.18	ug/L		1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

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Sample Id: **FMW-6** Matrix: **WATER** % Moisture:
Lab Sample Id: **311894-005** Date Collected: **Sep-05-08 13:05** Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-11-08 17:05 Analyst: NTR Date Prep: Sep-11-08 08:28 Tech: 4148
Seq Number: 734038

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	1100	50	8.0	ug/L	D	50
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	3.6	1.0	0.21	ug/L		1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	56	1.0	0.19	ug/L		1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L		1

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Sample Id: **FMW-5** Matrix: **WATER** % Moisture:
Lab Sample Id: **311894-006** Date Collected: **Sep-05-08 14:45** Date Received: **Sep-05-08 16:05**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-10-08 17:00 Analyst: 4154 Date Prep: Sep-05-08 17:00 Tech: 4154
Seq Number: 733806

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		1.97	2.00	1.50	mg/L	J	1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-08-08 08:45 Analyst: 4099 Date Prep: Tech: 4099
Seq Number: 733491

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		9.5	10	5.3	mg/L	J	1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 14:42 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	4.91	0.100	0.017	mg/L		1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-11-08 14:25 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 733952

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	5.9	1.0	0.062	mg/L		1
Sulfate	14808-79-8	2.8	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-09-08 15:14 Analyst: RCH Date Prep: Sep-08-08 11:15 Tech: ABA
Seq Number: 733658

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.007	0.010	0.004	mg/L	JB	1
Barium	7440-39-3	0.065	0.050	0.001	mg/L		1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	U	0.050	0.002	mg/L	U	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	10.4	5.00	0.702	mg/L		1

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Fashion Care

Sample Id: **FMW-5**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **311894-006**	Date Collected: **Sep-05-08 14:45**	Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-11-08 18:38 Analyst: NTR Date Prep: Sep-11-08 08:28 Tech: 4148

Seq Number: 734038

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	1.8	1.0	0.16	ug/L		1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	100	1.0	0.21	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	22	2.0	0.18	ug/L		1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-5**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **311894-006**	Date Collected: **Sep-05-08 14:45**	Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-11-08 18:38 Analyst: NTR Date Prep: Sep-11-08 08:28 Tech: 4148

Seq Number: 734038

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	4700	100	16	ug/L	D	100
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	100	1.0	0.19	ug/L		1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L		1

Project: Xenco-Atlanta Master Project

Version: 1.017

Certificate of Analytical Results 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **DUP30108**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **311894-007**	Date Collected: **Sep-05-08 00:00**	Date Received: **Sep-05-08 16:05**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-10-08 17:00 Analyst: 4154 Date Prep: Sep-05-08 17:00 Tech: 4154
Seq Number: 733806

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		1.70	2.00	1.50	mg/L	J	1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-08-08 08:45 Analyst: 4099 Date Prep: Tech: 4099
Seq Number: 733491

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		U	10	5.3	mg/L	U	1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 14:48 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	U	0.100	0.017	mg/L	U	1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-11-08 14:42 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 733952

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	4.8	1.0	0.062	mg/L		1
Sulfate	14808-79-8	3.0	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-09-08 15:15 Analyst: RCH Date Prep: Sep-08-08 11:15 Tech: ABA
Seq Number: 733658

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.004	mg/L	U	1
Barium	7440-39-3	0.097	0.050	0.001	mg/L		1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	U	0.050	0.002	mg/L	U	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	9.95	5.00	0.702	mg/L		1

Project: Xenco-Atlanta Master Project

Version: 1.017

Certificate of Analytical Results 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **DUP30108**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **311894-007**	Date Collected: **Sep-05-08 00:00**	Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-12-08 14:07 Analyst: 4124 Date Prep: Sep-12-08 06:30 Tech: 4124

Seq Number: 734083

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	2.8	1.0	0.18	ug/L		1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	1.6	1.0	0.16	ug/L		1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	180	1.0	0.21	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	260	2.0	0.18	ug/L		1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.017

Certificate of Analytical Results 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **DUP30108**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **311894-007**	Date Collected: **Sep-05-08 00:00**	Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-12-08 14:07 Analyst: 4124 Date Prep: Sep-12-08 06:30 Tech: 4124

Seq Number: 734083

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	2200	100	16	ug/L	D	100
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	3.9	1.0	0.21	ug/L		1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	50	1.0	0.19	ug/L		1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L		1

Project: Xenco-Atlanta Master Project

Version: 1.017

Certificate of Analytical Results 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **TBLK30108**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **311894-008**	Date Collected: **Sep-05-08 00:00**	Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-11-08 16:36 Analyst: NTR Date Prep: Sep-11-08 08:28 Tech: 4148

Seq Number: 734038

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	U	1.0	0.16	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.0	0.21	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.0	0.18	ug/L	U	1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.017

Certificate of Analytical Results 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **TBLK30108** Matrix: **WATER** % Moisture:
Lab Sample Id: **311894-008** Date Collected: **Sep-05-08 00:00** Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-11-08 16:36 Analyst: NTR Date Prep: Sep-11-08 08:28 Tech: 4148
Seq Number: 734038

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.0	0.16	ug/L	U	1
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	U	1.0	0.19	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.017

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

* Outside XENCO'S scope of NELAC Accreditation

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 733833 **Sample:** 311694-002 S / MS **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	46	50	92	53-135	
4-Bromofluorobenzene	61	50	122	53-175	
Toluene-D8	55	50	110	56-126	

Lab Batch #: 733833 **Sample:** 311694-002 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47	50	94	53-135	
4-Bromofluorobenzene	58	50	116	53-175	
Toluene-D8	56	50	112	56-126	

Lab Batch #: 733833 **Sample:** 311894-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	56	50	112	53-135	
4-Bromofluorobenzene	56	50	112	53-175	
Toluene-D8	51	50	102	56-126	

Lab Batch #: 733833 **Sample:** 311894-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54	50	108	53-135	
4-Bromofluorobenzene	53	50	106	53-175	
Toluene-D8	50	50	100	56-126	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 733833 **Sample:** 515472-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48	50	96	53-135	
4-Bromofluorobenzene	50	50	100	53-175	
Toluene-D8	50	50	100	56-126	

Lab Batch #: 733833 **Sample:** 515472-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	53-135	
4-Bromofluorobenzene	50	50	100	53-175	
Toluene-D8	51	50	102	56-126	

Lab Batch #: 734010 **Sample:** 311830-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47	50	94	53-135	
4-Bromofluorobenzene	57	50	114	53-175	
Toluene-D8	53	50	106	56-126	

Lab Batch #: 734010 **Sample:** 311830-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51	50	102	53-135	
4-Bromofluorobenzene	60	50	120	53-175	
Toluene-D8	53	50	106	56-126	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 734010 **Sample:** 311894-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58	50	116	53-135	
4-Bromofluorobenzene	56	50	112	53-175	
Toluene-D8	52	50	104	56-126	

Lab Batch #: 734010 **Sample:** 515560-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47	50	94	53-135	
4-Bromofluorobenzene	50	50	100	53-175	
Toluene-D8	51	50	102	56-126	

Lab Batch #: 734010 **Sample:** 515560-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52	50	104	53-135	
4-Bromofluorobenzene	52	50	104	53-175	
Toluene-D8	51	50	102	56-126	

Lab Batch #: 734040 **Sample:** 311894-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51	50	102	53-135	
4-Bromofluorobenzene	51	50	102	53-175	
Toluene-D8	50	50	100	56-126	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 734040 **Sample:** 311894-004 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51	50	102	53-135	
4-Bromofluorobenzene	50	50	100	53-175	
Toluene-D8	51	50	102	56-126	

Lab Batch #: 734040 **Sample:** 515580-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47	50	94	53-135	
4-Bromofluorobenzene	50	50	100	53-175	
Toluene-D8	50	50	100	56-126	

Lab Batch #: 734040 **Sample:** 515580-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	53-135	
4-Bromofluorobenzene	51	50	102	53-175	
Toluene-D8	50	50	100	56-126	

Lab Batch #: 734089 **Sample:** 311894-004 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	53-135	
4-Bromofluorobenzene	50	50	100	53-175	
Toluene-D8	49	50	98	56-126	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 734089 **Sample:** 515609-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	44	50	88	53-135	
4-Bromofluorobenzene	51	50	102	53-175	
Toluene-D8	50	50	100	56-126	

Lab Batch #: 734089 **Sample:** 515609-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	53-135	
4-Bromofluorobenzene	50	50	100	53-175	
Toluene-D8	49	50	98	56-126	

Lab Batch #: 734038 **Sample:** 311894-005 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51.91	50.00	104	53-159	
4-Bromofluorobenzene	59.53	50.00	119	30-186	
Toluene-D8	37.65	50.00	75	70-130	

Lab Batch #: 734038 **Sample:** 311894-005 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52.66	50.00	105	53-159	
4-Bromofluorobenzene	56.63	50.00	113	30-186	
Toluene-D8	38.19	50.00	76	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 734038 **Sample:** 311894-006 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49.56	50.00	99	53-159	
4-Bromofluorobenzene	56.50	50.00	113	30-186	
Toluene-D8	38.45	50.00	77	70-130	

Lab Batch #: 734038 **Sample:** 311894-008 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54.96	50.00	110	53-159	
4-Bromofluorobenzene	57.33	50.00	115	30-186	
Toluene-D8	39.28	50.00	79	70-130	

Lab Batch #: 734038 **Sample:** 311895-005 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	56.72	50.00	113	53-159	
4-Bromofluorobenzene	50.73	50.00	101	30-186	
Toluene-D8	33.27	50.00	67	70-130	**

Lab Batch #: 734038 **Sample:** 311895-005 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	55.00	50.00	110	53-159	
4-Bromofluorobenzene	50.46	50.00	101	30-186	
Toluene-D8	33.93	50.00	68	70-130	**

** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 734038 **Sample:** 515578-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54.84	50.00	110	53-159	
4-Bromofluorobenzene	47.93	50.00	96	30-186	
Toluene-D8	53.66	50.00	107	70-130	

Lab Batch #: 734038 **Sample:** 515578-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	56.64	50.00	113	53-159	
4-Bromofluorobenzene	54.56	50.00	109	30-186	
Toluene-D8	63.62	50.00	127	70-130	

Lab Batch #: 734083 **Sample:** 311894-006 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53.07	50.00	106	53-159	
4-Bromofluorobenzene	50.31	50.00	101	30-186	
Toluene-D8	49.61	50.00	99	77-124	

Lab Batch #: 734083 **Sample:** 311894-007 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53.32	50.00	107	53-159	
4-Bromofluorobenzene	50.29	50.00	101	30-186	
Toluene-D8	49.09	50.00	98	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 734083 **Sample:** 311894-007 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52.74	50.00	105	53-159	
4-Bromofluorobenzene	50.29	50.00	101	30-186	
Toluene-D8	50.72	50.00	101	77-124	

Lab Batch #: 734083 **Sample:** 311895-006 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47.10	50.00	94	53-159	
4-Bromofluorobenzene	50.32	50.00	101	30-186	
Toluene-D8	49.43	50.00	99	77-124	

Lab Batch #: 734083 **Sample:** 311895-006 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47.81	50.00	96	53-159	
4-Bromofluorobenzene	50.59	50.00	101	30-186	
Toluene-D8	49.49	50.00	99	77-124	

Lab Batch #: 734083 **Sample:** 515602-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	43.58	50.00	87	53-159	
4-Bromofluorobenzene	50.86	50.00	102	30-186	
Toluene-D8	50.33	50.00	101	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 734083 **Sample:** 515602-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50.23	50.00	100	53-159	
4-Bromofluorobenzene	50.13	50.00	100	30-186	
Toluene-D8	49.40	50.00	99	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 311894 **Project ID:** 08096

Lab Batch #: 733833 **Sample:** 515472-1-BKS **Matrix:** Solid
Date Analyzed: 09/10/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4124
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<5.0	50	56	112	35-170	
Benzene	<1.0	50	49	98	52-144	
Toluene	<1.0	50	50	100	51-137	
Trichloroethene	<5.0	50	50	100	50-150	

Lab Batch #: 734010 **Sample:** 515560-1-BKS **Matrix:** Solid
Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** 4124
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<5.0	50	60	120	35-170	
Benzene	<1.0	50	51	102	52-144	
Toluene	<1.0	50	52	104	51-137	
Trichloroethene	<5.0	50	49	98	50-150	

Lab Batch #: 734040 **Sample:** 515580-1-BKS **Matrix:** Solid
Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** 4124
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<250	2500	2400	96	35-170	
Benzene	<50	2500	2400	96	52-144	
Toluene	<50	2500	2400	96	51-137	
Trichloroethene	<250	2500	2200	88	50-150	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 311894 **Project ID:** 08096

Lab Batch #: 734089 **Sample:** 515609-1-BKS **Matrix:** Solid
Date Analyzed: 09/12/2008 **Date Prepared:** 09/12/2008 **Analyst:** 4124
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<250	2500	2200	88	35-170	
Benzene	<50	2500	2200	88	52-144	
Toluene	<50	2500	2100	84	51-137	
Trichloroethene	<250	2500	2100	84	50-150	

Lab Batch #: 734038 **Sample:** 515578-1-BKS **Matrix:** Water
Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** NTR
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

TCL VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.0	50	51	102	70-130	
Benzene	<1.0	50	50	100	80-120	
Chlorobenzene	<1.0	50	45	90	80-120	
Toluene	<1.0	50	51	102	75-120	
Trichloroethene	<1.0	50	47	94	70-125	

Lab Batch #: 734083 **Sample:** 515602-1-BKS **Matrix:** Water
Date Analyzed: 09/12/2008 **Date Prepared:** 09/12/2008 **Analyst:** 4124
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

TCL VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.0	50	43	86	70-130	
Benzene	<1.0	50	44	88	80-120	
Chlorobenzene	<1.0	50	43	86	80-120	
Toluene	<1.0	50	43	86	75-120	
Trichloroethene	<1.0	50	41	82	70-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 311894 **Project ID:** 08096

Analyst: 4154 **Date Prepared:** 09/05/2008 **Date Analyzed:** 09/10/2008

Lab Batch ID: 733806 **Sample:** 515460-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BOD by SM5210B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	<2.00	200	198	99	200	199	100	1	70-120	20	

Analyst: 4099 **Date Prepared:** 09/08/2008 **Date Analyzed:** 09/08/2008

Lab Batch ID: 733491 **Sample:** 733491-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chemical Oxygen Demand by SM 5220D Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	<10	200	210	105	200	200	100	5	71-128	20	

Analyst: 4150 **Date Prepared:** 09/10/2008 **Date Analyzed:** 09/11/2008

Lab Batch ID: 733922 **Sample:** 515438-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	0.023	11.0	9.70	88	11	9.73	88	0	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 311894 **Project ID:** 08096

Analyst: SNL **Date Prepared:** 09/11/2008 **Date Analyzed:** 09/11/2008

Lab Batch ID: 733952 **Sample:** 733952-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by SW-846 9056 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<1.0	10	9.1	91	10	9.2	92	1	70-125	20	
Sulfate	<1.0	10	9.1	91	10	9.1	91	0	70-125	20	

Analyst: RCH **Date Prepared:** 09/08/2008 **Date Analyzed:** 09/09/2008

Lab Batch ID: 733658 **Sample:** 515260-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Metals, Total by SW846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.004	1.00	1.01	101	1	0.945	95	7	75-125	20	
Barium	<0.050	1.00	1.04	104	1	0.965	97	7	75-125	20	
Cadmium	<0.005	1.00	1.05	105	1	0.978	98	7	75-125	20	
Chromium	<0.050	1.00	1.06	106	1	0.988	99	7	75-125	20	
Copper	<0.050	1.00	1.05	105	1	0.980	98	7	75-125	20	
Lead	<0.010	1.00	1.04	104	1	0.967	97	7	75-125	20	
Selenium	<0.010	1.00	1.03	103	1	0.974	97	6	75-125	20	
Sodium	<5.00	9.00	11.0	122	9	10.0	111	10	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 311894 **Project ID:** 08096

Lab Batch ID: 733491 **QC- Sample ID:** 311607-001 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 09/08/2008 **Date Prepared:** 09/08/2008 **Analyst:** 4099
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chemical Oxygen Demand by SM 5220D Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	100	200	320	110	200	310	105	5	71-128	20	

Lab Batch ID: 733922 **QC- Sample ID:** 311894-005 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	11.0	9.93	90	11.0	10.6	96	6	75-125	20	

Lab Batch ID: 733952 **QC- Sample ID:** 311894-005 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** SNL
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by SW-846 9056 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	4.8	10	14	92	10	14	92	0	70-125	20	
Sulfate	3.1	10	12	89	10	12	89	0	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 311894 **Project ID:** 08096

Lab Batch ID: 733658 **QC- Sample ID:** 311892-002 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/09/2008 **Date Prepared:** 09/08/2008 **Analyst:** RCH

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Metals, Total by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.010	1.00	1.02	102	1.00	1.02	102	0	75-125	20	
Barium	0.014	1.00	1.05	104	1.00	1.04	103	1	75-125	20	
Cadmium	<0.005	1.00	1.05	105	1.00	1.04	104	1	75-125	20	
Chromium	0.078	1.00	1.12	104	1.00	1.13	105	1	75-125	20	
Copper	0.009	1.00	1.05	104	1.00	1.05	104	0	75-125	20	
Lead	0.004	1.00	1.03	103	1.00	1.02	102	1	75-125	20	
Selenium	<0.010	1.00	1.02	102	1.00	1.03	103	1	75-125	20	
Sodium	7.84	9.00	16.6	97	9.00	16.8	100	3	75-125	20	

Lab Batch ID: 733833 **QC- Sample ID:** 311694-002 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 09/10/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4124

Reporting Units: ug/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<2.9	52	46	88	43	37	86	2	35-170	20	
Benzene	<2.9	52	38	73	43	29	67	9	38-158	20	
Toluene	<2.9	52	35	67	43	26	60	11	50-150	20	
Trichloroethene	<2.9	52	31	60	43	24	56	7	50-150	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 311894 **Project ID:** 08096

Lab Batch ID: 734010 **QC- Sample ID:** 311830-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** 4124

Reporting Units: ug/kg

Select VOCs by SW-846 8260B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<3.8	44	58	132	43	46	107	21	35-170	20	F
Benzene	<0.77	44	47	107	43	38	88	19	38-158	20	
Toluene	<0.77	44	49	111	43	39	91	20	50-150	20	
Trichloroethene	<3.8	44	45	102	43	37	86	17	50-150	20	

Lab Batch ID: 734038 **QC- Sample ID:** 311895-005 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** NTR

Reporting Units: ug/L

TCL VOCs by SW-846 8260B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<1.0	50	54	108	50	52	104	4	70-130	20	
Benzene	<1.0	50	45	90	50	49	98	9	80-120	20	
Chlorobenzene	<1.0	50	46	92	50	48	96	4	80-120	20	
Toluene	<1.0	50	34	68	50	35	70	3	75-120	20	X
Trichloroethene	<1.0	50	47	94	50	48	96	2	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 311894 **Project ID:** 08096

Lab Batch ID: 734083 **QC- Sample ID:** 311895-006 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/12/2008 **Date Prepared:** 09/12/2008 **Analyst:** 4124

Reporting Units: ug/L

TCL VOCs by SW-846 8260B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<1.0	50	48	96	50	47	94	2	70-130	20	
Benzene	<1.0	50	46	92	50	46	92	0	80-120	20	
Chlorobenzene	<1.0	50	47	94	50	45	90	4	80-120	20	
Toluene	<1.0	50	46	92	50	45	90	2	75-120	20	
Trichloroethene	<1.0	50	44	88	50	44	88	0	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 311894

Lab Batch #: 733806 **Project ID:** 08096
Date Analyzed: 09/10/2008 **Date Prepared:** 09/05/2008 **Analyst:** 4154
QC- Sample ID: 311792-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

BOD by SM5210B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	<2.00	<2.00	NC	20	

Lab Batch #: 733491
Date Analyzed: 09/08/2008 **Date Prepared:** 09/08/2008 **Analyst:** 4099
QC- Sample ID: 311607-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Chemical Oxygen Demand by SM 5220D Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	100	110	10	20	

Lab Batch #: 733922
Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150
QC- Sample ID: 311894-005 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Dissolved Metals by SW-846 6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	<0.100	NC	20	

Lab Batch #: 733952
Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** SNL
QC- Sample ID: 311894-005 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Inorganic Anions by SW-846 9056 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	4.8	4.8	0	20	
Sulfate	3.1	3.1	0	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 311894

Lab Batch #: 733952 **Project ID:** 08096
Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** SNL
QC- Sample ID: 312278-002 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Inorganic Anions by SW-846 9056 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	3.4	3.5	3	20	
Sulfate	<1.0	<1.0	NC	20	

Lab Batch #: 733658
Date Analyzed: 09/09/2008 **Date Prepared:** 09/08/2008 **Analyst:** RCH
QC- Sample ID: 311892-002 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Metals, Total by SW846 6010B Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Arsenic	<0.010	<0.010	NC	20	
Barium	0.014	<0.050	NC	20	
Cadmium	<0.005	<0.005	NC	20	
Chromium	0.078	0.078	0	20	
Copper	0.009	<0.050	NC	20	
Lead	0.004	<0.010	NC	20	
Selenium	<0.010	<0.010	NC	20	
Sodium	7.84	7.24	8	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

XENCO Laboratories

☐ 5757 N.W. 158th Street, Miami Lakes, Fl 33014 305-823-8500
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☐ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

☐ Philadephia/New Jersey 610-955-5649

Serial #: 219056 Page 1 of 1

Company-City: Winter Environmental Norcross **Phone:**

Lab Only: WO# 311894

Proj Name-Location: Fashion Care ☐ Previously done at XENCO **Project ID:** 08096

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Proj State: AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, TX, UT Other **Proj. Manager (PM):** Len Diprima

Fax Results to ☐ PM or **e-mail to:** LDiprima@WinterEnvironmental.com **Fax No:**

Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O Bill to:

Quote/Pricing: **P.O No:** ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA

QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

LPST No.:

Sampler Name: Joe King Signature: Joe D King

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs BTEX-MTBE VOHs VOAs PP TCL Appdx 1 Appdx 2	Method: 8260 8021 624 524	PAHs: 8270 8100 8310 8270_SIM	TRPH by FL PRO DRO GRO MA EPH MA VPH	SVOCs: 8270 625 - (BN&AE) (TCL) (PP) (Appdx 2)	Pest. (8081 / 608) PCBs (8082 / 608) Herb. (8151 / 615)	EDB / DBCP (8011 / 504)	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	Metals Methods: 6020 / 6010 / 200.8 / 7470 / 7471	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	FL Preburn: Virgin Non-Virgin	Anions, BOD Diss. Iron COD						TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Sample Clean-ups are pre-approved as needed	Remarks: See Analysis list w/COC		Addn: Date Rcv by: From:	
1	FMW-4	9-4-08	1015	0-2'	S		X	4	V2	C	L	X											X	X	X									X			1
2	FMW-4	9-4-08	1025	4-8'	S		X	4	V2	C	L	X																						X			2
3	FMW-4	9-4-08	1035	11-13'	S		X	4	V2	C	L	X																						X			3
4	SB-27	9-4-08	1130	0-2'	S		X	4	V2	C	L	X																						X			4
5	FMW-6	9-5-08	1305	—	W		X	6			L	X								X			X	X	X									X			5
6	FMW-5	9-5-08	1445	—	W		X	6			L	X								X			X	X	X									X			6
7	DUP30108	9-5-08		—	W		X	6			L	X								X			X	X	X									X			7
8	TBLK30108	9-5-08		—	W		X	2	V	C	L	X																									8
9																																					9
10																																					10

	Relinquished by (Initials and Sign)		Date & Time		Relinquished to (Initials and Sign)		Date & Time
1	1) Joe D King	JDK	9-5-08	1605	2) [signature]		9/5/08 1605
2	3)				4)		
3	5)				6)		

Total Containers per COC: Cooler Temp: 4 °C

All XENCO Standard Terms and Conditions Apply.

Rush Charges are Pre-Approved upon Requesting them.

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O) _____

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tedlar Bag (B), Wipe (W), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Other (O) _____

Matrix: Air (A), Product (P), Solid(S), Water (W)

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Winter

Date/ Time: 9/5/08 1605

Lab ID # : 311894

Initials: JM

Sample Receipt Checklist

#1	Temperature of cooler?				4°C
#2	Shipping container in good condition?	YES	No	None	
#3	Samples received on ice?	YES	No	N/A	Blue/Water
#4	Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	N/A	
#6	Chain of Custody present?	YES	No		
#7	Sample instructions complete of Chain of Custody?	YES	No		
#8	Any missing/extra samples?	Yes	NO		
#9	Chain of Custody signed when relinquished/ received?	YES	No		
#10	Chain of Custody agrees with sample label(s)?	YES	No		
#11	Container label(s) legible and intact?	YES	No		
#12	Sample matrix/ properties agree with Chain of Custody?	YES	No		
#13	Samples in proper container/ bottle?	YES	No		
#14	Samples properly preserved?	YES	No	N/A	
#15	Sample container(s) intact?	YES	No		
#16	Sufficient sample amount for indicated test(s)?	YES	No		
#17	All samples received within sufficient hold time?	YES	No		
#18	Subcontract of sample(s)?	Yes	NO		
#19	VOC samples have zero headspace?	YES	No	N/A	

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Laboratory Analysis List
Fashion Care/Executive Care Site
Winter Environmental Project No. 08096

- VOCs (soil):
  - Tetrachloroethene (PCE)
  - cis-1, 2-Dichloroethene
  - trans-1, 2-Dichloroethene
  - 1, 1-Dichloroethene (1,1-DCE)
  - Trichloroethene (TCE)
  - Vinyl Chloride (VC)
  - Benzene
  - Toluene
  - Ethylbenzene
  - Total Xylenes
  - Cyclohexane
  - Isopropylbenzene
  - 1, 1-Dichloroethane
  - Acetone
- VOCs (groundwater/surface water): TCL List plus 1,4-dioxane
- Metals (groundwater/surface water):
  - arsenic
  - barium
  - lead
  - selenium
  - cadmium
  - chromium
  - copper
- BOD & COD (groundwater/surface water)
- Anions (groundwater/surface water): sodium, chlorides, SO4

Analytical Report 332267

for

Winter Environmental

Project Manager: Len Diprima

Fashion Care

08096

20-MAY-09

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Texas certification numbers:
Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Miramar, FL E86349
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

20-MAY-09

Project Manager: **Len Diprima**
Winter Environmental
3350 Green Pointe Pkwy
Suite 200
Norcross, GA 30092

Reference: XENCO Report No: **332267**
Fashion Care
Project Address: Georgia

Len Diprima:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 332267. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 332267 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

David C. Fuller
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 332267

Winter Environmental, Norcross, GA

Fashion Care

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-28	S	May-08-09 10:10	0 - 2 ft	332267-001
SB-28	S	May-08-09 10:15	4 - 6 ft	332267-002
SB-28	S	May-08-09 10:20	8 - 10 ft	332267-003
SB-29	S	May-08-09 10:30	0 - 2 ft	332267-004
SB-29	S	May-08-09 10:40	4 - 6 ft	332267-005
SB-29	S	May-08-09 10:45	8 - 10 ft	332267-006
SB-30	S	May-08-09 12:20	0 - 2 ft	332267-007
SB-30	S	May-08-09 12:25	4.5 - 6.5 ft	332267-008
SB-30	S	May-08-09 12:30	8.5 - 10.5 ft	332267-009
SB-31	S	May-08-09 12:50	0 - 2 ft	332267-010
SB-31	S	May-08-09 12:55	4 - 6 ft	332267-011
SB-31	S	May-08-09 13:00	7.5 - 9.5 ft	332267-012
SB-32	S	May-08-09 13:15	0 - 2 ft	332267-013
SB-32	S	May-08-09 13:30	3.5 - 5.5 ft	332267-014
SB-32	S	May-08-09 13:45	6 - 8 ft	332267-015
SB-33	S	May-08-09 14:00	0 - 2 ft	332267-016
SB-33	S	May-08-09 14:15	4 - 6 ft	332267-017
SB-33	S	May-08-09 14:25	7 - 9 ft	332267-018

Certificate of Analytical Results 332267

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-28**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-001**	Date Collected: **May-08-09 10:10**	Date Received: **May-08-09 16:50**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-15-09 00:50 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	190	31	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	190	45	ug/kg	U	50
Acetone	67-64-1	U	1900	270	ug/kg	U	50
Benzene	71-43-2	U	190	20	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	500	190	26	ug/kg		50
Cyclohexane	110-82-7	U	190	37	ug/kg	U	50
Ethylbenzene	100-41-4	U	190	22	ug/kg	U	50
Isopropylbenzene	98-82-8	U	190	30	ug/kg	U	50
Tetrachloroethene	127-18-4	980	190	40	ug/kg		50
Toluene	108-88-3	U	190	23	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	190	30	ug/kg	U	50
Trichloroethene	79-01-6	200	190	27	ug/kg		50
m,p-Xylenes	179601-23-1	U	390	47	ug/kg	U	50
Vinyl chloride	75-01-4	U	190	78	ug/kg	U	50
o-Xylene	95-47-6	U	190	28	ug/kg	U	50
Xylenes, Total	1330-20-7	U	190	28	ug/kg	U	50

Project: Fashion Care

Version: 1.010

Certificate of Analytical Results 332267

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-28**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-002**	Date Collected: **May-08-09 10:15**	Date Received: **May-08-09 16:50**
Sample Depth: **4 - 6 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-15-09 00:21 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	190	31	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	190	45	ug/kg	U	50
Acetone	67-64-1	U	1900	270	ug/kg	U	50
Benzene	71-43-2	U	190	20	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	73000	5000	660	ug/kg	D	1000
Cyclohexane	110-82-7	U	190	37	ug/kg	U	50
Ethylbenzene	100-41-4	U	190	22	ug/kg	U	50
Isopropylbenzene	98-82-8	U	190	29	ug/kg	U	50
Tetrachloroethene	127-18-4	52000	5000	1000	ug/kg	D	1000
Toluene	108-88-3	U	190	23	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	830	190	30	ug/kg		50
Trichloroethene	79-01-6	15000	5000	710	ug/kg	D	1000
Vinyl chloride	75-01-4	U	190	78	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	390	47	ug/kg	U	50
o-Xylene	95-47-6	U	190	28	ug/kg	U	50
Xylenes, Total	1330-20-7	U	190	28	ug/kg	U	50

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Fashion Care

Sample Id: **SB-28**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-003**	Date Collected: **May-08-09 10:20**	Date Received: **May-08-09 16:50**
Sample Depth: **8 - 10 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-14-09 23:52 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	170	27	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	170	39	ug/kg	U	50
Acetone	67-64-1	U	1700	230	ug/kg	U	50
Benzene	71-43-2	U	170	17	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	10000	2500	330	ug/kg	D	500
Cyclohexane	110-82-7	U	170	31	ug/kg	U	50
Ethylbenzene	100-41-4	U	170	19	ug/kg	U	50
Isopropylbenzene	98-82-8	U	170	25	ug/kg	U	50
Tetrachloroethene	127-18-4	37000	2500	520	ug/kg	D	500
Toluene	108-88-3	U	170	20	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	64	170	26	ug/kg	J	50
Trichloroethene	79-01-6	4000	170	24	ug/kg		50
m,p-Xylenes	179601-23-1	46	330	40	ug/kg	J	50
Vinyl chloride	75-01-4	U	170	67	ug/kg	U	50
o-Xylene	95-47-6	U	170	24	ug/kg	U	50
Xylenes, Total	1330-20-7	46	170	24	ug/kg	J	50

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Fashion Care

Sample Id: **SB-29**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-004**	Date Collected: **May-08-09 10:30**	Date Received: **May-08-09 16:50**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5035

Date Analyzed: May-18-09 15:41 Analyst: ANI Date Prep: May-18-09 06:44 Tech: MHR

Seq Number: 759320

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	5.0	0.80	ug/kg	U	1
1,1-Dichloroethene	75-35-4	U	5.0	1.2	ug/kg	U	1
Acetone	67-64-1	520	50	6.9	ug/kg		1
Benzene	71-43-2	1.8	5.0	0.51	ug/kg	J	1
cis-1,2-Dichloroethene	156-59-2	14	5.0	0.66	ug/kg		1
Cyclohexane	110-82-7	U	5.0	0.95	ug/kg	U	1
Ethylbenzene	100-41-4	1.1	5.0	0.57	ug/kg	J	1
Isopropylbenzene	98-82-8	U	5.0	0.76	ug/kg	U	1
Tetrachloroethene	127-18-4	3.1	5.0	1.0	ug/kg	J	1
Toluene	108-88-3	4.9	5.0	0.59	ug/kg	J	1
trans-1,2-Dichloroethene	156-60-5	U	5.0	0.78	ug/kg	U	1
Trichloroethene	79-01-6	U	5.0	0.71	ug/kg	U	1
m,p-Xylenes	179601-23-1	U	10	1.2	ug/kg	U	1
Vinyl chloride	75-01-4	U	5.0	2.0	ug/kg	U	1
o-Xylene	95-47-6	U	5.0	0.72	ug/kg	U	1
Xylenes, Total	1330-20-7	U	5.0	0.72	ug/kg	U	1

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Fashion Care

Sample Id: **SB-29**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-005**	Date Collected: **May-08-09 10:40**	Date Received: **May-08-09 16:50**
Sample Depth: **4 - 6 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5035

Date Analyzed: May-18-09 16:09 Analyst: ANI Date Prep: May-18-09 06:44 Tech: MHR

Seq Number: 759320

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	5.0	0.80	ug/kg	U	1
1,1-Dichloroethene	75-35-4	U	5.0	1.2	ug/kg	U	1
Acetone	67-64-1	69	50	6.9	ug/kg		1
Benzene	71-43-2	4.6	5.0	0.51	ug/kg	J	1
cis-1,2-Dichloroethene	156-59-2	91	5.0	0.66	ug/kg		1
Cyclohexane	110-82-7	7.7	5.0	0.95	ug/kg		1
Ethylbenzene	100-41-4	1.9	5.0	0.57	ug/kg	J	1
Isopropylbenzene	98-82-8	U	5.0	0.76	ug/kg	U	1
Tetrachloroethene	127-18-4	22	5.0	1.0	ug/kg		1
Toluene	108-88-3	8.1	5.0	0.59	ug/kg		1
trans-1,2-Dichloroethene	156-60-5	1.6	5.0	0.78	ug/kg	J	1
Trichloroethene	79-01-6	2.1	5.0	0.71	ug/kg	J	1
Vinyl chloride	75-01-4	U	5.0	2.0	ug/kg	U	1
m,p-Xylenes	179601-23-1	U	10	1.2	ug/kg	U	1
o-Xylene	95-47-6	0.73	5.0	0.72	ug/kg	J	1
Xylenes, Total	1330-20-7	0.73	5.0	0.72	ug/kg	J	1

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Fashion Care

Sample Id: **SB-29**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-006**	Date Collected: **May-08-09 10:45**	Date Received: **May-08-09 16:50**
Sample Depth: **8 - 10 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5035

Date Analyzed: May-18-09 16:38 Analyst: ANI Date Prep: May-18-09 06:44 Tech: MHR

Seq Number: 759320

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	5.0	0.80	ug/kg	U	1
1,1-Dichloroethene	75-35-4	U	5.0	1.2	ug/kg	U	1
Acetone	67-64-1	45	50	6.9	ug/kg	J	1
Benzene	71-43-2	57	5.0	0.51	ug/kg		1
cis-1,2-Dichloroethene	156-59-2	290	170	22	ug/kg	D	50
Cyclohexane	110-82-7	21	5.0	0.95	ug/kg		1
Ethylbenzene	100-41-4	19	5.0	0.57	ug/kg		1
Isopropylbenzene	98-82-8	1.1	5.0	0.76	ug/kg	J	1
Tetrachloroethene	127-18-4	2.3	5.0	1.0	ug/kg	J	1
Toluene	108-88-3	37	5.0	0.59	ug/kg		1
trans-1,2-Dichloroethene	156-60-5	6.7	5.0	0.78	ug/kg		1
Trichloroethene	79-01-6	U	5.0	0.71	ug/kg	U	1
Vinyl chloride	75-01-4	67	5.0	2.0	ug/kg		1
m,p-Xylenes	179601-23-1	51	10	1.2	ug/kg		1
o-Xylene	95-47-6	19	5.0	0.72	ug/kg		1
Xylenes, Total	1330-20-7	70	5.0	0.72	ug/kg		1

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Sample Id: **SB-30**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-007**	Date Collected: **May-08-09 12:20**	Date Received: **May-08-09 16:50**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-14-09 21:56 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	200	32	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	200	46	ug/kg	U	50
Acetone	67-64-1	U	2000	270	ug/kg	U	50
Benzene	71-43-2	U	200	20	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	130	200	26	ug/kg	J	50
Cyclohexane	110-82-7	U	200	38	ug/kg	U	50
Ethylbenzene	100-41-4	U	200	22	ug/kg	U	50
Isopropylbenzene	98-82-8	U	200	30	ug/kg	U	50
Tetrachloroethene	127-18-4	2300	200	41	ug/kg		50
Toluene	108-88-3	U	200	23	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	200	31	ug/kg	U	50
Trichloroethene	79-01-6	160	200	28	ug/kg	J	50
Vinyl chloride	75-01-4	U	200	80	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	400	48	ug/kg	U	50
o-Xylene	95-47-6	U	200	28	ug/kg	U	50
Xylenes, Total	1330-20-7	U	200	28	ug/kg	U	50

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Fashion Care

Sample Id: **SB-30**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-008**	Date Collected: **May-08-09 12:25**	Date Received: **May-08-09 16:50**
Sample Depth: **4.5 - 6.5 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-14-09 21:26 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	180	29	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	180	42	ug/kg	U	50
Acetone	67-64-1	U	1800	250	ug/kg	U	50
Benzene	71-43-2	U	180	18	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	2800	180	24	ug/kg		50
Cyclohexane	110-82-7	U	180	34	ug/kg	U	50
Ethylbenzene	100-41-4	U	180	20	ug/kg	U	50
Isopropylbenzene	98-82-8	U	180	27	ug/kg	U	50
Tetrachloroethene	127-18-4	6700	1800	370	ug/kg	D	500
Toluene	108-88-3	U	180	21	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	180	28	ug/kg	U	50
Trichloroethene	79-01-6	3400	180	25	ug/kg		50
Vinyl chloride	75-01-4	U	180	72	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	360	43	ug/kg	U	50
o-Xylene	95-47-6	U	180	26	ug/kg	U	50
Xylenes, Total	1330-20-7	U	180	26	ug/kg	U	50

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Sample Id: **SB-30**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-009**	Date Collected: **May-08-09 12:30**	Date Received: **May-08-09 16:50**
Sample Depth: **8.5 - 10.5 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-14-09 20:57 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	180	29	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	180	43	ug/kg	U	50
Acetone	67-64-1	U	1800	250	ug/kg	U	50
Benzene	71-43-2	70	180	19	ug/kg	J	50
cis-1,2-Dichloroethene	156-59-2	6200	180	24	ug/kg		50
Cyclohexane	110-82-7	U	180	35	ug/kg	U	50
Ethylbenzene	100-41-4	51	180	21	ug/kg	J	50
Isopropylbenzene	98-82-8	U	180	28	ug/kg	U	50
Tetrachloroethene	127-18-4	1500	180	38	ug/kg		50
Toluene	108-88-3	210	180	22	ug/kg		50
trans-1,2-Dichloroethene	156-60-5	41	180	29	ug/kg	J	50
Trichloroethene	79-01-6	2300	180	26	ug/kg		50
Vinyl chloride	75-01-4	U	180	74	ug/kg	U	50
m,p-Xylenes	179601-23-1	98	370	44	ug/kg	J	50
o-Xylene	95-47-6	49	180	26	ug/kg	J	50
Xylenes, Total	1330-20-7	147	180	26	ug/kg	J	50

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Sample Id: **SB-31**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-010**	Date Collected: **May-08-09 12:50**	Date Received: **May-08-09 16:50**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-14-09 20:27 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	220	35	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	220	50	ug/kg	U	50
Acetone	67-64-1	U	2200	300	ug/kg	U	50
Benzene	71-43-2	U	220	22	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	200	220	28	ug/kg	J	50
Cyclohexane	110-82-7	U	220	41	ug/kg	U	50
Ethylbenzene	100-41-4	U	220	24	ug/kg	U	50
Isopropylbenzene	98-82-8	U	220	33	ug/kg	U	50
Tetrachloroethene	127-18-4	3400	220	45	ug/kg		50
Toluene	108-88-3	U	220	25	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	220	34	ug/kg	U	50
Trichloroethene	79-01-6	270	220	30	ug/kg		50
Vinyl chloride	75-01-4	U	220	86	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	430	52	ug/kg	U	50
o-Xylene	95-47-6	U	220	31	ug/kg	U	50
Xylenes, Total	1330-20-7	U	220	31	ug/kg	U	50

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Sample Id: **SB-31**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-011**	Date Collected: **May-08-09 12:55**	Date Received: **May-08-09 16:50**
Sample Depth: **4 - 6 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-15-09 01:19 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	180	29	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	180	41	ug/kg	U	50
Acetone	67-64-1	U	1800	240	ug/kg	U	50
Benzene	71-43-2	U	180	18	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	1600	180	24	ug/kg		50
Cyclohexane	110-82-7	U	180	34	ug/kg	U	50
Ethylbenzene	100-41-4	U	180	20	ug/kg	U	50
Isopropylbenzene	98-82-8	U	180	27	ug/kg	U	50
Tetrachloroethene	127-18-4	4500	180	37	ug/kg		50
Toluene	108-88-3	U	180	21	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	180	28	ug/kg	U	50
Trichloroethene	79-01-6	1700	180	25	ug/kg		50
m,p-Xylenes	179601-23-1	U	360	43	ug/kg	U	50
Vinyl chloride	75-01-4	U	180	72	ug/kg	U	50
o-Xylene	95-47-6	U	180	25	ug/kg	U	50
Xylenes, Total	1330-20-7	U	180	25	ug/kg	U	50

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Sample Id: **SB-31**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-012**	Date Collected: **May-08-09 13:00**	Date Received: **May-08-09 16:50**
Sample Depth: **7.5 - 9.5 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-15-09 01:47 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	140	22	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	140	32	ug/kg	U	50
Acetone	67-64-1	U	1400	190	ug/kg	U	50
Benzene	71-43-2	U	140	14	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	190	140	18	ug/kg		50
Cyclohexane	110-82-7	U	140	26	ug/kg	U	50
Ethylbenzene	100-41-4	U	140	15	ug/kg	U	50
Isopropylbenzene	98-82-8	U	140	21	ug/kg	U	50
Tetrachloroethene	127-18-4	300	140	28	ug/kg		50
Toluene	108-88-3	U	140	16	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	140	21	ug/kg	U	50
Trichloroethene	79-01-6	350	140	19	ug/kg		50
m,p-Xylenes	179601-23-1	U	270	33	ug/kg	U	50
Vinyl chloride	75-01-4	U	140	55	ug/kg	U	50
o-Xylene	95-47-6	U	140	19	ug/kg	U	50
Xylenes, Total	1330-20-7	U	140	19	ug/kg	U	50

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Sample Id: **SB-32**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-013**	Date Collected: **May-08-09 13:15**	Date Received: **May-08-09 16:50**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-15-09 02:16 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	150	25	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	150	36	ug/kg	U	50
Acetone	67-64-1	U	1500	210	ug/kg	U	50
Benzene	71-43-2	U	150	16	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	U	150	20	ug/kg	U	50
Cyclohexane	110-82-7	U	150	29	ug/kg	U	50
Ethylbenzene	100-41-4	U	150	17	ug/kg	U	50
Isopropylbenzene	98-82-8	U	150	23	ug/kg	U	50
Tetrachloroethene	127-18-4	15000	2500	520	ug/kg	D	500
Toluene	108-88-3	U	150	18	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	150	24	ug/kg	U	50
Trichloroethene	79-01-6	U	150	22	ug/kg	U	50
Vinyl chloride	75-01-4	U	150	62	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	310	37	ug/kg	U	50
o-Xylene	95-47-6	U	150	22	ug/kg	U	50
Xylenes, Total	1330-20-7	U	150	22	ug/kg	U	50

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Sample Id: **SB-32**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-014**	Date Collected: **May-08-09 13:30**	Date Received: **May-08-09 16:50**
Sample Depth: **3.5 - 5.5 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-15-09 02:45 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	160	25	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	160	36	ug/kg	U	50
Acetone	67-64-1	U	1600	210	ug/kg	U	50
Benzene	71-43-2	U	160	16	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	270	160	21	ug/kg		50
Cyclohexane	110-82-7	U	160	29	ug/kg	U	50
Ethylbenzene	100-41-4	U	160	18	ug/kg	U	50
Isopropylbenzene	98-82-8	U	160	24	ug/kg	U	50
Tetrachloroethene	127-18-4	1400000	130000	26000	ug/kg	D	25000
Toluene	108-88-3	26	160	18	ug/kg	J	50
trans-1,2-Dichloroethene	156-60-5	U	160	24	ug/kg	U	50
Trichloroethene	79-01-6	3400	160	22	ug/kg		50
m,p-Xylenes	179601-23-1	U	310	38	ug/kg	U	50
Vinyl chloride	75-01-4	U	160	62	ug/kg	U	50
o-Xylene	95-47-6	U	160	22	ug/kg	U	50
Xylenes, Total	1330-20-7	U	160	22	ug/kg	U	50

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Sample Id: **SB-32**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-015**	Date Collected: **May-08-09 13:45**	Date Received: **May-08-09 16:50**
Sample Depth: **6 - 8 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-15-09 03:13 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	190	30	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	190	44	ug/kg	U	50
Acetone	67-64-1	U	1900	260	ug/kg	U	50
Benzene	71-43-2	34	190	19	ug/kg	J	50
cis-1,2-Dichloroethene	156-59-2	2500	190	25	ug/kg		50
Cyclohexane	110-82-7	U	190	36	ug/kg	U	50
Ethylbenzene	100-41-4	300	190	21	ug/kg		50
Isopropylbenzene	98-82-8	U	190	29	ug/kg	U	50
Tetrachloroethene	127-18-4	3800000	130000	26000	ug/kg	D	25000
Toluene	108-88-3	210	190	22	ug/kg		50
trans-1,2-Dichloroethene	156-60-5	110	190	29	ug/kg	J	50
Trichloroethene	79-01-6	30000	25000	3500	ug/kg	D	5000
m,p-Xylenes	179601-23-1	500	380	46	ug/kg		50
Vinyl chloride	75-01-4	U	190	76	ug/kg	U	50
o-Xylene	95-47-6	210	190	27	ug/kg		50
Xylenes, Total	1330-20-7	710	190	27	ug/kg		50

Project: Fashion Care

Version: 1.010

Certificate of Analytical Results 332267

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-33**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-016**	Date Collected: **May-08-09 14:00**	Date Received: **May-08-09 16:50**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-15-09 03:42 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	160	26	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	160	37	ug/kg	U	50
Acetone	67-64-1	U	1600	220	ug/kg	U	50
Benzene	71-43-2	U	160	16	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	130	160	21	ug/kg	J	50
Cyclohexane	110-82-7	U	160	30	ug/kg	U	50
Ethylbenzene	100-41-4	U	160	18	ug/kg	U	50
Isopropylbenzene	98-82-8	U	160	24	ug/kg	U	50
Tetrachloroethene	127-18-4	2300000	130000	26000	ug/kg	D	25000
Toluene	108-88-3	U	160	19	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	160	25	ug/kg	U	50
Trichloroethene	79-01-6	4400	160	23	ug/kg		50
m,p-Xylenes	179601-23-1	U	320	39	ug/kg	U	50
Vinyl chloride	75-01-4	U	160	64	ug/kg	U	50
o-Xylene	95-47-6	U	160	23	ug/kg	U	50
Xylenes, Total	1330-20-7	U	160	23	ug/kg	U	50

Project: Fashion Care

Version: 1.010

Certificate of Analytical Results 332267

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-33**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-017**	Date Collected: **May-08-09 14:15**	Date Received: **May-08-09 16:50**
Sample Depth: **4 - 6 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-15-09 04:10 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	140	23	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	140	33	ug/kg	U	50
Acetone	67-64-1	U	1400	200	ug/kg	U	50
Benzene	71-43-2	U	140	15	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	590	140	19	ug/kg		50
Cyclohexane	110-82-7	U	140	27	ug/kg	U	50
Ethylbenzene	100-41-4	U	140	16	ug/kg	U	50
Isopropylbenzene	98-82-8	U	140	22	ug/kg	U	50
Tetrachloroethene	127-18-4	100000	25000	5200	ug/kg	D	5000
Toluene	108-88-3	U	140	17	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	140	22	ug/kg	U	50
Trichloroethene	79-01-6	1700	140	20	ug/kg		50
Vinyl chloride	75-01-4	U	140	57	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	280	34	ug/kg	U	50
o-Xylene	95-47-6	U	140	20	ug/kg	U	50
Xylenes, Total	1330-20-7	U	140	20	ug/kg	U	50

Project: Fashion Care

Version: 1.010

Certificate of Analytical Results 332267

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-33**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-018**	Date Collected: **May-08-09 14:25**	Date Received: **May-08-09 16:50**
Sample Depth: **7 - 9 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-15-09 04:39 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	190	31	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	190	45	ug/kg	U	50
Acetone	67-64-1	U	1900	270	ug/kg	U	50
Benzene	71-43-2	U	190	20	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	200	190	26	ug/kg		50
Cyclohexane	110-82-7	U	190	37	ug/kg	U	50
Ethylbenzene	100-41-4	U	190	22	ug/kg	U	50
Isopropylbenzene	98-82-8	U	190	30	ug/kg	U	50
Tetrachloroethene	127-18-4	8100	2500	520	ug/kg	D	500
Toluene	108-88-3	U	190	23	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	190	30	ug/kg	U	50
Trichloroethene	79-01-6	440	190	28	ug/kg		50
Vinyl chloride	75-01-4	U	190	78	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	390	47	ug/kg	U	50
o-Xylene	95-47-6	U	190	28	ug/kg	U	50
Xylenes, Total	1330-20-7	U	190	28	ug/kg	U	50

Project: Fashion Care

Version: 1.010

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

***** Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759010 **Sample:** 332309-005 S / MS **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/14/09 16:37

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48	50	96	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	51	50	102	45-140	

Lab Batch #: 759010 **Sample:** 332309-005 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/14/09 17:06

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49	50	98	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	51	50	102	45-140	

Lab Batch #: 759057 **Sample:** 530031-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/14/09 18:58

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52	50	104	46-167	
4-Bromofluorobenzene	51	50	102	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 530031-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/14/09 19:58

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51	50	102	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759057 **Sample:** 332267-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/14/09 20:27

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 332267-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/14/09 20:57

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 332267-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/14/09 21:26

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 332267-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/14/09 21:56

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759057 **Sample:** 332267-006 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/14/09 22:25

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 332267-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/14/09 23:52

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49	50	98	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 332267-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 00:21

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 332267-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 00:50

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51	50	102	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759057 **Sample:** 332267-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 01:19

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 332267-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 01:47

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 332267-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 02:16

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 332267-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 02:45

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	51	50	102	57-158	
Toluene-D8	52	50	104	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759057 **Sample:** 332267-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 03:13

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51	50	102	46-167	
4-Bromofluorobenzene	51	50	102	57-158	
Toluene-D8	57	50	114	45-140	

Lab Batch #: 759057 **Sample:** 332267-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 03:42

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49	50	98	46-167	
4-Bromofluorobenzene	51	50	102	57-158	
Toluene-D8	55	50	110	45-140	

Lab Batch #: 759057 **Sample:** 332267-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 04:10

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51	50	102	46-167	
4-Bromofluorobenzene	51	50	102	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 332267-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 04:39

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	51	50	102	57-158	
Toluene-D8	51	50	102	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759193 **Sample:** 530126-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/15/09 07:25

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	44	50	88	46-167	
4-Bromofluorobenzene	48	50	96	57-158	
Toluene-D8	48	50	96	45-140	

Lab Batch #: 759193 **Sample:** 530126-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/15/09 08:18

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52	50	104	46-167	
4-Bromofluorobenzene	55	50	110	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759193 **Sample:** 332267-014 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 13:14

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52	50	104	46-167	
4-Bromofluorobenzene	53	50	106	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 759193 **Sample:** 332267-016 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 13:43

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	46-167	
4-Bromofluorobenzene	53	50	106	57-158	
Toluene-D8	48	50	96	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759193 **Sample:** 332267-017 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 14:11

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	46-167	
4-Bromofluorobenzene	52	50	104	57-158	
Toluene-D8	48	50	96	45-140	

Lab Batch #: 759193 **Sample:** 332267-014 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 14:39

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	46-167	
4-Bromofluorobenzene	52	50	104	57-158	
Toluene-D8	48	50	96	45-140	

Lab Batch #: 759193 **Sample:** 332267-015 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 15:08

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52	50	104	46-167	
4-Bromofluorobenzene	53	50	106	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 759193 **Sample:** 332267-016 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 15:40

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52	50	104	46-167	
4-Bromofluorobenzene	54	50	108	57-158	
Toluene-D8	49	50	98	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759232 **Sample:** 530153-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/15/09 16:48

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	45	50	90	46-167	
4-Bromofluorobenzene	46	50	92	57-158	
Toluene-D8	48	50	96	45-140	

Lab Batch #: 759232 **Sample:** 530153-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/15/09 17:40

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54	50	108	46-167	
4-Bromofluorobenzene	53	50	106	57-158	
Toluene-D8	48	50	96	45-140	

Lab Batch #: 759232 **Sample:** 332267-003 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/16/09 01:44

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54	50	108	46-167	
4-Bromofluorobenzene	54	50	108	57-158	
Toluene-D8	48	50	96	45-140	

Lab Batch #: 759232 **Sample:** 332267-013 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/16/09 02:10

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	46-167	
4-Bromofluorobenzene	54	50	108	57-158	
Toluene-D8	48	50	96	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759232 **Sample:** 332267-018 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/16/09 02:36

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	46-167	
4-Bromofluorobenzene	54	50	108	57-158	
Toluene-D8	48	50	96	45-140	

Lab Batch #: 759232 **Sample:** 332267-002 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/16/09 03:05

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	46-167	
4-Bromofluorobenzene	54	50	108	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 759232 **Sample:** 332267-015 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/16/09 03:33

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	46-167	
4-Bromofluorobenzene	56	50	112	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 759320 **Sample:** 530206-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/18/09 08:08

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	51	50	102	57-158	
Toluene-D8	49	50	98	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759320 **Sample:** 530206-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/18/09 09:05

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48	50	96	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 759320 **Sample:** 332267-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/18/09 15:41

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54	50	108	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	48	50	96	45-140	

Lab Batch #: 759320 **Sample:** 332267-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/18/09 16:09

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	56	50	112	46-167	
4-Bromofluorobenzene	53	50	106	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 759320 **Sample:** 332267-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/18/09 16:38

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	46-167	
4-Bromofluorobenzene	51	50	102	57-158	
Toluene-D8	49	50	98	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759458 **Sample:** 530292-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/19/09 08:12

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58	50	116	46-167	
4-Bromofluorobenzene	47	50	94	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759458 **Sample:** 530292-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/19/09 09:04

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	55	50	110	46-167	
4-Bromofluorobenzene	55	50	110	57-158	
Toluene-D8	51	50	102	45-140	

Lab Batch #: 759458 **Sample:** 332267-008 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/19/09 14:32

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	56	50	112	46-167	
4-Bromofluorobenzene	54	50	108	57-158	
Toluene-D8	50	50	100	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 332267 **Project ID:** 08096

Lab Batch #: 759057 **Sample:** 530031-1-BKS **Matrix:** Solid
Date Analyzed: 05/14/2009 **Date Prepared:** 05/14/2009 **Analyst:** ANI
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<58	2500	2400	96	35-170	
Benzene	<26	2500	2400	96	38-158	
Toluene	<29	2500	2400	96	50-150	
Trichloroethene	<35	2500	2400	96	50-150	

Lab Batch #: 759193 **Sample:** 530126-1-BKS **Matrix:** Solid
Date Analyzed: 05/15/2009 **Date Prepared:** 05/15/2009 **Analyst:** ANI
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<58	2500	2600	104	35-170	
Benzene	<26	2500	2400	96	38-158	
Toluene	<29	2500	2500	100	50-150	
Trichloroethene	<35	2500	2400	96	50-150	

Lab Batch #: 759232 **Sample:** 530153-1-BKS **Matrix:** Solid
Date Analyzed: 05/15/2009 **Date Prepared:** 05/15/2009 **Analyst:** ANI
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<58	2500	2300	92	35-170	
Benzene	<26	2500	2200	88	38-158	
Toluene	<29	2500	2300	92	50-150	
Trichloroethene	<35	2500	2500	100	50-150	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 332267 **Project ID:** 08096

Lab Batch #: 759320 **Sample:** 530206-1-BKS **Matrix:** Solid
Date Analyzed: 05/18/2009 **Date Prepared:** 05/18/2009 **Analyst:** ANI
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.2	50	57	114	35-170	
Benzene	<0.51	50	51	102	38-158	
Toluene	<0.59	50	48	96	50-150	
Trichloroethene	<0.71	50	54	108	50-150	

Lab Batch #: 759458 **Sample:** 530292-1-BKS **Matrix:** Solid
Date Analyzed: 05/19/2009 **Date Prepared:** 05/19/2009 **Analyst:** 4124
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<58	2500	2300	92	35-170	
Benzene	<26	2500	2300	92	38-158	
Toluene	<29	2500	2400	96	50-150	
Trichloroethene	<35	2500	2100	84	50-150	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 332267 **Project ID:** 08096

Lab Batch ID: 759010 **QC- Sample ID:** 332309-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 05/14/2009 **Date Prepared:** 05/14/2009 **Analyst:** ANI

Reporting Units: ug/kg

Select VOCs by SW-846 8260B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<5.0	60	56	93	60	60	100	7	35-170	20	
Benzene	<5.0	60	54	90	60	58	97	7	38-158	20	
Toluene	1.6	60	57	92	60	58	94	2	50-150	20	
Trichloroethene	<5.0	60	56	93	60	61	102	9	50-150	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

XENCO Laboratories
Florida Testing Services, LLC

☐ 10200 USA Today Way, Miramar, FL 33025 954-431-4550
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☐ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800
☐ Philadephia/New Jersey 610-955-5649
☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 248473 Page 1 of 2

Company-City: Winter Environmental **Phone:** 404 588 3300

Lab Only: WO# ~~332266~~ 332267

Proj Name-Location: Fashion Care ☐ Previously done at XENCO **Project ID:** 08096

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Proj State: AL, FL, (GA), LA, MS, NC, NJ, PA, SC, TN, TX, UT Other **Proj. Manager (PM):**

e-Mail Results to ☐ PM or **Fax No:**
ldiprima@winter-environmental.com

Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O
Bill to:

Quote/Pricing: **P.O No:** 08096 ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA

QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

Sampler Name: Greg Muse Signature:

	Sample ID	Sampling Date	Time	Depth ft' in" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs	VOCs PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs	FL PRO DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCL PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	VOCs See attached sheet Method 8260	TAT ASAP 5h 12h 24h 48h 3d 5d (7d) 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Remarks: Sample Clean-ups are pre-approved as needed	Addn:	
1	SB-28	5/8/09	1010	0-2'	S		X	4													X	X					1
2	SB-28		1015	4-6'	S		X	4													X	X					2
3	SB-28		1020	8-10'	S		X	4													X	X					3
4	SB-29		1030	0-2'	S		X	4													X	X					4
5	SB-29		~~1030~~ 1040	~~0-2~~ 4-5'	S		X	4													X	X					5
6	SB-29		1045	8-10'	S		X	4													X	X					6
7	SB-30		1220	0-2'	S		X	4													X	X					7
8	SB-30		1225	4.5-6.5'	S		X	4													X	X					8
9	SB-30		1230	8.5-10.5'	S		X	4													X	X					9
10	SB-31		1250	0-2'	S		X	4													X	X					10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) GTM	5/8/09 4:50	2)	5/8/09 1650
2) 3)		4)	
3) 5)		6)	

Total Containers per COC: 72 Cooler Temp: 4.3

Upon signings this COC you accept XENCO terms and Conditions unless otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved.

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O) _____

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)

Matrix: Air (A), Product (P), Solid(S), Water (W), Liquid (L)

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Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previoiusly negotiated under a fully executed client contract.

XENCO Laboratories
Florida Testing Services, LLC

☐ 10200 USA Today Way, Miramar, FL 33025 954-431-4550
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☐ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800
☐ Philadephia/New Jersey 610-955-5649
☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 248230 Page 2 of 2

Company-City: Winter Environmental **Phone:** 404 588 3300

Lab Only: WO# 332267

Proj Name-Location: Fashion Care ☐ Previously done at XENCO **Project ID:** 08096

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Proj State: AL, FL, (GA) LA, MS, NC, NJ, PA, SC, TN, TX, UT Other **Proj. Manager (PM):** Len Diprima

e-Mail Results to ☐ PM or **Fax No:** ldiprima@winter-environmental.com

Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O
Bill to:

Quote/Pricing: **P.O No:** 08096 ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA

QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

Sampler Name Greg Muse Signature

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs	VOCs PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs	FL PRO DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCL PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	VOCs, See attached sheet Method 8260	TAT ASAP 5h 12h 24h 48h 3d 5d (7d) 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Remarks: Sample Clean-ups are pre-approved as needed	Addn: Date Rcv by: From:
1	SB-31	5/8/09	1255	4-6'	S		X	4													X	X				
2	SB-31		1300	7.5-9.5'	S		X	4													X	X				
3	SB-32		1315	0-2'	S		X	4													X	X				
4	SB-32		1330	3.5-5.5'	S		X	4													X	X				
5	SB-32		1345	6-8'	S		X	4													X	X				
6	SB-33		1400	0-2'	S		X	4													X	X				
7	SB-33		1415	4-6'	S		X	4													X	X				
8	SB-33		1425	7-9'	S		X	4													X	X				
9																										
10																										

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) GM	5/8/09 4:50	2)	5/8/09 1650
2) 3)		4)	
3) 5)		6)	

Total Containers per COC: Cooler Temp:

Upon signings this COC you accept XENCO terms and Conditions unless otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved.

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O) _____

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)

Matrix: Air (A), Product (P), Solid(S), Water (W), Liquid (L)

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Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previoiusly negotiated under a fully executed client contract.

Laboratory Analysis List
Fashion Care/Executive Care Site
Winter Environmental Project No. 08096

WO # 332267

- VOCs (soil):
  - Tetrachloroethene (PCE)
  - cis-1, 2-Dichloroethene
  - trans-1, 2-Dichloroethene
  - 1, 1-Dichloroethene (1,1-DCE)
  - Trichloroethene (TCE)
  - Vinyl Chloride (VC)
  - Benzene
  - Toluene
  - Ethylbenzene
  - Total Xylenes
  - Cyclohexane
  - Isopropylbenzene
  - 1, 1-Dichloroethane
  - Acetone
- VOCs (groundwater): TCL List
- BOD & COD (groundwater)
- Anions (groundwater): sodium, chlorides, SO4, dissolved Iron

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Winter Env.

Date/ Time: 5/8/09 1650

Lab ID # : 3322167

Initials: JAH

Sample Receipt Checklist

#1	Temperature of cooler?				4.3 °C
#2	Shipping container in good condition?	YES	No	None	
#3	Samples received on ice?	YES	No	N/A	Blue/Water
#4	Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	N/A	
#6	Chain of Custody present?	YES	No		
#7	Sample instructions complete of Chain of Custody?	YES	No		
#8	Any missing/extra samples?	Yes	NO		
#9	Chain of Custody signed when relinquished/ received?	YES	No		
#10	Chain of Custody agrees with sample label(s)?	YES	No		
#11	Container label(s) legible and intact?	YES	No		
#12	Sample matrix/ properties agree with Chain of Custody?	YES	No		
#13	Samples in proper container/ bottle?	YES	No		
#14	Samples properly preserved?	YES	No	N/A	
#15	Sample container(s) intact?	YES	No		
#16	Sufficient sample amount for indicated test(s)?	YES	No		
#17	All samples received within sufficient hold time?	YES	No		
#18	Subcontract of sample(s)?	Yes	NO		
#19	VOC samples have zero headspace?	YES	No	N/A	

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 333113

for

Winter Environmental

Project Manager: Len Diprima

Fashion Care

08096

19-JUN-09

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Texas certification numbers:
Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX
Corpus Christi, TX T104704370-08-TX - Dallas, TX T104704295-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Miramar, FL E86349
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

19-JUN-09

Project Manager: **Len Diprima**
Winter Environmental
3350 Green Pointe Pkwy
Suite 200
Norcross, GA 30092

Reference: XENCO Report No: **333113**
Fashion Care
Project Address: Georgia

Len Diprima:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 333113. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 333113 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

David C. Fuller
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 333113

Winter Environmental, Norcross, GA

Fashion Care

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-34 (0-2)	S	May-18-09 11:00	0 - 2 ft	333113-001
SB-34 (2.5-4.5)	S	May-18-09 11:05	2.5 - 4.5 ft	333113-002
SB-34 (5-7)	S	May-18-09 11:10	5 - 7 ft	333113-003
SB-35 (0-2)	S	May-18-09 10:00	0 - 2 ft	333113-004
SB-35 (2.5-4.5)	S	May-18-09 10:20	2.5 - 4.5 ft	333113-005
SB-35 (5-7)	S	May-18-09 10:25	5 - 7 ft	333113-006
SB-36 (0-2)	S	May-18-09 10:35	0 - 2 ft	333113-007
SB-36 (3-5)	S	May-18-09 10:40	3 - 5 ft	333113-008
SB-36 (6-8)	S	May-18-09 10:45	6 - 8 ft	333113-009
IDW51809	W	May-18-09 14:00		333113-010
TRIP BLANK	W	May-18-09 00:00		333113-011

Certificate of Analytical Results 333113

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-34 (0-2)**	Matrix: **SOIL**	% Moisture: **19.75**
Lab Sample Id: **333113-001**	Date Collected: **May-18-09 11:00**	Date Received: **May-18-09 15:25**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-27-09 23:47 Analyst: 4124 Date Prep: May-27-09 15:57 Tech: 4124

Seq Number: 760335

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	58	47	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	58	67	ug/kg	U	50
Acetone	67-64-1	U	580	400	ug/kg	U	50
Benzene	71-43-2	U	58	30	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	U	58	38	ug/kg	U	50
Cyclohexane	110-82-7	U	58	55	ug/kg	U	50
Ethylbenzene	100-41-4	U	58	33	ug/kg	U	50
Isopropylbenzene	98-82-8	U	58	44	ug/kg	U	50
Tetrachloroethene	127-18-4	240	58	60	ug/kg		50
Toluene	108-88-3	U	58	34	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	58	45	ug/kg	U	50
Trichloroethene	79-01-6	U	58	41	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	120	70	ug/kg	U	50
Vinyl chloride	75-01-4	U	58	120	ug/kg	U	50
o-Xylene	95-47-6	U	58	42	ug/kg	U	50
Xylenes, Total	1330-20-7	U	58	42	ug/kg	U	50

Project: Fashion Care

Version: 1.007

Certificate of Analytical Results 333113

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-34 (2.5-4.5)**	Matrix: **SOIL**	% Moisture: **18.5**
Lab Sample Id: **333113-002**	Date Collected: **May-18-09 11:05**	Date Received: **May-18-09 15:25**
Sample Depth: **2.5 - 4.5 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-27-09 23:21 Analyst: 4124 Date Prep: May-27-09 15:57 Tech: 4124

Seq Number: 760335

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	48	39	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	48	56	ug/kg	U	50
Acetone	67-64-1	U	480	330	ug/kg	U	50
Benzene	71-43-2	U	48	25	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	U	48	32	ug/kg	U	50
Cyclohexane	110-82-7	U	48	46	ug/kg	U	50
Ethylbenzene	100-41-4	U	48	27	ug/kg	U	50
Isopropylbenzene	98-82-8	U	48	37	ug/kg	U	50
Tetrachloroethene	127-18-4	2600	48	50	ug/kg		50
Toluene	108-88-3	U	48	28	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	48	38	ug/kg	U	50
Trichloroethene	79-01-6	53	48	34	ug/kg		50
Vinyl chloride	75-01-4	U	48	97	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	97	58	ug/kg	U	50
o-Xylene	95-47-6	U	48	35	ug/kg	U	50
Xylenes, Total	1330-20-7	U	48	35	ug/kg	U	50

Project: Fashion Care

Version: 1.007

Certificate of Analytical Results 333113

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-34 (5-7)**	Matrix: **SOIL**	% Moisture: **20.08**
Lab Sample Id: **333113-003**	Date Collected: **May-18-09 11:10**	Date Received: **May-18-09 15:25**
Sample Depth: **5 - 7 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-27-09 22:55 Analyst: 4124 Date Prep: May-27-09 15:57 Tech: 4124

Seq Number: 760335

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	46	37	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	46	53	ug/kg	U	50
Acetone	67-64-1	U	460	320	ug/kg	U	50
Benzene	71-43-2	U	46	23	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	310	46	30	ug/kg		50
Cyclohexane	110-82-7	U	46	43	ug/kg	U	50
Ethylbenzene	100-41-4	U	46	26	ug/kg	U	50
Isopropylbenzene	98-82-8	U	46	35	ug/kg	U	50
Tetrachloroethene	127-18-4	390	46	47	ug/kg		50
Toluene	108-88-3	U	46	27	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	46	36	ug/kg	U	50
Trichloroethene	79-01-6	260	46	32	ug/kg		50
Vinyl chloride	75-01-4	U	46	92	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	92	55	ug/kg	U	50
o-Xylene	95-47-6	U	46	33	ug/kg	U	50
Xylenes, Total	1330-20-7	U	46	33	ug/kg	U	50

Project: Fashion Care

Version: 1.007

Certificate of Analytical Results 333113

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-35 (0-2)**	Matrix: **SOIL**	% Moisture: **17.07**
Lab Sample Id: **333113-004**	Date Collected: **May-18-09 10:00**	Date Received: **May-18-09 15:25**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-27-09 22:02 Analyst: 4124 Date Prep: May-27-09 15:57 Tech: 4124

Seq Number: 760335

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	51	41	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	51	59	ug/kg	U	50
Acetone	67-64-1	U	510	350	ug/kg	U	50
Benzene	71-43-2	U	51	26	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	U	51	34	ug/kg	U	50
Cyclohexane	110-82-7	U	51	48	ug/kg	U	50
Ethylbenzene	100-41-4	U	51	29	ug/kg	U	50
Isopropylbenzene	98-82-8	U	51	38	ug/kg	U	50
Tetrachloroethene	127-18-4	270	51	53	ug/kg		50
Toluene	108-88-3	U	51	30	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	51	40	ug/kg	U	50
Trichloroethene	79-01-6	U	51	36	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	100	61	ug/kg	U	50
Vinyl chloride	75-01-4	U	51	100	ug/kg	U	50
o-Xylene	95-47-6	U	51	36	ug/kg	U	50
Xylenes, Total	1330-20-7	U	51	36	ug/kg	U	50

Project: Fashion Care

Version: 1.007

Certificate of Analytical Results 333113

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-35 (2.5-4.5)**	Matrix: **SOIL**	% Moisture: **19.5**
Lab Sample Id: **333113-005**	Date Collected: **May-18-09 10:20**	Date Received: **May-18-09 15:25**
Sample Depth: **2.5 - 4.5 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-27-09 21:36 Analyst: 4124 Date Prep: May-27-09 15:57 Tech: 4124

Seq Number: 760335

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	46	37	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	46	53	ug/kg	U	50
Acetone	67-64-1	U	460	320	ug/kg	U	50
Benzene	71-43-2	53	46	24	ug/kg		50
cis-1,2-Dichloroethene	156-59-2	1500	46	30	ug/kg		50
Cyclohexane	110-82-7	U	46	43	ug/kg	U	50
Ethylbenzene	100-41-4	U	46	26	ug/kg	U	50
Isopropylbenzene	98-82-8	U	46	35	ug/kg	U	50
Tetrachloroethene	127-18-4	1000	46	47	ug/kg		50
Toluene	108-88-3	U	46	27	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	46	36	ug/kg	U	50
Trichloroethene	79-01-6	150	46	32	ug/kg		50
m,p-Xylenes	179601-23-1	U	92	55	ug/kg	U	50
Vinyl chloride	75-01-4	U	46	92	ug/kg	U	50
o-Xylene	95-47-6	U	46	33	ug/kg	U	50
Xylenes, Total	1330-20-7	U	46	33	ug/kg	U	50

Project: Fashion Care

Version: 1.007

Certificate of Analytical Results 333113

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-35 (5-7)**	Matrix: **SOIL**	% Moisture: **19.44**
Lab Sample Id: **333113-006**	Date Collected: **May-18-09 10:25**	Date Received: **May-18-09 15:25**
Sample Depth: **5 - 7 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-27-09 21:10 Analyst: 4124 Date Prep: May-27-09 15:57 Tech: 4124

Seq Number: 760335

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	51	41	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	51	59	ug/kg	U	50
Acetone	67-64-1	U	510	350	ug/kg	U	50
Benzene	71-43-2	U	51	26	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	140	51	34	ug/kg		50
Cyclohexane	110-82-7	U	51	48	ug/kg	U	50
Ethylbenzene	100-41-4	U	51	29	ug/kg	U	50
Isopropylbenzene	98-82-8	U	51	39	ug/kg	U	50
Tetrachloroethene	127-18-4	120	51	53	ug/kg		50
Toluene	108-88-3	U	51	30	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	51	40	ug/kg	U	50
Trichloroethene	79-01-6	U	51	36	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	100	61	ug/kg	U	50
Vinyl chloride	75-01-4	U	51	100	ug/kg	U	50
o-Xylene	95-47-6	U	51	36	ug/kg	U	50
Xylenes, Total	1330-20-7	U	51	36	ug/kg	U	50

Project: Fashion Care

Version: 1.007

Certificate of Analytical Results 333113

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-36 (0-2)**	Matrix: **SOIL**	% Moisture: **17.86**
Lab Sample Id: **333113-007**	Date Collected: **May-18-09 10:35**	Date Received: **May-18-09 15:25**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-27-09 20:43 Analyst: 4124 Date Prep: May-27-09 15:57 Tech: 4124

Seq Number: 760335

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	48	38	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	48	55	ug/kg	U	50
Acetone	67-64-1	U	480	330	ug/kg	U	50
Benzene	71-43-2	U	48	24	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	260	48	31	ug/kg		50
Cyclohexane	110-82-7	U	48	45	ug/kg	U	50
Ethylbenzene	100-41-4	U	48	27	ug/kg	U	50
Isopropylbenzene	98-82-8	U	48	36	ug/kg	U	50
Tetrachloroethene	127-18-4	590	48	49	ug/kg		50
Toluene	108-88-3	U	48	28	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	48	37	ug/kg	U	50
Trichloroethene	79-01-6	110	48	34	ug/kg		50
Vinyl chloride	75-01-4	U	48	95	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	95	57	ug/kg	U	50
o-Xylene	95-47-6	U	48	34	ug/kg	U	50
Xylenes, Total	1330-20-7	U	48	34	ug/kg	U	50

Project: Fashion Care

Version: 1.007

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-36 (3-5)**	Matrix: **SOIL**	% Moisture: **19.42**
Lab Sample Id: **333113-008**	Date Collected: **May-18-09 10:40**	Date Received: **May-18-09 15:25**
Sample Depth: **3 - 5 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-27-09 20:17 Analyst: 4124 Date Prep: May-27-09 15:57 Tech: 4124

Seq Number: 760335

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	49	39	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	49	57	ug/kg	U	50
Acetone	67-64-1	U	490	340	ug/kg	U	50
Benzene	71-43-2	61	49	25	ug/kg		50
cis-1,2-Dichloroethene	156-59-2	1700	49	32	ug/kg		50
Cyclohexane	110-82-7	U	49	46	ug/kg	U	50
Ethylbenzene	100-41-4	U	49	28	ug/kg	U	50
Isopropylbenzene	98-82-8	U	49	37	ug/kg	U	50
Tetrachloroethene	127-18-4	U	49	51	ug/kg	U	50
Toluene	108-88-3	35	49	29	ug/kg	J	50
trans-1,2-Dichloroethene	156-60-5	U	49	38	ug/kg	U	50
Trichloroethene	79-01-6	U	49	35	ug/kg	U	50
Vinyl chloride	75-01-4	U	49	98	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	98	59	ug/kg	U	50
o-Xylene	95-47-6	U	49	35	ug/kg	U	50
Xylenes, Total	1330-20-7	U	49	35	ug/kg	U	50

Project: Fashion Care

Version: 1.007

Certificate of Analytical Results 333113

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-36 (6-8)**	Matrix: **SOIL**	% Moisture: **19.66**
Lab Sample Id: **333113-009**	Date Collected: **May-18-09 10:45**	Date Received: **May-18-09 15:25**
Sample Depth: **6 - 8 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-27-09 19:50 Analyst: 4124 Date Prep: May-27-09 15:57 Tech: 4124

Seq Number: 760335

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	47	37	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	47	54	ug/kg	U	50
Acetone	67-64-1	U	470	320	ug/kg	U	50
Benzene	71-43-2	U	47	24	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	320	47	31	ug/kg		50
Cyclohexane	110-82-7	U	47	44	ug/kg	U	50
Ethylbenzene	100-41-4	27	47	26	ug/kg	J	50
Isopropylbenzene	98-82-8	U	47	35	ug/kg	U	50
Tetrachloroethene	127-18-4	110	47	48	ug/kg		50
Toluene	108-88-3	36	47	27	ug/kg	J	50
trans-1,2-Dichloroethene	156-60-5	U	47	36	ug/kg	U	50
Trichloroethene	79-01-6	U	47	33	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	93	56	ug/kg	U	50
Vinyl chloride	75-01-4	U	47	93	ug/kg	U	50
o-Xylene	95-47-6	U	47	33	ug/kg	U	50
Xylenes, Total	1330-20-7	U	47	33	ug/kg	U	50

Project: Fashion Care

Version: 1.007

Certificate of Analytical Results 333113

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **IDW51809**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **333113-010**	Date Collected: **May-18-09 14:00**	Date Received: **May-18-09 15:25**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-28-09 20:11 Analyst: ANI Date Prep: May-28-09 16:38 Tech: MHR

Seq Number: 760431

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	U	1
1,4-Dioxane	123-91-1	U	20.0	8.84	ug/L	U	1
2-Butanone (MEK)	78-93-3	11.0	2.00	0.280	ug/L		1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	U	1
Acetone	67-64-1	800	1000	27.4	ug/L	J	20
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	U	1
Carbon disulfide	75-15-0	U	1.00	0.260	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	U	1
Ethylbenzene	100-41-4	1.80	1.00	0.190	ug/L		1
Isopropylbenzene	98-82-8	0.420	1.00	0.150	ug/L	J	1
m,p-Xylenes	179601-23-1	10.8	2.00	0.510	ug/L		1
Methyl acetate	79-20-9	U	2.00	0.260	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	40.7	2.00	0.180	ug/L		1

Project: Fashion Care

Version: 1.007

Certificate of Analytical Results 333113

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **IDW51809**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **333113-010**	Date Collected: **May-18-09 14:00**	Date Received: **May-18-09 15:25**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-28-09 20:11 Analyst: ANI Date Prep: May-28-09 16:38 Tech: MHR

Seq Number: 760431

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	U	1
o-Xylene	95-47-6	11.7	1.00	0.200	ug/L		1
Styrene	100-42-5	U	1.00	0.180	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	U	1
Xylenes, Total	1330-20-7	22.5	1.00	0.200	ug/L		1

Project: Fashion Care

Version: 1.007

Certificate of Analytical Results 333113

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **TRIP BLANK** Matrix: **WATER** % Moisture:
Lab Sample Id: **333113-011** Date Collected: **May-18-09 00:00** Date Received: **May-18-09 15:25**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-28-09 19:08 Analyst: ANI Date Prep: May-28-09 16:38 Tech: MHR
Seq Number: 760431

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	U	1
1,4-Dioxane	123-91-1	U	20.0	8.84	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	U	1
Carbon disulfide	75-15-0	U	1.00	0.260	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
Methyl acetate	79-20-9	U	2.00	0.260	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1

Project: Fashion Care

Version: 1.007

Certificate of Analytical Results 333113

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **TRIP BLANK**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **333113-011**	Date Collected: **May-18-09 00:00**	Date Received: **May-18-09 15:25**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-28-09 19:08 Analyst: ANI Date Prep: May-28-09 16:38 Tech: MHR

Seq Number: 760431

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	U	1
Xylenes, Total	1330-20-7	U	1.00	0.200	ug/L	U	1

Project: Fashion Care

Version: 1.007

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

***** Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 333113, **Project ID:** 08096

Lab Batch #: 760335 **Sample:** 530804-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/27/09 16:46

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	47	50	94	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 760335 **Sample:** 530804-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/27/09 17:39

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	61	50	122	46-167	
4-Bromofluorobenzene	54	50	108	57-158	
Toluene-D8	51	50	102	45-140	

Lab Batch #: 760335 **Sample:** 333113-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/27/09 19:50

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58	50	116	46-167	
4-Bromofluorobenzene	46	50	92	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 760335 **Sample:** 333113-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/27/09 20:17

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58	50	116	46-167	
4-Bromofluorobenzene	45	50	90	57-158	
Toluene-D8	49	50	98	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 333113, **Project ID:** 08096

Lab Batch #: 760335 **Sample:** 333113-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/27/09 20:43

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	57	50	114	46-167	
4-Bromofluorobenzene	46	50	92	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 760335 **Sample:** 333113-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/27/09 21:10

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	57	50	114	46-167	
4-Bromofluorobenzene	45	50	90	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 760335 **Sample:** 333113-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/27/09 21:36

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	57	50	114	46-167	
4-Bromofluorobenzene	45	50	90	57-158	
Toluene-D8	48	50	96	45-140	

Lab Batch #: 760335 **Sample:** 333113-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/27/09 22:02

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58	50	116	46-167	
4-Bromofluorobenzene	45	50	90	57-158	
Toluene-D8	49	50	98	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 333113, **Project ID:** 08096

Lab Batch #: 760335 **Sample:** 333113-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/27/09 22:55

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58	50	116	46-167	
4-Bromofluorobenzene	45	50	90	57-158	
Toluene-D8	48	50	96	45-140	

Lab Batch #: 760335 **Sample:** 333113-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/27/09 23:21

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58	50	116	46-167	
4-Bromofluorobenzene	45	50	90	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 760335 **Sample:** 333113-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/27/09 23:47

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58	50	116	46-167	
4-Bromofluorobenzene	45	50	90	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 760431 **Sample:** 530853-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 05/28/09 17:31

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49.63	50.00	99	53-159	
4-Bromofluorobenzene	52.03	50.00	104	30-186	
Toluene-D8	48.47	50.00	97	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 333113, **Project ID:** 08096

Lab Batch #: 760431 **Sample:** 530853-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 05/28/09 18:36

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49.19	50.00	98	53-159	
4-Bromofluorobenzene	50.84	50.00	102	30-186	
Toluene-D8	48.70	50.00	97	70-130	

Lab Batch #: 760431 **Sample:** 333113-011 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 05/28/09 19:08

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48.98	50.00	98	53-159	
4-Bromofluorobenzene	51.32	50.00	103	30-186	
Toluene-D8	48.74	50.00	97	70-130	

Lab Batch #: 760431 **Sample:** 333113-010 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 05/28/09 20:11

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50.31	50.00	101	53-159	
4-Bromofluorobenzene	50.97	50.00	102	30-186	
Toluene-D8	48.71	50.00	97	70-130	

Lab Batch #: 760431 **Sample:** 333535-002 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 05/29/09 02:45

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53.23	50.00	106	53-159	
4-Bromofluorobenzene	54.05	50.00	108	30-186	
Toluene-D8	48.47	50.00	97	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 333113, **Project ID:** 08096

Lab Batch #: 760431 **Sample:** 333535-002 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 05/29/09 03:14

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51.80	50.00	104	53-159	
4-Bromofluorobenzene	53.39	50.00	107	30-186	
Toluene-D8	48.32	50.00	97	70-130	

Lab Batch #: 760829 **Sample:** 531042-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 06/01/09 08:10

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49	50.00	98	53-159	
4-Bromofluorobenzene	51	50.00	102	30-186	
Toluene-D8	46	50.00	92	70-130	

Lab Batch #: 760829 **Sample:** 531042-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 06/01/09 09:09

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48.40	50.00	96	53-159	
4-Bromofluorobenzene	50.21	50.00	100	30-186	
Toluene-D8	46.20	50.00	92	70-130	

Lab Batch #: 760829 **Sample:** 333113-010 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 06/01/09 15:31

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51.52	50.00	103	53-159	
4-Bromofluorobenzene	52.06	50.00	104	30-186	
Toluene-D8	50.64	50.00	101	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 333113,

Project ID: 08096

Lab Batch #: 760829 **Sample:** 333939-004 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 06/01/09 18:50

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50.00	106	53-159	
4-Bromofluorobenzene	53	50.00	106	30-186	
Toluene-D8	51	50.00	102	70-130	

Lab Batch #: 760829 **Sample:** 333939-004 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 06/01/09 19:22

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52	50.00	104	53-159	
4-Bromofluorobenzene	52	50.00	104	30-186	
Toluene-D8	50	50.00	100	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 333113 **Project ID:** 08096

Lab Batch #: 760335 **Sample:** 530804-1-BKS **Matrix:** Solid
Date Analyzed: 05/27/2009 **Date Prepared:** 05/27/2009 **Analyst:** 4124
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<58	2500	2300	92	35-170	
Benzene	<26	2500	2400	96	38-158	
Toluene	<29	2500	2500	100	50-150	
Trichloroethene	<35	2500	2100	84	50-150	

Lab Batch #: 760431 **Sample:** 530853-1-BKS **Matrix:** Water
Date Analyzed: 05/28/2009 **Date Prepared:** 05/28/2009 **Analyst:** ANI
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

TCL VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<0.200	50.0	46.6	93	70-130	
Benzene	<0.160	50.0	54.8	110	80-120	
Chlorobenzene	<0.150	50.0	54.4	109	80-120	
Toluene	<0.140	50.0	52.7	105	75-120	
Trichloroethene	<0.190	50.0	54.1	108	70-125	

Lab Batch #: 760829 **Sample:** 531042-1-BKS **Matrix:** Water
Date Analyzed: 06/01/2009 **Date Prepared:** 06/01/2009 **Analyst:** ANI
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

TCL VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<0.98	50	46	92	70-130	
Benzene	<0.67	50	47	94	80-120	
Chlorobenzene	<0.59	50	43	86	80-120	
Toluene	<0.68	50	42	84	75-120	
Trichloroethene	<0.72	50	47	94	70-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 333113 **Project ID:** 08096

Lab Batch ID: 760431 **QC- Sample ID:** 333535-002 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 05/29/2009 **Date Prepared:** 05/28/2009 **Analyst:** ANI

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<1.00	50.0	44.9	90	50.0	49.7	99	10	70-130	20	
Benzene	767	50.0	830	126	50.0	980	426	17	80-120	20	X
Chlorobenzene	<1.00	50.0	42.2	84	50.0	51.5	103	20	80-120	20	
Toluene	664	50.0	720	112	50.0	850	372	17	75-120	20	X
Trichloroethene	<1.00	50.0	43.9	88	50.0	52.3	105	17	70-125	20	

Lab Batch ID: 760829 **QC- Sample ID:** 333939-004 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 06/01/2009 **Date Prepared:** 06/01/2009 **Analyst:** ANI

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<5.00	50.0	39.0	78	50.0	41.0	82	5	70-130	20	
Benzene	<5.00	50.0	44.0	88	50.0	46.0	92	4	80-120	20	
Chlorobenzene	<5.00	50.0	45.0	90	50.0	47.0	94	4	80-120	20	
Toluene	<5.00	50.0	44.0	88	50.0	46.0	92	4	75-120	20	
Trichloroethene	<5.00	50.0	45.0	90	50.0	46.0	92	2	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

XENCO Laboratories
Florida Testing Services, LLC

☐ 10200 USA Today Way, Miramar, FL 33025 954-431-4550
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☐ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

☐ Philadephia/New Jersey 610-955-5649
☐ South Carolina 803-543-8099 ☐ Other

Serial #: 248265 Page 1 of 2

Company-City: Winter Environmental
Phone: 404 588 3300
Lab Only: WO# 333113
Proj Name-Location: Fashion Care ☐ Previously done at XENCO
Project ID: 08096
TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.
Proj State: AL, FL (GA) LA, MS, NC, NJ, PA, SC, TN, TX, UT Other
Proj. Manager (PM): Len Diprima
e-Mail Results to ☑ PM or Fax No:
ldiprima@winter-environmental.com
Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O
Bill to:
Quote/Pricing: P.O No: 08096 ☐ Call for P.O.
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA (HSRA)
QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)
Sampler Name: Greg Muse Signature:

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs	VOCs PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs	FL PRO DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCL PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	VOCs see attached sheet	TAT ASAP 5h 12h 24h 48h 3d 5d (7d) 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Sample Clean-ups are pre-approved as needed	Remarks	
1	SB-34 (0-2')	5/18/09	1100		S		X	4													X	X					1
2	SB-34 (2.5-4.5')		1105		S		X	4													X	X					2
3	SB-34 (5-7')		1110		S		X	4													X	X					3
4	SB-35 (0-2')		1000		S		X	4													X	X					4
5	SB-35 (2.5-4.5')		1020		S		X	4													X	X					5
6	SB-35 (5-7)		1025		S		X	4													X	X					6
7	SB-36 (0-2')		1035		S		X	4													X	X					7
8	SB-36 (3-5')		1040		S		X	4													X	X					8
9	SB-36 (6-8')		1045		S		X	4													X	X					9
10	IDW851809		1400		W		X	2													X	X					10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) GTM	5/18/09 3:23	2) Dario Laguna	5/18/09 15:25
3)		4)	
5)		6)	

Total Containers per COC: 40 Cooler Temp: 2°C

Upon signings this COC you accept XENCO terms and Conditions unless otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved.

Preservatives: Various (**V**), HCl pH<2 (**H**), H2SO4 pH<2 (**S**), HNO3 pH<2 (**N**), Asbc Acid&NaOH (**A**), ZnAc&NaOH (**Z**), (Cool,<4C) (**C**), None (**NA**), See Label (**L**), Other (**O**) _____

Cont. Size: 4oz (**4**), 8oz (**8**), 32oz (**32**), 40ml VOA (**40**), 1L (**1**), 500ml (**5**), Tedlar Bag (**B**), Various (V), Other _____ **Cont. Type:** Glass Amb (**A**), Glass Clear (**C**), Plastic (**P**), Various (**V**)

Matrix: Air (**A**), Product (**P**), Solid(**S**), Water (**W**), Liquid (**L**)

Committed to Excellence in Service and Quality *www.xenco.com*

Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previoiusly negotiated under a fully executed client contract.

XENCO Laboratories

☐ 5757 N.W. 158th Street, Miami Lakes, Fl 33014 305-823-8500
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☐ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800
☐ Philadephia/New Jersey 610-955-5649

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 223310

Company-City: Winter Environmental
Phone: 404 588 3300
Lab Only: WO# 333113

Proj Name-Location: Fashion Care ☐ Previously done at XENCO
Project ID: 08096

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific.
It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Proj State: AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, TX, UT Other
Proj. Manager (PM): Len Diprima

Fax Results to ☐ PM or
e-mail to: Len
Fax No:

Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O Bill to:

Quote/Pricing:
P.O No: 08096 ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA

QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

LPST No.:

Sampler Name: Greg Muse
Signature:

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs BTEX-MTBE VOHs VOAs PP TCL Appdx 1 Appdx 2	Method: 8260 8021 624 524	PAHs: 8270 8100 8310 8270_SIM	TRPH by FL PRO DRO GRO MA EPH MA VPH	SVOCs: 8270 625 - (BN&AE) (TCL) (PP) (Appdx 2)	Pest. (8081 / 608) PCBs (8082 / 608) Herb. (8151 / 615)	EDB / DBCP (8011 / 504)	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	Metals Methods: 6020 / 6010 / 200.8 / 7470 / 7471	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	FL Preburn: Virgin Non-Virgin	+ VOCs see attached sheet							TAT ASAP 5h 12h 24h 48h 3d 5d (7d) 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Remarks: Sample Clean-ups are pre-approved as needed			Rcv by: Date Addn: From:
1	TRIP BLANK	5/18/09	—		W			2															+							X							1
2																																					2
3																																					3
4																																					4
5																																					5
6																																					6
7																																					7
8																																					8
9																																					9
10																																					10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) GTM	5/18/09 3:25	2) David Lagmar	5/18/09 15:25
3)		4)	
5)		6)	

Total Containers per COC: 40 Cooler Temp: 2°C

All XENCO Standard Terms and Conditions Apply.

Rush Charges are Pre-Approved upon Requesting them.

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O) _____

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tedlar Bag (B), Wipe (W), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Other (O) _____

Matrix: Air (A), Product (P), Solid(S), Water (W)

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WO # 333113

Laboratory Analysis List
Fashion Care/Executive Care Site
Winter Environmental Project No. 08096

- VOCs (soil):
  - Tetrachloroethene (PCE)
  - cis-1, 2-Dichloroethene
  - trans-1, 2-Dichloroethene
  - 1, 1-Dichloroethene (1,1-DCE)
  - Trichloroethene (TCE)
  - Vinyl Chloride (VC)
  - Benzene
  - Toluene
  - Ethylbenzene
  - Total Xylenes
  - Cyclohexane
  - Isopropylbenzene
  - 1, 1-Dichloroethane
  - Acetone
- VOCs (groundwater): TCL List
- BOD & COD (groundwater)
- Anions (groundwater): sodium, chlorides, SO4, dissolved Iron

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: WINTER ENVIRONMENTAL.

Date/ Time: 05/18/09 15:25

Lab ID # : 333113

Initials: DL

Sample Receipt Checklist

#1	Temperature of cooler?			2	°C
#2	Shipping container in good condition?	YES	No	None	
#3	Samples received on ice?	YES	No	N/A	Blue/Water
#4	Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	N/A	
#6	Chain of Custody present?	YES	No		
#7	Sample instructions complete of Chain of Custody?	YES	No		
#8	Any missing/extra samples?	Yes	NO		
#9	Chain of Custody signed when relinquished/ received?	YES	No		
#10	Chain of Custody agrees with sample label(s)?	YES	No		
#11	Container label(s) legible and intact?	YES	No		
#12	Sample matrix/ properties agree with Chain of Custody?	YES	No		
#13	Samples in proper container/ bottle?	YES	No		
#14	Samples properly preserved?	YES	No	N/A	
#15	Sample container(s) intact?	YES	No		
#16	Sufficient sample amount for indicated test(s)?	YES	No		
#17	All samples received within sufficient hold time?	YES	No		
#18	Subcontract of sample(s)?	Yes	NO		
#19	VOC samples have zero headspace?	YES	No	N/A	

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

H&P Mobile Geochemistry Inc.

05 June 2011

Mr. Jim Fineis
Atlas Geo-Sampling Company
120 Nottaway Lane
Alpharetta, GA 30009

H&P Project: AG052511-10
Client Project: Winter - Fashion Care

Dear Mr. Jim Fineis:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 25-May-11 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody

Unless otherwise noted, all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

for

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry, Inc. operates under CA Environmental Lab Accreditation Program Numbers 2579, 2740, 2741, 2742, 2743, 2745 and 2754. National Environmental Laboratory Accreditation Conference (NELAC) Standards Lab #11845

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1855 Coronado Avenue, Signal Hill, California 90755
www.HandPmg.com | 1-800-834-9888

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Atlas Geo-Sampling Company	Project: AG052511-10	
120 Nottaway Lane	Project Number: Winter - Fashion Care	Reported:
Alpharetta, GA 30009	Project Manager: Mr. Jim Fineis	05-Jun-11 12:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VS-1	E105088-01	Vapor	19-May-11	25-May-11
VS-2	E105088-02	Vapor	19-May-11	25-May-11

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Atlas Geo-Sampling Company	Project: AG052511-10	
120 Nottaway Lane	Project Number: Winter - Fashion Care	Reported:
Alpharetta, GA 30009	Project Manager: Mr. Jim Fineis	05-Jun-11 12:20

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VS-1 (E105088-01) Vapor Sampled: 19-May-11 Received: 25-May-11									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EE13101	31-May-11	31-May-11	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.7	"	"	"	"	"	"	
Acetone	**240**	24	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	**43**	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	**12**	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	**57**	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	**9.2**	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	**130**	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	**15**	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	**21**	4.4	"	"	"	"	"	"	
m,p-Xylene	**46**	8.8	"	"	"	"	"	"	
Styrene	**7.4**	4.3	"	"	"	"	"	"	

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Atlas Geo-Sampling Company	Project: AG052511-10	
120 Nottaway Lane	Project Number: Winter - Fashion Care	Reported:
Alpharetta, GA 30009	Project Manager: Mr. Jim Fineis	05-Jun-11 12:20

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VS-1 (E105088-01) Vapor Sampled: 19-May-11 Received: 25-May-11									
o-Xylene	**16**	4.4	ug/m3	1	EE13101	31-May-11	31-May-11	EPA TO-15	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	**5.2**	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**6.2**	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**21**	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	7.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	11	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*77-127*		"	"	"	"	
VS-2 (E105088-02) Vapor Sampled: 19-May-11 Received: 25-May-11									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EE13101	31-May-11	31-May-11	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.7	"	"	"	"	"	"	
Acetone	**210**	24	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	**9.1**	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	

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Atlas Geo-Sampling Company	Project: AG052511-10	
120 Nottaway Lane	Project Number: Winter - Fashion Care	Reported:
Alpharetta, GA 30009	Project Manager: Mr. Jim Fineis	05-Jun-11 12:20

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VS-2 (E105088-02) Vapor Sampled: 19-May-11 Received: 25-May-11									
Trichloroethene	ND	5.5	ug/m3	1	EE13101	31-May-11	31-May-11	EPA TO-15	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	**48**	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	**10**	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	**13**	4.4	"	"	"	"	"	"	
m,p-Xylene	**38**	8.8	"	"	"	"	"	"	
Styrene	**6.5**	4.3	"	"	"	"	"	"	
o-Xylene	**15**	4.4	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**5.7**	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**23**	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	7.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	11	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*99.2 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*77-127*		"	"	"	"	

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120 Nottaway Lane	Project Number: Winter - Fashion Care	Reported:
Alpharetta, GA 30009	Project Manager: Mr. Jim Fineis	05-Jun-11 12:20

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE13101 - TO-15										
Blank (EE13101-BLK1)				Prepared & Analyzed: 31-May-11						
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3							
Chloromethane	ND	2.1	"							
Dichlorotetrafluoroethane (F114)	ND	7.1	"							
Vinyl chloride	ND	2.6	"							
Bromomethane	ND	16	"							
Chloroethane	ND	8.0	"							
Trichlorofluoromethane (F11)	ND	5.7	"							
Acetone	ND	24	"							
1,1-Dichloroethene	ND	4.0	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"							
Methylene chloride (Dichloromethane)	ND	3.5	"							
Carbon disulfide	ND	6.3	"							
trans-1,2-Dichloroethene	ND	8.0	"							
1,1-Dichloroethane	ND	4.1	"							
2-Butanone (MEK)	ND	30	"							
cis-1,2-Dichloroethene	ND	4.0	"							
Chloroform	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.5	"							
1,2-Dichloroethane (EDC)	ND	4.1	"							
Benzene	ND	3.2	"							
Carbon tetrachloride	ND	6.4	"							
Trichloroethene	ND	5.5	"							
1,2-Dichloropropane	ND	9.4	"							
Bromodichloromethane	ND	6.8	"							
cis-1,3-Dichloropropene	ND	4.6	"							
4-Methyl-2-pentanone (MIBK)	ND	8.3	"							
trans-1,3-Dichloropropene	ND	4.6	"							
Toluene	ND	3.8	"							
1,1,2-Trichloroethane	ND	5.5	"							
2-Hexanone (MBK)	ND	8.3	"							
Dibromochloromethane	ND	8.6	"							
Tetrachloroethene	ND	6.9	"							
1,2-Dibromoethane (EDB)	ND	7.8	"							
1,1,1,2-Tetrachloroethane	ND	7.0	"							

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Atlas Geo-Sampling Company	Project: AG052511-10	
120 Nottaway Lane	Project Number: Winter - Fashion Care	Reported:
Alpharetta, GA 30009	Project Manager: Mr. Jim Fineis	05-Jun-11 12:20

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE13101 - TO-15										
Blank (EE13101-BLK1)				Prepared & Analyzed: 31-May-11						
Chlorobenzene	ND	4.7	ug/m3							
Ethylbenzene	ND	4.4	"							
m,p-Xylene	ND	8.8	"							
Styrene	ND	4.3	"							
o-Xylene	ND	4.4	"							
Bromoform	ND	10	"							
1,1,2,2-Tetrachloroethane	ND	7.0	"							
4-Ethyltoluene	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	12	"							
1,4-Dichlorobenzene	ND	12	"							
1,2-Dichlorobenzene	ND	12	"							
1,2,4-Trichlorobenzene	ND	7.5	"							
Hexachlorobutadiene	ND	11	"							
Surrogate: 1,2-Dichloroethane-d4	*222*		*"*	*214*		*103*	*76-134*			
Surrogate: Toluene-d8	*203*		*"*	*207*		*98.0*	*78-125*			
Surrogate: 4-Bromofluorobenzene	*359*		*"*	*365*		*98.6*	*77-127*			
LCS (EE13101-BS1)				Prepared & Analyzed: 31-May-11						
Dichlorodifluoromethane (F12)	100	5.0	ug/m3	101		102	65-135			
Vinyl chloride	50	2.6	"	52.0		97.1	65-135			
Chloroethane	59	8.0	"	53.6		111	65-135			
Trichlorofluoromethane (F11)	140	5.7	"	113		121	65-135			
1,1-Dichloroethene	76	4.0	"	80.8		93.6	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	160	7.7	"	155		106	65-135			
Methylene chloride (Dichloromethane)	64	3.5	"	70.8		91.1	65-135			
trans-1,2-Dichloroethene	81	8.0	"	80.8		99.6	65-135			
1,1-Dichloroethane	82	4.1	"	82.4		100	65-135			
cis-1,2-Dichloroethene	75	4.0	"	80.0		94.3	65-135			
Chloroform	110	5.0	"	99.2		107	65-135			
1,1,1-Trichloroethane	120	5.5	"	111		106	65-135			
1,2-Dichloroethane (EDC)	87	4.1	"	82.4		105	65-135			

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Atlas Geo-Sampling Company	Project: AG052511-10	
120 Nottaway Lane	Project Number: Winter - Fashion Care	Reported:
Alpharetta, GA 30009	Project Manager: Mr. Jim Fineis	05-Jun-11 12:20

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE13101 - TO-15										
LCS (EE13101-BS1)				Prepared & Analyzed: 31-May-11						
Benzene	63	3.2	ug/m3	64.8		97.1	65-135			
Carbon tetrachloride	140	6.4	"	128		112	65-135			
Trichloroethene	120	5.5	"	110		109	65-135			
Toluene	75	3.8	"	76.8		97.0	65-135			
1,1,2-Trichloroethane	120	5.5	"	111		105	65-135			
Tetrachloroethene	140	6.9	"	138		101	65-135			
1,1,1,2-Tetrachloroethane	180	7.0	"	140		127	65-135			
Ethylbenzene	99	4.4	"	88.4		112	65-135			
m,p-Xylene	210	8.8	"	177		119	65-135			
o-Xylene	110	4.4	"	88.4		124	65-135			
1,1,2,2-Tetrachloroethane	190	7.0	"	140		139	65-135			QL-1H
Surrogate: 1,2-Dichloroethane-d4	*220*		*"*	*214*		*103*	*76-134*			
Surrogate: Toluene-d8	*202*		*"*	*207*		*97.5*	*78-125*			
Surrogate: 4-Bromofluorobenzene	*391*		*"*	*365*		*107*	*77-127*			
LCS Dup (EE13101-BSD1)				Prepared & Analyzed: 31-May-11						
Dichlorodifluoromethane (F12)	110	5.0	ug/m3	101		105	65-135	2.69	35	
Vinyl chloride	52	2.6	"	52.0		100	65-135	3.31	35	
Chloroethane	57	8.0	"	53.6		106	65-135	4.67	35	
Trichlorofluoromethane (F11)	130	5.7	"	113		115	65-135	5.47	35	
1,1-Dichloroethene	76	4.0	"	80.8		93.8	65-135	0.159	35	
1,1,2-Trichlorotrifluoroethane (F113)	160	7.7	"	155		106	65-135	0.0941	35	
Methylene chloride (Dichloromethane)	64	3.5	"	70.8		90.9	65-135	0.164	35	
trans-1,2-Dichloroethene	79	8.0	"	80.8		98.2	65-135	1.46	35	
1,1-Dichloroethane	83	4.1	"	82.4		101	65-135	1.09	35	
cis-1,2-Dichloroethene	72	4.0	"	80.0		90.5	65-135	4.13	35	
Chloroform	100	5.0	"	99.2		105	65-135	2.36	35	
1,1,1-Trichloroethane	110	5.5	"	111		102	65-135	4.34	35	
1,2-Dichloroethane (EDC)	82	4.1	"	82.4		99.3	65-135	5.99	35	
Benzene	64	3.2	"	64.8		98.2	65-135	1.18	35	
Carbon tetrachloride	140	6.4	"	128		107	65-135	4.60	35	
Trichloroethene	120	5.5	"	110		106	65-135	3.20	35	
Toluene	73	3.8	"	76.8		95.3	65-135	1.76	35	

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Atlas Geo-Sampling Company	Project: AG052511-10	
120 Nottaway Lane	Project Number: Winter - Fashion Care	Reported:
Alpharetta, GA 30009	Project Manager: Mr. Jim Fineis	05-Jun-11 12:20

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE13101 - TO-15										
LCS Dup (EE13101-BSD1)				Prepared & Analyzed: 31-May-11						
1,1,2-Trichloroethane	120	5.5	ug/m3	111		106	65-135	0.797	35	
Tetrachloroethene	140	6.9	"	138		98.2	65-135	3.09	35	
1,1,1,2-Tetrachloroethane	170	7.0	"	140		120	65-135	5.77	35	
Ethylbenzene	97	4.4	"	88.4		110	65-135	2.20	35	
m,p-Xylene	210	8.8	"	177		117	65-135	1.43	35	
o-Xylene	110	4.4	"	88.4		121	65-135	2.97	35	
1,1,2,2-Tetrachloroethane	190	7.0	"	140		137	65-135	1.63	35	QL-1H
Surrogate: 1,2-Dichloroethane-d4	*212*		*"*	*214*		*98.8*	*76-134*			
Surrogate: Toluene-d8	*200*		*"*	*207*		*96.6*	*78-125*			
Surrogate: 4-Bromofluorobenzene	*384*		*"*	*365*		*105*	*77-127*			

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Atlas Geo-Sampling Company	Project: AG052511-10	
120 Nottaway Lane	Project Number: Winter - Fashion Care	Reported:
Alpharetta, GA 30009	Project Manager: Mr. Jim Fineis	05-Jun-11 12:20

Notes and Definitions

QL-1H	The LCS and/or LCSD recoveries fell above the established control specifications for this analyte. Any result for this compound is qualified and should be considered baised high.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Atlas Geo-Sampling Company	Project: AG052511-10	
120 Nottaway Lane	Project Number: Winter - Fashion Care	Reported:
Alpharetta, GA 30009	Project Manager: Mr. Jim Fineis	05-Jun-11 12:20

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Laboratory in conformance with the Environmental Laboratory Accreditation Program (CA) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste for the following methods:

Certificate# 2741, 2743, 2579, 2754 & 2740 approved for EPA 8260 and LUFT GC/MS
Certificate# 2742, 2745, & 2741 approved for LUFT
Certificate# 2745 & 2742 approved for EPA 418.1

H&P Mobile Geochemistry, Inc. is approved as an Environmental Laboratory in conformance with the National Environmental Accreditation Conference Standards for the category Environmental Analysis Air and Emissions for the following analytes and methods:

1,2,4-Trichlorobenzene by EPA TO-15 & TO-14A
Hexachlorobutadiene by EPA TO-15 & TO-14A
1,2,4-Trimethylbenzene by EPA TO -14A
1,2-Dichlorobenzene by EPA TO-15 & TO-14A
1,3,5-Trimethylbenzene by EPA TO -14A
1,4-Dichlorobenzene by EPA TO-15 & TO-14A
Benzene by EPA TO-15 & TO-14A
Chlorobenzene by EPA TO-15 & TO-14A
Ethyl benzene by EPA TO-15 & TO-14A
Styrene by EPA TO-15 & TO-14A
Toluene by EPA TO-15 & TO-14A
Total Xylenes by EPA TO-15 & TO-14A
1,1,1-Trichloroethane by EPA TO-15 & TO-14A
1,1,2,2-Tetrachloroethane by EPA TO-15 & TO-14A
1,1,2-Trichloroethane by EPA TO-15 & TO-14A
1,1-Dichloroethane by EPA TO-15 & TO-14A
1,1-Dichloroethene by EPA TO-15 & TO-14A
1,2-Dichloroethane by EPA TO-15 & TO-14A
1,2-Dichloropropane by EPA TO-15 & TO-14A
Bromoform by EPA TO-15
Bromomethane by EPA TO-15 & TO-14A
Carbon tetrachloride by EPA TO-15 & TO-14A
Chloroethane by EPA TO-15
Chloroform by EPA TO-15 & TO-14A
Chloromethane by EPA TO-15 & TO-14A
cis-1,2-Dichloroethene by EPA TO-15
cis-1,2-Dichloropropene by EPA TO-15 & TO-14A
Methylene chloride by EPA TO -15 & TO-14A
Tetrachloroethane by EPA TO-15 & TO-14A
trans-1,2-Dichloroethene by EPA TO-15
trans-1,2-Dichloropropene by EPA TO-15 & TO-14A
Trichloroethene by EPA TO-15 & TO-14A
Vinyl chloride by EPA TO -15 & TO-14A
2-Butanone by EPA TO-15
4-Methyl-2-Pentanone by EPA TO-15
Hexane by EPA TO-15
Methyl tert-butyl ether by EPA TO-15
Vinyl acetate by EPA TO-15

This certification applies to samples analyzed in summa canisters.

Chain of Custody Record

H&P Mobile Geochemistry Inc.

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☐ 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date:
H&P Project # AG052511-10
Outside Lab:

Client: Atlas Geo Sampling
Address: 120 Nottaway Lane, Alpharetta, GA 30009
Email: jimfinels@atlas-geo.com
Collector: Jim Finels
Client Project # Winter - Fashion Care
Location: Fashion Care Cleaners
Phone: 770 883 3372
Fax:
Page: 1 of 1
Project Contact: JIM FINELS
Turn around time: STANDARD.

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☑ No ☐

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☑ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No ☑ N/A
Temperature: RT

Special Instructions:
UPS TRACK # 1Z 134 838 13 2855 1218

Lab Work Order # E 105088

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	8260B Full List	8260B ☐ BTEX/OXY ☐ TPH gas	8015M TPH ☐ g ☐ d ☐ ext	418.1 TRPH	VOC's: Full List ☑ 8260B ☑ TO-15	VOC's: Short List/DTSC ☐ 8260B ☐ TO-15	VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	Naphthalene ☐ 8260B ☐ TO-15	Oxygenates ☐ 8260B ☐ TO-15	TPHv gas ☐ 8260B ☐ TO-15	Ketones ☐ 8260B ☐ TO-15	Other ____ ☐ 8260B ☐ TO-15	Leak Check Compound ☐ 1,1 DFA ☐ OTHER	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2	CAN #	VAC #
								SOIL/GW				SOIL VAPOR/AIR ANALYSIS												
VS-1	VS-1	60 ml	548	5-17-11	SV	Summa	1					✓											368-28
VS-2	VS-2	60 ml	521	5-17-11	SV	Summa	1					✓											148-29

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
[signature]	Atlas Geo			5-24-11	840 AM
Relinquished by: (Signature)	(company)	Received by: (Signature) [signature]	(company) H&P	5-25-11	0930
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
Tel: (865)291-3000

TestAmerica Job ID: 140-2355-1
Client Project/Site: Fashion Care - 226203.00

For:
Woodard & Curran Inc
2055 Sugarloaf Circle
Suite 175
Duluth, Georgia 30097

Attn: Bryan Maurer

Ryan Henry

Authorized for release by:
12/4/2014 4:52:35 PM

Ryan Henry, Project Manager I
(865)291-3000
william.henry@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 140-2355-1

Laboratory: TestAmerica Knoxville

Narrative

Job Narrative
140-2355-1

Comments
No additional comments.

Receipt
The samples were received on 11/21/2014 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Air - GC/MS VOA
Method(s) TO 14A, TO 15 LL, TO-14A, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified “zero air” as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of “zero air” by TestAmerica Knoxville.

No additional analytical or quality issues were noted.

Detection Summary

Client: Woodard & Curran Inc
Project/Site: Fashion Care - 226203.00

TestAmerica Job ID: 140-2355-1

Client Sample ID: SV-1 — Lab Sample ID: 140-2355-1

No Detections.

Client Sample ID: SV-2 — Lab Sample ID: 140-2355-2

No Detections.

Client Sample ID: SV-3 — Lab Sample ID: 140-2355-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Woodard & Curran Inc
Project/Site: Fashion Care - 226203.00

TestAmerica Job ID: 140-2355-1

Client Sample ID: SV-1

Lab Sample ID: 140-2355-1

Date Collected: 11/19/14 16:18
Matrix: Air
Date Received: 11/21/14 09:10
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0		ppb v/v			11/25/14 02:08	1
1,1,2,2-Tetrachloroethane	ND		2.0		ppb v/v			11/25/14 02:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0		ppb v/v			11/25/14 02:08	1
1,1,2-Trichloroethane	ND		2.0		ppb v/v			11/25/14 02:08	1
1,1-Dichloroethane	ND		2.0		ppb v/v			11/25/14 02:08	1
1,1-Dichloroethene	ND		2.0		ppb v/v			11/25/14 02:08	1
1,2,4-Trichlorobenzene	ND		10		ppb v/v			11/25/14 02:08	1
1,2,4-Trimethylbenzene	ND		2.0		ppb v/v			11/25/14 02:08	1
1,2-Dibromoethane (EDB)	ND		2.0		ppb v/v			11/25/14 02:08	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.0		ppb v/v			11/25/14 02:08	1
1,2-Dichlorobenzene	ND		2.0		ppb v/v			11/25/14 02:08	1
1,2-Dichloroethane	ND		2.0		ppb v/v			11/25/14 02:08	1
1,2-Dichloropropane	ND		2.0		ppb v/v			11/25/14 02:08	1
1,3,5-Trimethylbenzene	ND		2.0		ppb v/v			11/25/14 02:08	1
1,3-Dichlorobenzene	ND		2.0		ppb v/v			11/25/14 02:08	1
1,4-Dichlorobenzene	ND		2.0		ppb v/v			11/25/14 02:08	1
Benzene	ND		2.0		ppb v/v			11/25/14 02:08	1
Benzyl chloride	ND		4.0		ppb v/v			11/25/14 02:08	1
Bromomethane	ND		2.0		ppb v/v			11/25/14 02:08	1
Carbon tetrachloride	ND		2.0		ppb v/v			11/25/14 02:08	1
Chlorobenzene	ND		2.0		ppb v/v			11/25/14 02:08	1
Chloroethane	ND		2.0		ppb v/v			11/25/14 02:08	1
Chloroform	ND		2.0		ppb v/v			11/25/14 02:08	1
Chloromethane	ND		5.0		ppb v/v			11/25/14 02:08	1
cis-1,2-Dichloroethene	ND		2.0		ppb v/v			11/25/14 02:08	1
cis-1,3-Dichloropropene	ND		2.0		ppb v/v			11/25/14 02:08	1
Dichlorodifluoromethane	ND		2.0		ppb v/v			11/25/14 02:08	1
Ethylbenzene	ND		2.0		ppb v/v			11/25/14 02:08	1
Hexachlorobutadiene	ND		10		ppb v/v			11/25/14 02:08	1
Methyl tert-butyl ether	ND		10		ppb v/v			11/25/14 02:08	1
Methylene Chloride	ND		5.0		ppb v/v			11/25/14 02:08	1
m-Xylene & p-Xylene	ND		2.0		ppb v/v			11/25/14 02:08	1
Naphthalene	ND		5.0		ppb v/v			11/25/14 02:08	1
o-Xylene	ND		2.0		ppb v/v			11/25/14 02:08	1
Styrene	ND		2.0		ppb v/v			11/25/14 02:08	1
Tetrachloroethene	ND		2.0		ppb v/v			11/25/14 02:08	1
Toluene	ND		2.0		ppb v/v			11/25/14 02:08	1
trans-1,3-Dichloropropene	ND		2.0		ppb v/v			11/25/14 02:08	1
Trichloroethene	ND		2.0		ppb v/v			11/25/14 02:08	1
Trichlorofluoromethane	ND		2.0		ppb v/v			11/25/14 02:08	1
Vinyl chloride	ND		2.0		ppb v/v			11/25/14 02:08	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		11		ug/m3			11/25/14 02:08	1
1,1,2,2-Tetrachloroethane	ND		14		ug/m3			11/25/14 02:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		15		ug/m3			11/25/14 02:08	1
1,1,2-Trichloroethane	ND		11		ug/m3			11/25/14 02:08	1
1,1-Dichloroethane	ND		8.1		ug/m3			11/25/14 02:08	1
1,1-Dichloroethene	ND		7.9		ug/m3			11/25/14 02:08	1

Client Sample Results

Client: Woodard & Curran Inc
Project/Site: Fashion Care - 226203.00

TestAmerica Job ID: 140-2355-1

Client Sample ID: SV-1

Lab Sample ID: 140-2355-1
Matrix: Air

Date Collected: 11/19/14 16:18
Date Received: 11/21/14 09:10
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		74		ug/m3			11/25/14 02:08	1
1,2,4-Trimethylbenzene	ND		9.8		ug/m3			11/25/14 02:08	1
1,2-Dibromoethane (EDB)	ND		15		ug/m3			11/25/14 02:08	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		14		ug/m3			11/25/14 02:08	1
1,2-Dichlorobenzene	ND		12		ug/m3			11/25/14 02:08	1
1,2-Dichloroethane	ND		8.1		ug/m3			11/25/14 02:08	1
1,2-Dichloropropane	ND		9.2		ug/m3			11/25/14 02:08	1
1,3,5-Trimethylbenzene	ND		9.8		ug/m3			11/25/14 02:08	1
1,3-Dichlorobenzene	ND		12		ug/m3			11/25/14 02:08	1
1,4-Dichlorobenzene	ND		12		ug/m3			11/25/14 02:08	1
Benzene	ND		6.4		ug/m3			11/25/14 02:08	1
Benzyl chloride	ND		21		ug/m3			11/25/14 02:08	1
Bromomethane	ND		7.8		ug/m3			11/25/14 02:08	1
Carbon tetrachloride	ND		13		ug/m3			11/25/14 02:08	1
Chlorobenzene	ND		9.2		ug/m3			11/25/14 02:08	1
Chloroethane	ND		5.3		ug/m3			11/25/14 02:08	1
Chloroform	ND		9.8		ug/m3			11/25/14 02:08	1
Chloromethane	ND		10		ug/m3			11/25/14 02:08	1
cis-1,2-Dichloroethene	ND		7.9		ug/m3			11/25/14 02:08	1
cis-1,3-Dichloropropene	ND		9.1		ug/m3			11/25/14 02:08	1
Dichlorodifluoromethane	ND		9.9		ug/m3			11/25/14 02:08	1
Ethylbenzene	ND		8.7		ug/m3			11/25/14 02:08	1
Hexachlorobutadiene	ND		110		ug/m3			11/25/14 02:08	1
Methyl tert-butyl ether	ND		36		ug/m3			11/25/14 02:08	1
Methylene Chloride	ND		17		ug/m3			11/25/14 02:08	1
m-Xylene & p-Xylene	ND		8.7		ug/m3			11/25/14 02:08	1
Naphthalene	ND		26		ug/m3			11/25/14 02:08	1
o-Xylene	ND		8.7		ug/m3			11/25/14 02:08	1
Styrene	ND		8.5		ug/m3			11/25/14 02:08	1
Tetrachloroethene	ND		14		ug/m3			11/25/14 02:08	1
Toluene	ND		7.5		ug/m3			11/25/14 02:08	1
trans-1,3-Dichloropropene	ND		9.1		ug/m3			11/25/14 02:08	1
Trichloroethene	ND		11		ug/m3			11/25/14 02:08	1
Trichlorofluoromethane	ND		11		ug/m3			11/25/14 02:08	1
Vinyl chloride	ND		5.1		ug/m3			11/25/14 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*11/25/14 02:08*	*1*

Client Sample ID: SV-2

Lab Sample ID: 140-2355-2
Matrix: Air

Date Collected: 11/19/14 16:25
Date Received: 11/21/14 09:10
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0		ppb v/v			11/25/14 02:50	1
1,1,2,2-Tetrachloroethane	ND		2.0		ppb v/v			11/25/14 02:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0		ppb v/v			11/25/14 02:50	1

Client Sample ID: SV-2

Lab Sample ID: 140-2355-2

Date Collected: 11/19/14 16:25

Matrix: Air

Date Received: 11/21/14 09:10

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		2.0		ppb v/v			11/25/14 02:50	1
1,1-Dichloroethane	ND		2.0		ppb v/v			11/25/14 02:50	1
1,1-Dichloroethene	ND		2.0		ppb v/v			11/25/14 02:50	1
1,2,4-Trichlorobenzene	ND		10		ppb v/v			11/25/14 02:50	1
1,2,4-Trimethylbenzene	ND		2.0		ppb v/v			11/25/14 02:50	1
1,2-Dibromoethane (EDB)	ND		2.0		ppb v/v			11/25/14 02:50	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.0		ppb v/v			11/25/14 02:50	1
1,2-Dichlorobenzene	ND		2.0		ppb v/v			11/25/14 02:50	1
1,2-Dichloroethane	ND		2.0		ppb v/v			11/25/14 02:50	1
1,2-Dichloropropane	ND		2.0		ppb v/v			11/25/14 02:50	1
1,3,5-Trimethylbenzene	ND		2.0		ppb v/v			11/25/14 02:50	1
1,3-Dichlorobenzene	ND		2.0		ppb v/v			11/25/14 02:50	1
1,4-Dichlorobenzene	ND		2.0		ppb v/v			11/25/14 02:50	1
Benzene	ND		2.0		ppb v/v			11/25/14 02:50	1
Benzyl chloride	ND		4.0		ppb v/v			11/25/14 02:50	1
Bromomethane	ND		2.0		ppb v/v			11/25/14 02:50	1
Carbon tetrachloride	ND		2.0		ppb v/v			11/25/14 02:50	1
Chlorobenzene	ND		2.0		ppb v/v			11/25/14 02:50	1
Chloroethane	ND		2.0		ppb v/v			11/25/14 02:50	1
Chloroform	ND		2.0		ppb v/v			11/25/14 02:50	1
Chloromethane	ND		5.0		ppb v/v			11/25/14 02:50	1
cis-1,2-Dichloroethene	ND		2.0		ppb v/v			11/25/14 02:50	1
cis-1,3-Dichloropropene	ND		2.0		ppb v/v			11/25/14 02:50	1
Dichlorodifluoromethane	ND		2.0		ppb v/v			11/25/14 02:50	1
Ethylbenzene	ND		2.0		ppb v/v			11/25/14 02:50	1
Hexachlorobutadiene	ND		10		ppb v/v			11/25/14 02:50	1
Methyl tert-butyl ether	ND		10		ppb v/v			11/25/14 02:50	1
Methylene Chloride	ND		5.0		ppb v/v			11/25/14 02:50	1
m-Xylene & p-Xylene	ND		2.0		ppb v/v			11/25/14 02:50	1
Naphthalene	ND		5.0		ppb v/v			11/25/14 02:50	1
o-Xylene	ND		2.0		ppb v/v			11/25/14 02:50	1
Styrene	ND		2.0		ppb v/v			11/25/14 02:50	1
Tetrachloroethene	ND		2.0		ppb v/v			11/25/14 02:50	1
Toluene	ND		2.0		ppb v/v			11/25/14 02:50	1
trans-1,3-Dichloropropene	ND		2.0		ppb v/v			11/25/14 02:50	1
Trichloroethene	ND		2.0		ppb v/v			11/25/14 02:50	1
Trichlorofluoromethane	ND		2.0		ppb v/v			11/25/14 02:50	1
Vinyl chloride	ND		2.0		ppb v/v			11/25/14 02:50	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		11		ug/m3			11/25/14 02:50	1
1,1,2,2-Tetrachloroethane	ND		14		ug/m3			11/25/14 02:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		15		ug/m3			11/25/14 02:50	1
1,1,2-Trichloroethane	ND		11		ug/m3			11/25/14 02:50	1
1,1-Dichloroethane	ND		8.1		ug/m3			11/25/14 02:50	1
1,1-Dichloroethene	ND		7.9		ug/m3			11/25/14 02:50	1
1,2,4-Trichlorobenzene	ND		74		ug/m3			11/25/14 02:50	1
1,2,4-Trimethylbenzene	ND		9.8		ug/m3			11/25/14 02:50	1
1,2-Dibromoethane (EDB)	ND		15		ug/m3			11/25/14 02:50	1

Client Sample ID: SV-2

Lab Sample ID: 140-2355-2

Date Collected: 11/19/14 16:25

Matrix: Air

Date Received: 11/21/14 09:10

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		14		ug/m3			11/25/14 02:50	1
1,2-Dichlorobenzene	ND		12		ug/m3			11/25/14 02:50	1
1,2-Dichloroethane	ND		8.1		ug/m3			11/25/14 02:50	1
1,2-Dichloropropane	ND		9.2		ug/m3			11/25/14 02:50	1
1,3,5-Trimethylbenzene	ND		9.8		ug/m3			11/25/14 02:50	1
1,3-Dichlorobenzene	ND		12		ug/m3			11/25/14 02:50	1
1,4-Dichlorobenzene	ND		12		ug/m3			11/25/14 02:50	1
Benzene	ND		6.4		ug/m3			11/25/14 02:50	1
Benzyl chloride	ND		21		ug/m3			11/25/14 02:50	1
Bromomethane	ND		7.8		ug/m3			11/25/14 02:50	1
Carbon tetrachloride	ND		13		ug/m3			11/25/14 02:50	1
Chlorobenzene	ND		9.2		ug/m3			11/25/14 02:50	1
Chloroethane	ND		5.3		ug/m3			11/25/14 02:50	1
Chloroform	ND		9.8		ug/m3			11/25/14 02:50	1
Chloromethane	ND		10		ug/m3			11/25/14 02:50	1
cis-1,2-Dichloroethene	ND		7.9		ug/m3			11/25/14 02:50	1
cis-1,3-Dichloropropene	ND		9.1		ug/m3			11/25/14 02:50	1
Dichlorodifluoromethane	ND		9.9		ug/m3			11/25/14 02:50	1
Ethylbenzene	ND		8.7		ug/m3			11/25/14 02:50	1
Hexachlorobutadiene	ND		110		ug/m3			11/25/14 02:50	1
Methyl tert-butyl ether	ND		36		ug/m3			11/25/14 02:50	1
Methylene Chloride	ND		17		ug/m3			11/25/14 02:50	1
m-Xylene & p-Xylene	ND		8.7		ug/m3			11/25/14 02:50	1
Naphthalene	ND		26		ug/m3			11/25/14 02:50	1
o-Xylene	ND		8.7		ug/m3			11/25/14 02:50	1
Styrene	ND		8.5		ug/m3			11/25/14 02:50	1
Tetrachloroethene	ND		14		ug/m3			11/25/14 02:50	1
Toluene	ND		7.5		ug/m3			11/25/14 02:50	1
trans-1,3-Dichloropropene	ND		9.1		ug/m3			11/25/14 02:50	1
Trichloroethene	ND		11		ug/m3			11/25/14 02:50	1
Trichlorofluoromethane	ND		11		ug/m3			11/25/14 02:50	1
Vinyl chloride	ND		5.1		ug/m3			11/25/14 02:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*11/25/14 02:50*	*1*

Client Sample ID: SV-3

Lab Sample ID: 140-2355-3

Date Collected: 11/19/14 17:08

Matrix: Air

Date Received: 11/21/14 09:10

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0		ppb v/v			11/25/14 03:33	1
1,1,2,2-Tetrachloroethane	ND		2.0		ppb v/v			11/25/14 03:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0		ppb v/v			11/25/14 03:33	1
1,1,2-Trichloroethane	ND		2.0		ppb v/v			11/25/14 03:33	1
1,1-Dichloroethane	ND		2.0		ppb v/v			11/25/14 03:33	1
1,1-Dichloroethene	ND		2.0		ppb v/v			11/25/14 03:33	1

Client Sample ID: SV-3

Lab Sample ID: 140-2355-3

Date Collected: 11/19/14 17:08

Matrix: Air

Date Received: 11/21/14 09:10

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10		ppb v/v			11/25/14 03:33	1
1,2,4-Trimethylbenzene	ND		2.0		ppb v/v			11/25/14 03:33	1
1,2-Dibromoethane (EDB)	ND		2.0		ppb v/v			11/25/14 03:33	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.0		ppb v/v			11/25/14 03:33	1
1,2-Dichlorobenzene	ND		2.0		ppb v/v			11/25/14 03:33	1
1,2-Dichloroethane	ND		2.0		ppb v/v			11/25/14 03:33	1
1,2-Dichloropropane	ND		2.0		ppb v/v			11/25/14 03:33	1
1,3,5-Trimethylbenzene	ND		2.0		ppb v/v			11/25/14 03:33	1
1,3-Dichlorobenzene	ND		2.0		ppb v/v			11/25/14 03:33	1
1,4-Dichlorobenzene	ND		2.0		ppb v/v			11/25/14 03:33	1
Benzene	ND		2.0		ppb v/v			11/25/14 03:33	1
Benzyl chloride	ND		4.0		ppb v/v			11/25/14 03:33	1
Bromomethane	ND		2.0		ppb v/v			11/25/14 03:33	1
Carbon tetrachloride	ND		2.0		ppb v/v			11/25/14 03:33	1
Chlorobenzene	ND		2.0		ppb v/v			11/25/14 03:33	1
Chloroethane	ND		2.0		ppb v/v			11/25/14 03:33	1
Chloroform	ND		2.0		ppb v/v			11/25/14 03:33	1
Chloromethane	ND		5.0		ppb v/v			11/25/14 03:33	1
cis-1,2-Dichloroethene	ND		2.0		ppb v/v			11/25/14 03:33	1
cis-1,3-Dichloropropene	ND		2.0		ppb v/v			11/25/14 03:33	1
Dichlorodifluoromethane	ND		2.0		ppb v/v			11/25/14 03:33	1
Ethylbenzene	ND		2.0		ppb v/v			11/25/14 03:33	1
Hexachlorobutadiene	ND		10		ppb v/v			11/25/14 03:33	1
Methyl tert-butyl ether	ND		10		ppb v/v			11/25/14 03:33	1
Methylene Chloride	ND		5.0		ppb v/v			11/25/14 03:33	1
m-Xylene & p-Xylene	ND		2.0		ppb v/v			11/25/14 03:33	1
Naphthalene	ND		5.0		ppb v/v			11/25/14 03:33	1
o-Xylene	ND		2.0		ppb v/v			11/25/14 03:33	1
Styrene	ND		2.0		ppb v/v			11/25/14 03:33	1
Tetrachloroethene	ND		2.0		ppb v/v			11/25/14 03:33	1
Toluene	ND		2.0		ppb v/v			11/25/14 03:33	1
trans-1,3-Dichloropropene	ND		2.0		ppb v/v			11/25/14 03:33	1
Trichloroethene	ND		2.0		ppb v/v			11/25/14 03:33	1
Trichlorofluoromethane	ND		2.0		ppb v/v			11/25/14 03:33	1
Vinyl chloride	ND		2.0		ppb v/v			11/25/14 03:33	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		11		ug/m3			11/25/14 03:33	1
1,1,2,2-Tetrachloroethane	ND		14		ug/m3			11/25/14 03:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		15		ug/m3			11/25/14 03:33	1
1,1,2-Trichloroethane	ND		11		ug/m3			11/25/14 03:33	1
1,1-Dichloroethane	ND		8.1		ug/m3			11/25/14 03:33	1
1,1-Dichloroethene	ND		7.9		ug/m3			11/25/14 03:33	1
1,2,4-Trichlorobenzene	ND		74		ug/m3			11/25/14 03:33	1
1,2,4-Trimethylbenzene	ND		9.8		ug/m3			11/25/14 03:33	1
1,2-Dibromoethane (EDB)	ND		15		ug/m3			11/25/14 03:33	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		14		ug/m3			11/25/14 03:33	1
1,2-Dichlorobenzene	ND		12		ug/m3			11/25/14 03:33	1
1,2-Dichloroethane	ND		8.1		ug/m3			11/25/14 03:33	1

Client Sample Results

Client: Woodard & Curran Inc
Project/Site: Fashion Care - 226203.00

TestAmerica Job ID: 140-2355-1

Client Sample ID: SV-3

Lab Sample ID: 140-2355-3

Date Collected: 11/19/14 17:08
Matrix: Air
Date Received: 11/21/14 09:10
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		9.2		ug/m3			11/25/14 03:33	1
1,3,5-Trimethylbenzene	ND		9.8		ug/m3			11/25/14 03:33	1
1,3-Dichlorobenzene	ND		12		ug/m3			11/25/14 03:33	1
1,4-Dichlorobenzene	ND		12		ug/m3			11/25/14 03:33	1
Benzene	ND		6.4		ug/m3			11/25/14 03:33	1
Benzyl chloride	ND		21		ug/m3			11/25/14 03:33	1
Bromomethane	ND		7.8		ug/m3			11/25/14 03:33	1
Carbon tetrachloride	ND		13		ug/m3			11/25/14 03:33	1
Chlorobenzene	ND		9.2		ug/m3			11/25/14 03:33	1
Chloroethane	ND		5.3		ug/m3			11/25/14 03:33	1
Chloroform	ND		9.8		ug/m3			11/25/14 03:33	1
Chloromethane	ND		10		ug/m3			11/25/14 03:33	1
cis-1,2-Dichloroethene	ND		7.9		ug/m3			11/25/14 03:33	1
cis-1,3-Dichloropropene	ND		9.1		ug/m3			11/25/14 03:33	1
Dichlorodifluoromethane	ND		9.9		ug/m3			11/25/14 03:33	1
Ethylbenzene	ND		8.7		ug/m3			11/25/14 03:33	1
Hexachlorobutadiene	ND		110		ug/m3			11/25/14 03:33	1
Methyl tert-butyl ether	ND		36		ug/m3			11/25/14 03:33	1
Methylene Chloride	ND		17		ug/m3			11/25/14 03:33	1
m-Xylene & p-Xylene	ND		8.7		ug/m3			11/25/14 03:33	1
Naphthalene	ND		26		ug/m3			11/25/14 03:33	1
o-Xylene	ND		8.7		ug/m3			11/25/14 03:33	1
Styrene	ND		8.5		ug/m3			11/25/14 03:33	1
Tetrachloroethene	ND		14		ug/m3			11/25/14 03:33	1
Toluene	ND		7.5		ug/m3			11/25/14 03:33	1
trans-1,3-Dichloropropene	ND		9.1		ug/m3			11/25/14 03:33	1
Trichloroethene	ND		11		ug/m3			11/25/14 03:33	1
Trichlorofluoromethane	ND		11		ug/m3			11/25/14 03:33	1
Vinyl chloride	ND		5.1		ug/m3			11/25/14 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*11/25/14 03:33*	*1*

Surrogate Summary

Client: Woodard & Curran Inc
Project/Site: Fashion Care - 226203.00

TestAmerica Job ID: 140-2355-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**BFB (60-140)**							
140-2355-1	SV-1	97							
140-2355-2	SV-2	98							
140-2355-3	SV-3	97							
LCS 140-1963/1002	Lab Control Sample	104							
MB 140-1963/7	Method Blank	93							

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 140-1963/7
Matrix: Air
Analysis Batch: 1963

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20		ppb v/v			11/24/14 18:01	1
1,1,2,2-Tetrachloroethane	ND		0.20		ppb v/v			11/24/14 18:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20		ppb v/v			11/24/14 18:01	1
1,1,2-Trichloroethane	ND		0.20		ppb v/v			11/24/14 18:01	1
1,1-Dichloroethane	ND		0.20		ppb v/v			11/24/14 18:01	1
1,1-Dichloroethene	ND		0.20		ppb v/v			11/24/14 18:01	1
1,2,4-Trichlorobenzene	ND		1.0		ppb v/v			11/24/14 18:01	1
1,2,4-Trimethylbenzene	ND		0.20		ppb v/v			11/24/14 18:01	1
1,2-Dibromoethane (EDB)	ND		0.20		ppb v/v			11/24/14 18:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20		ppb v/v			11/24/14 18:01	1
1,2-Dichlorobenzene	ND		0.20		ppb v/v			11/24/14 18:01	1
1,2-Dichloroethane	ND		0.20		ppb v/v			11/24/14 18:01	1
1,2-Dichloropropane	ND		0.20		ppb v/v			11/24/14 18:01	1
1,3,5-Trimethylbenzene	ND		0.20		ppb v/v			11/24/14 18:01	1
1,3-Dichlorobenzene	ND		0.20		ppb v/v			11/24/14 18:01	1
1,4-Dichlorobenzene	ND		0.20		ppb v/v			11/24/14 18:01	1
Benzene	ND		0.20		ppb v/v			11/24/14 18:01	1
Benzyl chloride	ND		0.40		ppb v/v			11/24/14 18:01	1
Bromomethane	ND		0.20		ppb v/v			11/24/14 18:01	1
Carbon tetrachloride	ND		0.20		ppb v/v			11/24/14 18:01	1
Chlorobenzene	ND		0.20		ppb v/v			11/24/14 18:01	1
Chloroethane	ND		0.20		ppb v/v			11/24/14 18:01	1
Chloroform	ND		0.20		ppb v/v			11/24/14 18:01	1
Chloromethane	ND		0.50		ppb v/v			11/24/14 18:01	1
cis-1,2-Dichloroethene	ND		0.20		ppb v/v			11/24/14 18:01	1
cis-1,3-Dichloropropene	ND		0.20		ppb v/v			11/24/14 18:01	1
Dichlorodifluoromethane	ND		0.20		ppb v/v			11/24/14 18:01	1
Ethylbenzene	ND		0.20		ppb v/v			11/24/14 18:01	1
Hexachlorobutadiene	ND		1.0		ppb v/v			11/24/14 18:01	1
Methyl tert-butyl ether	ND		1.0		ppb v/v			11/24/14 18:01	1
Methylene Chloride	ND		0.50		ppb v/v			11/24/14 18:01	1
m-Xylene & p-Xylene	ND		0.20		ppb v/v			11/24/14 18:01	1
Naphthalene	ND		0.50		ppb v/v			11/24/14 18:01	1
o-Xylene	ND		0.20		ppb v/v			11/24/14 18:01	1
Styrene	ND		0.20		ppb v/v			11/24/14 18:01	1
Tetrachloroethene	ND		0.20		ppb v/v			11/24/14 18:01	1
Toluene	ND		0.20		ppb v/v			11/24/14 18:01	1
trans-1,3-Dichloropropene	ND		0.20		ppb v/v			11/24/14 18:01	1
Trichloroethene	ND		0.20		ppb v/v			11/24/14 18:01	1
Trichlorofluoromethane	ND		0.20		ppb v/v			11/24/14 18:01	1
Vinyl chloride	ND		0.20		ppb v/v			11/24/14 18:01	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1		ug/m3			11/24/14 18:01	1
1,1,2,2-Tetrachloroethane	ND		1.4		ug/m3			11/24/14 18:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5		ug/m3			11/24/14 18:01	1
1,1,2-Trichloroethane	ND		1.1		ug/m3			11/24/14 18:01	1
1,1-Dichloroethane	ND		0.81		ug/m3			11/24/14 18:01	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-1963/7
Matrix: Air
Analysis Batch: 1963

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.79		ug/m3			11/24/14 18:01	1
1,2,4-Trichlorobenzene	ND		7.4		ug/m3			11/24/14 18:01	1
1,2,4-Trimethylbenzene	ND		0.98		ug/m3			11/24/14 18:01	1
1,2-Dibromoethane (EDB)	ND		1.5		ug/m3			11/24/14 18:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4		ug/m3			11/24/14 18:01	1
1,2-Dichlorobenzene	ND		1.2		ug/m3			11/24/14 18:01	1
1,2-Dichloroethane	ND		0.81		ug/m3			11/24/14 18:01	1
1,2-Dichloropropane	ND		0.92		ug/m3			11/24/14 18:01	1
1,3,5-Trimethylbenzene	ND		0.98		ug/m3			11/24/14 18:01	1
1,3-Dichlorobenzene	ND		1.2		ug/m3			11/24/14 18:01	1
1,4-Dichlorobenzene	ND		1.2		ug/m3			11/24/14 18:01	1
Benzene	ND		0.64		ug/m3			11/24/14 18:01	1
Benzyl chloride	ND		2.1		ug/m3			11/24/14 18:01	1
Bromomethane	ND		0.78		ug/m3			11/24/14 18:01	1
Carbon tetrachloride	ND		1.3		ug/m3			11/24/14 18:01	1
Chlorobenzene	ND		0.92		ug/m3			11/24/14 18:01	1
Chloroethane	ND		0.53		ug/m3			11/24/14 18:01	1
Chloroform	ND		0.98		ug/m3			11/24/14 18:01	1
Chloromethane	ND		1.0		ug/m3			11/24/14 18:01	1
cis-1,2-Dichloroethene	ND		0.79		ug/m3			11/24/14 18:01	1
cis-1,3-Dichloropropene	ND		0.91		ug/m3			11/24/14 18:01	1
Dichlorodifluoromethane	ND		0.99		ug/m3			11/24/14 18:01	1
Ethylbenzene	ND		0.87		ug/m3			11/24/14 18:01	1
Hexachlorobutadiene	ND		11		ug/m3			11/24/14 18:01	1
Methyl tert-butyl ether	ND		3.6		ug/m3			11/24/14 18:01	1
Methylene Chloride	ND		1.7		ug/m3			11/24/14 18:01	1
m-Xylene & p-Xylene	ND		0.87		ug/m3			11/24/14 18:01	1
Naphthalene	ND		2.6		ug/m3			11/24/14 18:01	1
o-Xylene	ND		0.87		ug/m3			11/24/14 18:01	1
Styrene	ND		0.85		ug/m3			11/24/14 18:01	1
Tetrachloroethene	ND		1.4		ug/m3			11/24/14 18:01	1
Toluene	ND		0.75		ug/m3			11/24/14 18:01	1
trans-1,3-Dichloropropene	ND		0.91		ug/m3			11/24/14 18:01	1
Trichloroethene	ND		1.1		ug/m3			11/24/14 18:01	1
Trichlorofluoromethane	ND		1.1		ug/m3			11/24/14 18:01	1
Vinyl chloride	ND		0.51		ug/m3			11/24/14 18:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*11/24/14 18:01*	*1*

Lab Sample ID: LCS 140-1963/1002
Matrix: Air
Analysis Batch: 1963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.17		ppb v/v		108	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.26		ppb v/v		113	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-1963/1002
Matrix: Air
Analysis Batch: 1963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.55		ppb v/v		127	70 - 130
1,1,2-Trichloroethane	2.00	2.10		ppb v/v		105	70 - 130
1,1-Dichloroethane	2.00	2.21		ppb v/v		110	70 - 130
1,1-Dichloroethene	2.00	2.56		ppb v/v		128	70 - 130
1,2,4-Trichlorobenzene	2.00	1.73		ppb v/v		87	60 - 140
1,2,4-Trimethylbenzene	2.00	2.11		ppb v/v		105	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.13		ppb v/v		106	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.04		ppb v/v		102	60 - 140
1,2-Dichlorobenzene	2.00	1.97		ppb v/v		99	70 - 130
1,2-Dichloroethane	2.00	2.06		ppb v/v		103	70 - 130
1,2-Dichloropropane	2.00	2.21		ppb v/v		110	70 - 130
1,3,5-Trimethylbenzene	2.00	2.20		ppb v/v		110	70 - 130
1,3-Dichlorobenzene	2.00	2.09		ppb v/v		104	70 - 130
1,4-Dichlorobenzene	2.00	2.06		ppb v/v		103	70 - 130
Benzene	2.00	2.20		ppb v/v		110	70 - 130
Benzyl chloride	2.00	2.10		ppb v/v		105	70 - 130
Bromomethane	2.00	1.83		ppb v/v		91	70 - 130
Carbon tetrachloride	2.00	2.43		ppb v/v		122	70 - 130
Chlorobenzene	2.00	1.99		ppb v/v		99	70 - 130
Chloroethane	2.00	1.80		ppb v/v		90	70 - 130
Chloroform	2.00	2.22		ppb v/v		111	70 - 130
Chloromethane	2.00	2.24		ppb v/v		112	60 - 140
cis-1,2-Dichloroethene	2.00	2.42		ppb v/v		121	70 - 130
cis-1,3-Dichloropropene	2.00	2.10		ppb v/v		105	70 - 130
Dichlorodifluoromethane	2.00	2.11		ppb v/v		106	60 - 140
Ethylbenzene	2.00	2.10		ppb v/v		105	70 - 130
Hexachlorobutadiene	2.00	2.49		ppb v/v		124	60 - 140
Methyl tert-butyl ether	2.00	2.14		ppb v/v		107	60 - 140
Methylene Chloride	2.00	2.44		ppb v/v		122	70 - 130
m-Xylene & p-Xylene	4.00	4.11		ppb v/v		103	70 - 130
Naphthalene	2.00	1.97		ppb v/v		98	40 - 140
o-Xylene	2.00	2.06		ppb v/v		103	70 - 130
Styrene	2.00	2.23		ppb v/v		111	70 - 130
Tetrachloroethene	2.00	1.97		ppb v/v		98	70 - 130
Toluene	2.00	2.17		ppb v/v		109	70 - 130
trans-1,3-Dichloropropene	2.00	1.91		ppb v/v		95	70 - 130
Trichloroethene	2.00	2.09		ppb v/v		104	70 - 130
Trichlorofluoromethane	2.00	2.14		ppb v/v		107	60 - 140
Vinyl chloride	2.00	2.01		ppb v/v		100	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	11.8		ug/m3		108	70 - 130
1,1,2,2-Tetrachloroethane	14	15.5		ug/m3		113	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	19.5		ug/m3		127	70 - 130
1,1,2-Trichloroethane	11	11.4		ug/m3		105	70 - 130
1,1-Dichloroethane	8.1	8.93		ug/m3		110	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-1963/1002
Matrix: Air
Analysis Batch: 1963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	7.9	10.2		ug/m3		128	70 - 130
1,2,4-Trichlorobenzene	15	12.9		ug/m3		87	60 - 140
1,2,4-Trimethylbenzene	9.8	10.4		ug/m3		105	70 - 130
1,2-Dibromoethane (EDB)	15	16.3		ug/m3		106	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	14.3		ug/m3		102	60 - 140
1,2-Dichlorobenzene	12	11.9		ug/m3		99	70 - 130
1,2-Dichloroethane	8.1	8.32		ug/m3		103	70 - 130
1,2-Dichloropropane	9.2	10.2		ug/m3		110	70 - 130
1,3,5-Trimethylbenzene	9.8	10.8		ug/m3		110	70 - 130
1,3-Dichlorobenzene	12	12.5		ug/m3		104	70 - 130
1,4-Dichlorobenzene	12	12.4		ug/m3		103	70 - 130
Benzene	6.4	7.04		ug/m3		110	70 - 130
Benzyl chloride	10	10.9		ug/m3		105	70 - 130
Bromomethane	7.8	7.10		ug/m3		91	70 - 130
Carbon tetrachloride	13	15.3		ug/m3		122	70 - 130
Chlorobenzene	9.2	9.15		ug/m3		99	70 - 130
Chloroethane	5.3	4.76		ug/m3		90	70 - 130
Chloroform	9.8	10.9		ug/m3		111	70 - 130
Chloromethane	4.1	4.62		ug/m3		112	60 - 140
cis-1,2-Dichloroethene	7.9	9.60		ug/m3		121	70 - 130
cis-1,3-Dichloropropene	9.1	9.51		ug/m3		105	70 - 130
Dichlorodifluoromethane	9.9	10.5		ug/m3		106	60 - 140
Ethylbenzene	8.7	9.14		ug/m3		105	70 - 130
Hexachlorobutadiene	21	26.5		ug/m3		124	60 - 140
Methyl tert-butyl ether	7.2	7.72		ug/m3		107	60 - 140
Methylene Chloride	7.0	8.47		ug/m3		122	70 - 130
m-Xylene & p-Xylene	17	17.8		ug/m3		103	70 - 130
Naphthalene	10	10.3		ug/m3		98	40 - 140
o-Xylene	8.7	8.94		ug/m3		103	70 - 130
Styrene	8.5	9.50		ug/m3		111	70 - 130
Tetrachloroethene	14	13.4		ug/m3		98	70 - 130
Toluene	7.5	8.18		ug/m3		109	70 - 130
trans-1,3-Dichloropropene	9.1	8.66		ug/m3		95	70 - 130
Trichloroethene	11	11.2		ug/m3		104	70 - 130
Trichlorofluoromethane	11	12.0		ug/m3		107	60 - 140
Vinyl chloride	5.1	5.13		ug/m3		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*

QC Association Summary

Client: Woodard & Curran Inc
Project/Site: Fashion Care - 226203.00

TestAmerica Job ID: 140-2355-1

Air - GC/MS VOA

Analysis Batch: 1963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-2355-1	SV-1	Total/NA	Air	TO-15	
140-2355-2	SV-2	Total/NA	Air	TO-15	
140-2355-3	SV-3	Total/NA	Air	TO-15	
LCS 140-1963/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-1963/7	Method Blank	Total/NA	Air	TO-15	

Lab Chronicle

Client: Woodard & Curran Inc
Project/Site: Fashion Care - 226203.00

TestAmerica Job ID: 140-2355-1

Client Sample ID: SV-1

Lab Sample ID: 140-2355-1
Matrix: Air
Date Collected: 11/19/14 16:18
Date Received: 11/21/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	20 mL	500 mL	1963	11/25/14 02:08	HMT	TAL KNX
	Instrument ID: MG									

Client Sample ID: SV-2

Lab Sample ID: 140-2355-2
Matrix: Air
Date Collected: 11/19/14 16:25
Date Received: 11/21/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	20 mL	500 mL	1963	11/25/14 02:50	HMT	TAL KNX
	Instrument ID: MG									

Client Sample ID: SV-3

Lab Sample ID: 140-2355-3
Matrix: Air
Date Collected: 11/19/14 17:08
Date Received: 11/21/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	20 mL	500 mL	1963	11/25/14 03:33	HMT	TAL KNX
	Instrument ID: MG									

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Certification Summary

Client: Woodard & Curran Inc
Project/Site: Fashion Care - 226203.00

TestAmerica Job ID: 140-2355-1

Laboratory: TestAmerica Knoxville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		N/A	
Arkansas DEQ	State Program	6	88-0688	06-17-15
California	State Program	9	2423	06-30-16
Colorado	State Program	8	N/A	02-28-15
Connecticut	State Program	1	PH-0223	09-30-15
Florida	NELAP	4	E87177	06-30-15
Georgia	State Program	4	906	04-13-17
Hawaii	State Program	9	N/A	04-13-15
Kansas	NELAP	7	E-10349	01-31-15
Kentucky (DW)	State Program	4	90101	12-31-14
L-A-B	DoD ELAP		L2311	02-13-16
Louisiana	NELAP	6	LA110001	12-31-15
Maryland	State Program	3	277	03-31-15
Michigan	State Program	5	9933	04-13-17
Nevada	State Program	9	TN00009	07-31-15
New Jersey	NELAP	2	TN001	06-30-15
New York	NELAP	2	10781	03-31-15
North Carolina (DW)	State Program	4	21705	07-31-15
Ohio VAP	State Program	5	CL0059	03-26-15
Oklahoma	State Program	6	9415	08-31-15
Pennsylvania	NELAP	3	68-00576	12-31-14
South Carolina	State Program	4	84001	06-30-15
Tennessee	State Program	4	2014	04-13-17
Texas	NELAP	6	T104704380-TX	08-31-15
USDA	Federal		P330-13-00260	08-29-16
Utah	NELAP	8	QUAN3	07-31-15
Virginia	NELAP	3	460176	09-14-15
Virginia	State Program	3	165	06-30-15
Washington	State Program	10	C593	01-19-15
West Virginia (DW)	State Program	3	9955C	12-31-14
West Virginia DEP	State Program	3	345	04-30-15
Wisconsin	State Program	5	998044300	08-31-15

Method Summary

Client: Woodard & Curran Inc
Project/Site: Fashion Care - 226203.00

TestAmerica Job ID: 140-2355-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: Woodard & Curran Inc
Project/Site: Fashion Care - 226203.00

TestAmerica Job ID: 140-2355-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-2355-1	SV-1	Air	11/19/14 16:18	11/21/14 09:10
140-2355-2	SV-2	Air	11/19/14 16:25	11/21/14 09:10
140-2355-3	SV-3	Air	11/19/14 17:08	11/21/14 09:10

Login Sample Receipt Checklist

Client: Woodard & Curran Inc

Job Number: 140-2355-1

Login Number: 2355
List Number: 1
Creator: Wilson, Ken

List Source: TestAmerica Knoxville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	This is checked in the lab.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica Knoxville - Air Canister Initial Pressure Check

Gauge ID: G1

Analyst	Date	Sample ID	6 L	1 L	Pressure @ Receipt (-in Hg or +psig)	Time	Comments
AFB	11/21/2014	140-2355-a-1	X		-2.5	1717	
AFB	11/21/2014	140-2355-a-2	X		-1.5	1718	
AFB	11/21/2014	140-2355-a-3	X		-1.2	1719	

APPENDIX F – OTHER ENVIRONMENTAL DOCUMENTS

EXO TECH, INC.
Chemical Oxidation and Environmental Remediation

Office: 770-564-1444/Fax: 770-923-1166

March 26, 2009

Len J. Diprima, Jr. P.G.
Winter Environmental
3350 Green Pointe Parkway, Suite 200
Norcross, Georgia 30092

Subject: Injection Summary
Fashion Care Cleaners
2211 Savoy Drive
Chamblee, Dekalb County, Georgia

Site Description:

The site is an active dry cleaners that has had multiple releases of tetrachloroethene (PCE) into the soil and groundwater. In addition, a BTEX plume from a release at the gas station next door has migrated onto this site and co-mingled with the PCE plume. We treated an area of approximately 2,800 square feet that covered both inside and outside of the building to treat around the source area. The purpose of this treatment was to lower detectable PCE in the soil.

Injection Well Installation:

Prior to the installation of the injection wells, **Exo Tech** contacted the Utility Protection Center (UPC) to locate the utilities outside of the building. Since we were not sure what was underneath the building, all of the wells inside of the building were hand augered by **Exo Tech**. A total of -7- one inch injection wells were installed outside of the building and a total of -14- one inch injection wells were installed inside of the building. These wells were installed to a depth of 12 feet below ground surface (bgs). In addition, -3- shallow injection wells were installed inside the building to better cover the source area. These wells were installed to 2 feet bgs in order to treat the soil just underneath the slab. See attached map for numbering and placement of wells. All of the injection wells were constructed in a similar fashion. See attached diagrams for injection well construction details.

Injection summary:

See attached Table 1 for the injection summary.

The injections went well as there was only one occurrence of minimal daylighting (IW-5) and no prolonged injection times at any of the wells.

EXO TECH, INC.
Chemical Oxidation and Environmental Remediation

Office: 770-564-1444/Fax: 770-923-1166

Treatment Summary:

Injection dates:	3/18/09 - 3/19/09
Total number of wells injected into:	24
Total weight of Persulfate injected:	4,840 lbs.
Total weight of Chelated Iron injected:	66 lbs.
Total volume of solution injected:	2,200 gals.

Recommendations:

Exo Tech recommends the collection of confirmatory groundwater samples approximately 30-60 days following the last date of injection (2/26/2009).

Please contact us if you have questions or need further information. Thank you for the opportunity to serve your need on this project.

Sincerely,

Brett Ellington
Chemical Engineer

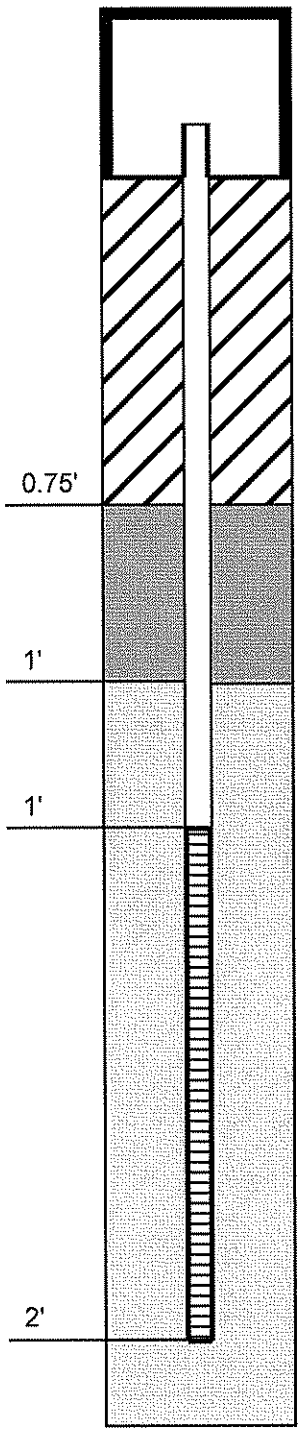
EXOTECH, INC.
INJECTION WELL CONSTRUCTION DETAILS

DRILLING FIRM: EXO TECH, INC. **SUPERVISING GEOLOGIST:** KEN SUMMEROUR, P.G.

PROJECT NAME: FASHION CARE DRY CLEANERS

PROJECT LOCATION: SAVOY DRIVE, CHAMBLEE, GEORGIA

INJECTION WELL NO.: IW-6, IW-7 & IW-9 **DATE OF INSTALLATION:** 1/22/09 - 1/23/09



STEEL, BOLT-DOWN WELL VAULT ENCLOSED IN CONCRETE PAD WITH FLUSH FITTING PVC CAP

WELL RISER

MATERIAL:	PVC
DIAMETER:	1 INCHES
JOINT TYPE:	FLUSH THREADED
LENGTH:	1 FEET

SECOND SEAL

TYPE OF SEAL:	PORTLAND CEMENT
THICKNESS:	0.75 FEET

FIRST SEAL

TYPE OF SEAL:	BENTONITE CRUMBLES
THICKNESS:	0.25 FEET IN 4 INCH LIFTS

FILTER PACK

TYPE OF FILTER:	SAND
DISTANCE ABOVE SCREEN:	0 FEET

WELL SCREEN

SCREEN MATERIAL:	PVC
DIAMETER:	1 INCHES
LENGTH:	1 FOOT
SLOT SIZE:	0.010 INCHES

DEPTH TO BOTTOM OF INJECTION WELL: 2 FEET

DEPTH TO BOTTOM OF FILTER SAND: 2 FEET

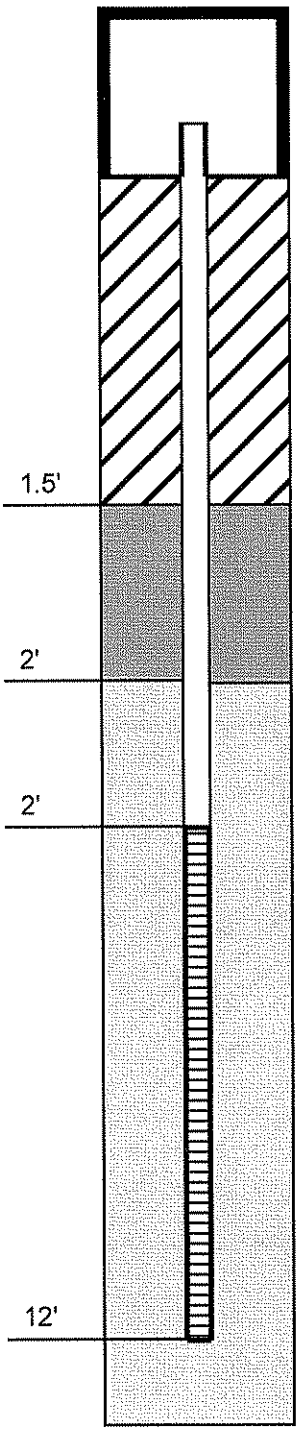
EXOTECH, INC.
INJECTION WELL CONSTRUCTION DETAILS

DRILLING FIRM: EXO TECH, INC. **SUPERVISING GEOLOGIST:** KEN SUMMEROUR, P.G.

PROJECT NAME: FASHION CARE DRY CLEANERS

PROJECT LOCATION: SAVOY DRIVE, CHAMBLEE, GEORGIA

INJECTION WELL NO.: IW-1 thru IW-5, IW-8, IW-10 thru IW-17 **DATE OF INSTALLATION:** 1/22/09 - 1/23/09



STEEL, BOLT-DOWN WELL VAULT ENCLOSED IN CONCRETE PAD WITH FLUSH FITTING PVC CAP

WELL RISER

MATERIAL:	PVC
DIAMETER:	1 INCHES
JOINT TYPE:	FLUSH THREADED
LENGTH:	2 FEET

SECOND SEAL

TYPE OF SEAL:	PORTLAND CEMENT
THICKNESS:	1.5 FEET

FIRST SEAL

TYPE OF SEAL:	BENTONITE CRUMBLES
THICKNESS:	0.5 FEET IN 4 INCH LIFTS

FILTER PACK

TYPE OF FILTER:	SAND
DISTANCE ABOVE SCREEN:	0 FEET

WELL SCREEN

SCREEN MATERIAL:	PVC
DIAMETER:	1 INCHES
LENGTH:	10 FEET
SLOT SIZE:	0.010 INCHES

DEPTH TO BOTTOM OF INJECTION WELL: 12 FEET

DEPTH TO BOTTOM OF FILTER SAND: 12 FEET

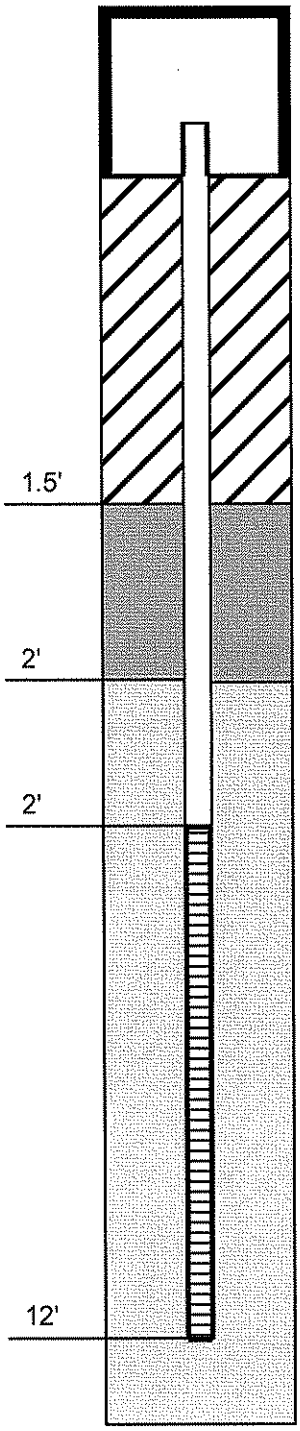
EXOTECH, INC.
INJECTION WELL CONSTRUCTION DETAILS

DRILLING FIRM: ATLAS GEO-SAMPLING **SUPERVISING GEOLOGIST:** KEN SUMMEROUR, P.G.

PROJECT NAME: FASHION CARE DRY CLEANERS

PROJECT LOCATION: SAVOY DRIVE, CHAMBLEE, GEORGIA

INJECTION WELL NO.: IW-18 thru IW-24 **DATE OF INSTALLATION:** 1/22/09 - 1/23/09



STEEL, BOLT-DOWN WELL VAULT ENCLOSED IN CONCRETE PAD WITH FLUSH FITTING PVC CAP

WELL RISER

MATERIAL:	PVC
DIAMETER:	1 INCHES
JOINT TYPE:	FLUSH THREADED
LENGTH:	2 FEET

SECOND SEAL

TYPE OF SEAL:	PORTLAND CEMENT
THICKNESS:	1.5 FEET

FIRST SEAL

TYPE OF SEAL:	BENTONITE CRUMBLES
THICKNESS:	0.5 FEET IN 4 INCH LIFTS

FILTER PACK

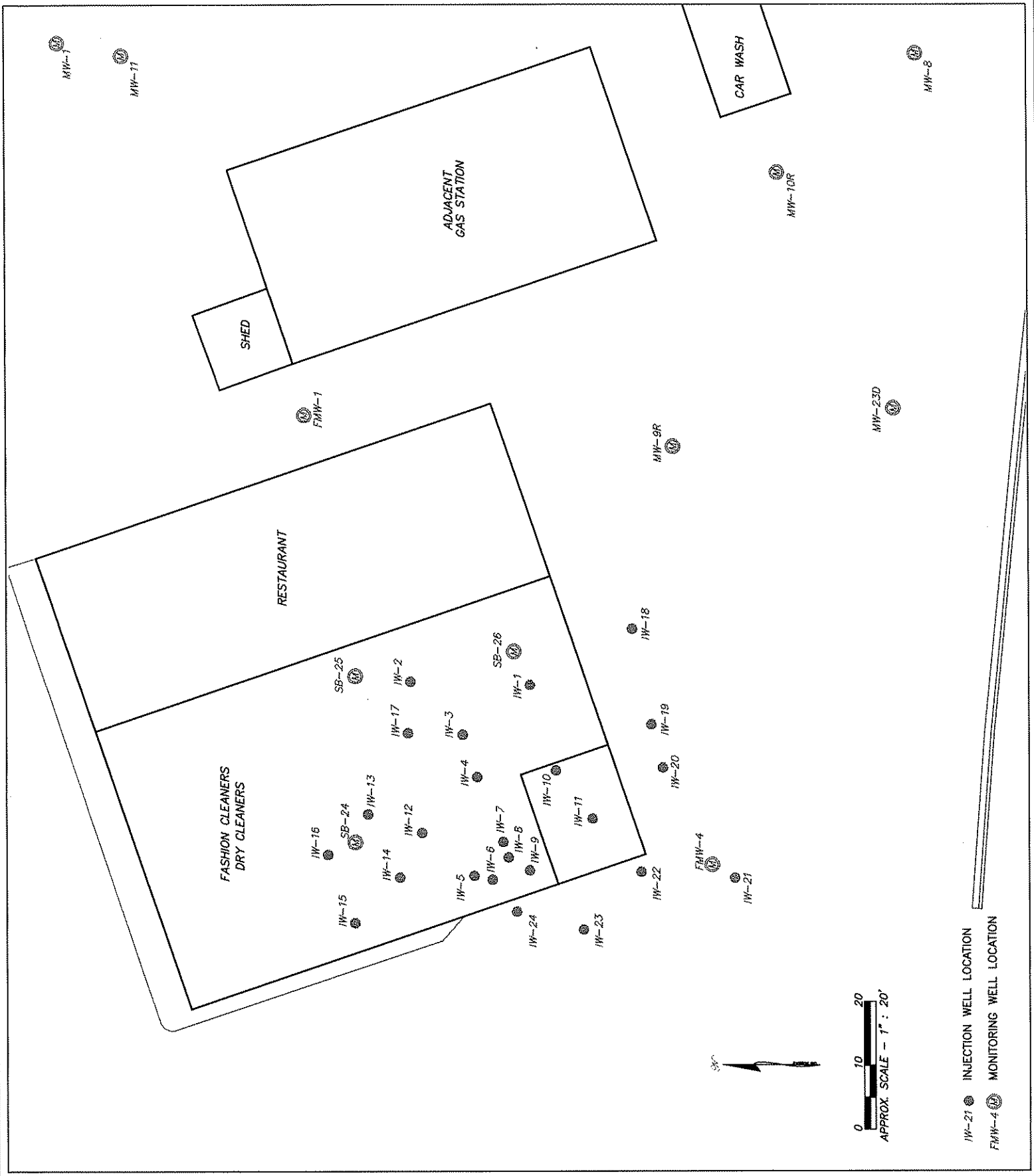
TYPE OF FILTER:	SAND
DISTANCE ABOVE SCREEN:	0 FEET

WELL SCREEN

SCREEN MATERIAL:	PVC
DIAMETER:	1 INCHES
LENGTH:	10 FEET
SLOT SIZE:	0.010 INCHES

DEPTH TO BOTTOM OF INJECTION WELL: 12 FEET

DEPTH TO BOTTOM OF FILTER SAND: 12 FEET



EX·TECH, INC.

DATE:	3/30/09
DRAWN BY:	ADL
CHECKED:	BE
SCALE:	APPROX. 1" ; 20'

FIGURE NUMBER

1

FASHION CARE CLEANERS
2211 SAVOY DRIVE
CHAMBLEE, DEKALB COUNTY, GEORGIA

INJECTION WELL LOCATIOIN MAP

TABLE 1 - SODIUM PERSULFATE INJECTION DATA
Fashion Care
2211 Savoy Drive
Chamblee, Dekalb County, Georgia

Well ID	Date	Amount Oxidant Injected (gal)	Amount Persulfate Injected (lbs)	Time/ Comments
IW-1	3/18/09	100	220	33 minutes
IW-2	3/18/09	100	220	48 minutes
IW-3	3/18/09	100	220	44 minutes
IW-4	3/18/09	100	220	48 minutes
IW-5	3/18/09	100	220	39 minutes
IW-6	3/18/09	50	110	14 minutes
IW-7	3/18/09	100	220	32 minutes
IW-8	3/18/09	100	220	57 minutes
IW-9	3/18/09	50	110	16 minutes
IW-10	3/18/09	100	220	27 minutes
IW-11	3/18/09	100	220	30 minutes
IW-16	3/18/09	100	220	45 minutes
IW-17	3/18/09	100	220	45 minutes
Total Injected		1200	2640	

* 3lbs of chelated iron used per 100 gallon batch.

TABLE 1 - SODIUM PERSULFATE INJECTION DATA
Fashion Care
2211 Savoy Drive
Chamblee, Dekalb County, Georgia

Well ID	Date	Amount Oxidant Injected (gal)	Amount Persulfate Injected (lbs)	Time/ Comments
IW-12	3/19/09	100	220	55 minutes
IW-13	3/19/09	50	110	20 minutes
IW-14	3/19/09	50	110	36 minutes
IW-15	3/19/09	100	220	50 minutes
IW-18	3/19/09	100	220	29 minutes
IW-19	3/19/09	100	220	19 minutes
IW-20	3/19/09	100	220	23 minutes
IW-21	3/19/09	100	220	26 minutes
IW-22	3/19/09	100	220	33 minutes
IW-23	3/19/09	100	220	60 minutes
IW-24	3/19/09	100	220	25 minutes
Total Injected		1000	2200	
Grand Total		2200	4840	

* 3lbs of chelated iron used per 100 gallon batch.

Status Update - Fashion Care/Executive Care Site
2211 Savoy Drive, Chamblee, DeKalb County, Georgia
HSI No. 10786

Date: September 11, 2009

This electronic copy of the letter report, *Status Update - Fashion Care/Executive Care Site*, is complete, identical to the paper copy, and virus free.

_____
Leonard J. Diprima, Jr., PG
State of Georgia Professional Geologist No. 949

WINTER ENVIRONMENTAL

September 10, 2009

Mr. Jason Metzger
Compliance Officer – Environmental Engineer
Georgia Environmental Protection Division
Hazardous Sites Response Program
2 Martin Luther King, Jr. Drive, SE
Atlanta, GA 30334

Subject: Project Status Update - Fashion Care/Executive Care Site, HSI No. 10786
2211 Savoy Drive, Chamblee, DeKalb County, Georgia
Winter Environmental Project No. 08096

Dear Mr. Metzger:

This correspondence is to update the Georgia Environmental Protection Division (EPD) Hazardous Sites Response (HSRA) Program on the progress of corrective action and additional assessment efforts conducted at the Fashion Care/Executive Care HSRA Site (the Site) by the John F. Rowan, Sr. Item IV Trust (the Trust). In addition, a list of tasks to be executed and a corresponding updated schedule for these tasks is also included.

Prior to Winter Environmental's involvement, several phases of soil investigation had been conducted at the Site by Epic Consulting, Inc. of Atlanta, Georgia (Epic). The Epic soil investigations were conducted in August 2006 and April 2007. The focus of Epic's investigations was to define the extent of HSRA regulated chemicals in soil above non-residential risk reduction standards (RRS) at the Site. Petroleum constituents associated with historical releases from the adjacent Former E-Z Serve Underground Storage Tank (UST) site (UST Facility I.D. No. 900341*1) were also identified in soil and groundwater on the Site above applicable Georgia UST Program Threshold Levels. Investigation and remediation of the adjacent release of petroleum is being conducted separately by the UST Program through the GUST Trust Fund.

On May 31, 2007, Epic submitted a Revised Corrective Action Plan (CAP) to the HSRA Program, proposing *in situ* chemical oxidation of chlorinated solvent impacted soil at the Fashion Care Site. This revised CAP was approved by the HSRA Program in correspondence dated December 28, 2007 with a number of conditions (the CAP Approval Letter). Primary among these was the recommendation by the HSRA Program that a remediation process be utilized that would address both impacted soil and groundwater at the Site, and a reminder that chlorinated solvent groundwater impacts had neither been delineated nor addressed in the May 31, 2007 Revised CAP.

REVISED REMEDIATION STRATEGY

The Trust placed Winter Environmental under contract to move forward with implementation of the CAP, with a focus on addressing both soil and groundwater impacts at the Site. The remedial method

main: 404.588.3300
fax: 404.223.6251
3350 Green Pointe Parkway
Suite 200
Norcross, Georgia 30092
www.winter-environmental.com

proposed for soil in the approved CAP has continued to be the remedial method of choice. However, the groundwater impacts identified at the Site to date indicate that other remedial methods should be examined for this media.

The current remediation strategy is to address the soil/source material first. After the source for the groundwater impacts has been attenuated, a method for addressing the remaining dissolved phase constituents will be determined and implemented with the approval of the EPD. Wherever possible and practicable, methods will be chosen for continued soil/source material remediation that will also begin to reduce the groundwater impacts.

SUMMARY OF ADDITIONAL ASSESSMENTS CONDUCTED TO SINCE EPIC-APRIL 2007

Winter Environmental has conducted two additional assessment sampling events since the April 2007 Epic assessment, in September 2008 and December 2008. The scope and findings of the assessments are discussed below.

September 2008 Assessment

In September 2008, Winter Environmental conducted additional fieldwork to delineate the extent of dissolved phase constituents in groundwater, collect soil samples at two specific locations requested by the EPD in its CAP Approval Letter, and collect surface water samples from the adjacent downgradient stream.

Six shallow monitoring wells (FMW-1 through FMW-6) were installed and sampled, and one monitoring well (SB-26) previously installed by Epic inside the drycleaner was sampled. Six existing monitoring wells (MW-2R, MW-9R, MW-11 MW-13, MW-14 and MW-23D) previously installed in connection with the investigation of the adjacent Former E-Z Serve UST site were also sampled. These monitoring wells are shown on Figure 1, in Attachment A. All samples were analyzed for volatile organic compounds (VOCs). Groundwater samples were also collected from FMW-1 through FMW-6 to establish general aquifer chemistry baseline conditions prior to conducting soil/source material remediation. Three surface water samples were also collected for VOCs and water chemistry analysis from the stream downgradient on the adjacent properties at three locations (SW-1 through SW-3) as shown on Figure 1.

As requested in EPD's CAP Approval Letter, soil samples were also collected from 0.0 to 2.0 feet inside the building, beneath the slab, where the previous drycleaning machine was once located (SB-27), and from three sample intervals to the top of the water table just outside the south corner of the building at sample location FMW-4. The soil samples were analyzed for VOCs. A sample was also collected from SB-27, the area of highest impacts, for a bench treatability analysis for chemical oxidation remediation of the soil/source material using sodium persulfate. The soil sample locations are shown on Figure 1.

The groundwater analytical results from the September 2008 sampling event are presented in Table 1, in Attachment B. Also presented in Table 1 are the analytical results from groundwater sampling conducted by Stantec, the EPD UST Program assessment contractor, in June 2008, as part of the Former E-Z Serve UST site assessment. This data was provided to Winter Environmental by Stantec as part of an effort to share information, to better understand the impact of petroleum releases from the former E-Z Serve on the Site. As shown on Figure 1, using tetrachloroethene (PCE) as an indicator parameter, horizontal delineation was not achieved downgradient to the south, and side-gradient to the west and northwest during this sampling event. Vertical delineation also was not achieved. The sample collected

from the existing deep well, MW-23D, screened at the top of bedrock from 50 to 55 feet below ground surface, contained drycleaning constituents above non-residential RRS. Groundwater and surface water general aquifer chemistry baseline data acquired from the sampling event are presented in Table 2.

Surface water analytical results are presented on Table 1. No VOCs were detected in surface water downgradient of the Site.

Soil sample results for the Epic investigations and the samples collected in September 2008 are presented in Table 3. VOCs in soil samples collected from FMW-4, outside the south corner of the building, were all below non-residential RRS. The shallow soil sample collected from the area of the former drycleaning machine at SB-27 contained PCE at 18.0 mg/kg, above non-residential RRS as expected and comparable to soil concentrations identified by Epic. Based upon the Epic and Winter Environmental data, Winter Environmental consulted with EPD, and proceeded with the remediation of this media. Figure 1 shows the area of soil above non-residential RRS using PCE as an indicator parameter.

A complete round of water table elevation measurements were collected from all the monitoring wells across the Fashion Care and EZ-Serve sites. The water table elevation measurements are presented in Table 4. Based on this data, groundwater flows from the northeast to the south-southwest across both properties. The September 2008 water table data, presented on Figure 2, however, showed an unusual mounding of groundwater beneath the drycleaner. Monitoring wells in the area were measured again and confirmed this anomaly. The extended distribution of dissolved phase impacts discovered, in conjunction with the mounding water table beneath the building, indicated a source of infiltrating water. The potable water line for the facility runs from North Peachtree Road into the back of the building and was suspected to have a leak based upon the data. The water line was pressure tested and was found to be tight.

<u>December 2008 Assessment</u>

In December 2008, Winter Environmental conducted additional fieldwork to delineate the extent of dissolved phase constituents in groundwater to the south, west and northwest. Five additional shallow monitoring wells were installed (FWM-7 through FMW-11). As shown on Figure 3 and in Table 1, horizontal delineation was achieved to the northwest and west; however, it was not achieved to the southwest and southeast. Additional delineation is anticipated in these directions with the addition of three shallow monitoring wells, and vertically with the installation of a downgradient, Type III, bedrock monitoring well.

Another complete round of water table elevation measurements were collected from all the monitoring wells across the Fashion Care and EZ-Serve sites. The water table elevation measurements are presented in Table 4. As in September 2008, groundwater flow was from the northeast to the south-southwest across both properties, as shown on Figure 4. The data continued to confirm the presence of the unusual mounding of groundwater beneath the drycleaner and a source of the mounding water and broad distribution of dissolved constituents continued to be sought.

Further Inspection of the drycleaning facility revealed a 4 foot by 4 foot by 6 to 8 foot deep concrete sump inside the rear of the drycleaner covered by a metal plate. The sump was within the area of groundwater mounding and received the wastewater discharge from all sinks, washing machines and various piping within the drycleaning facility, except the bathroom. The sump acts as a sediment trap

prior to the wastewater discharging to the sanitary sewer system behind the building. The sump smelled of drycleaning fluid and a water sample was collected from the sump for analysis of PCE and TCE. Laboratory analysis of the sample confirmed the presence of PCE at a concentration of 0.701 mg/L and TCE at 0.0108 mg/L, indicating that dry cleaning solvent-impacted water was being discharged to the sump. The laboratory report for the sump sample is in Attachment C.

A leak test of the sump concluded that the sump was leaking, confirming that the leaking sump was a source of the groundwater mounding beneath the building. The Trust had a contractor reseal the sump by relining the bottom and sides up to the point of discharge with new concrete prior to it being returned to service.

Further investigation of the current dry cleaner's waste disposal practices indicated that the required waste disposal records and operational compliance documents were not being properly maintained on site. In addition, the PCE waste fluid evaporator system associated with the drycleaning machine was not operating and appeared to have not been operational for some time although it was filled with PCE waste fluid. At the time of the inspection, several open containers of liquid PCE waste materials were also present inside the facility. The drycleaner was ordered to properly record future disposal of any drycleaning waste generated, repair the PCE waste fluid evaporator system and to take steps to replace the PCE-based drycleaning machine with a non-PCE fluid drycleaning machine. The PCE-based drycleaning machine was replaced with a non-PCE fluid drycleaning machine in May 2009.

SOIL/SOURCE MATERIAL REMEDIATION

Following the completion of the treatability study, the design for the soil/source material chemical oxidation remediation was finalized. The treatability study report prepared by ExoTech, Inc. of Lilburn, Georgia is included as Attachment D. An Underground Injection Permit was obtained from the EPD; UIC Permit #393. A copy of the permit is included as Attachment E. A total of 21 soil injection wells were installed in and around the area to be treated using sodium persulfate. The location of the injection wells relative to the impacted soil area is shown on Figure 5. The injection event was conducted on March 18 and March 19, 2009, injecting 4,480 lbs of sodium persulfate activated with 66 lbs of chelated iron, using 2,200 gallons of mixture. Attachment F is an Injection Summary report prepared by ExoTech, Inc.

On May 8, 2009 and May 18, 2009, soil remediation confirmation samples were collected following the soil chemical injection event. Soil samples were collected from nine sample locations, SB-28 through SB-36, as requested by the EPD. The boring locations are shown on Figure 6. Samples were collected from three intervals from each boring using DPT or hand-driven methods; 0 to 2 feet bgs, approximately midway to the water table, and from the approximate two foot interval immediately above the water table. The confirmation soil sample laboratory results are presented in Table 5. The post-chemical oxidation sample results showed concentrations with little or no reduction, and some cases significantly higher concentrations of constituents than the pre-remediation design concentrations. Previously, the highest concentration of PCE in soil, 18.0 mg/kg, was in SB-27 at 0 to 2 feet bgs, immediately beneath the historical source, the old PCE drycleaner machine. PCE concentrations in the post-remediation samples were higher on average at all locations than seen in the 2006 and 2007 Epic data, with concentrations up to 3,800 mg/kg at SB-32, 6 to 8 feet bgs. TCE and cis-1,2-dichloroethene were also found above non-residential RRS at higher concentrations than had been seen in previous soil samples collected at the Site. Non-residential RRS exceedances of one or more of these constituents were found

in all but one of the confirmation sample locations, SB-29. These higher concentrations appear to be the result of the continued release of hazardous substances by the current drycleaning operator. Further releases have been prevented by the removal of the PCE drycleaning equipment from the Site.

PROPOSED NEXT STEPS

The following is a list of the various tasks to be conducted in chronological order based upon the information presented above. The list is not intended to be inclusive of all activities to be conducted to bring the Fashion Care Site into compliance with HSRA RRS.

1. Determine if additional soil sampling is needed to supplement the soil confirmation data, to evaluate the proper next step for soil remediation.
2. Collection of sample(s) for a new laboratory treatability study with the higher contaminant concentrations to evaluate requirements for additional chemical oxidation.
3. Evaluate other remedial methods for soil impacts at the Site, to determine if chemical oxidation remains the most effective and economically feasible method of soil remediation.
4. Another round of surface water samples will be collected and analyzed for VOCs. This will be done to ensure that there are no current impacts to the downgradient stream on the adjacent property. The stream is the most likely point of exposure and the receptor for impacted groundwater from the Site.
5. Additional groundwater delineation will be conducted to the southwest and southeast with the installation of three additional shallow monitoring wells, and vertically with the installation of a downgradient, Type III, bedrock monitoring well.

Winter Environmental will verbally communicate with the EPD and submit a project update to the EPD following the completion of Steps 1 through 4 above. The schedule for additional groundwater delineation, Step 5, is currently anticipated to occur as part of the evaluation of groundwater remedial options following completion of the soil remediation, unless surface water sampling indicates the downgradient stream has been impacted. A revised, estimated project schedule is included as Attachment G.

Based upon the data presented in this project update the current drycleaners should also be considered a responsible party at the Site. The Trust is actively seeking participation of the current drycleaner and other responsible parties to bring the Site into compliance with HSRA RRS. We request that the EPD contact the current drycleaner to require its participation in the ongoing work at the Site. The contact information for the current drycleaner is:

Moon Ho Kwak
2211A Savoy Drive
Chamblee, Georgia 30341

In addition, EPD contacted several of the former dry cleaning operators in 2006, requesting submittal of a CSR or CAP for the Site. The Trust has also made efforts to contact and demand the participation of these parties. To date, however, none of these former dry cleaning parties has agreed to participate in the ongoing investigation and corrective action at the Site. We request that EPD again contact these parties to demand their participation in the ongoing work, and if necessary, place these individuals and businesses under an Administrative Order compelling their participation. Identification and contact information for the parties we have thus far been able to identify and locate is provided as Attachment H.

The laboratory data sheets for the data collected to date by Winter Environmental and the data provided to Winter Environmental by Stantec, contractor for the EPD UST Program, is included on CD as Attachment C.

Winter Environmental will proceed with the tasks outlined above on behalf of the Trust, and will continue to provide periodic updates to you as the project proceeds. Please contact me with any questions or comments you may have at (404) 965-3348, or by email at Ldiprima@winter-environmental.com.

Sincerely,

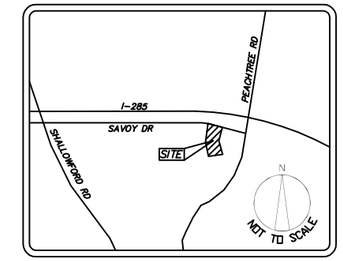
Leonard J. Diprima, Jr., P.G.
Senior Consultant

Attachments: Attachment A – Figures
Attachment B – Tables
Attachment C – Laboratory Data Sheets (On CD)
Attachment D – ExoTech, Inc. Treatability Study Report
Attachment E – Underground Injection Permit
Attachment F – ExoTech, Inc. Injection Summary Report
Attachment G – Revised Project Schedule
Attachment H – Additional Responsible Parties – Contact List

Cc: Ms. Hannah Kittrell, John F. Rowan, Sr. Item IV Trust
Andrea L. Rimer, Troutman Sanders LLP

ATTACHMENT A
FIGURES

Figure 1 – September 2008 PCE in Groundwater and Soil > Non-Residential RRS
Figure 2 – September 2008 Potentiometric Surface Map
Figure 3 – December & September 2008 Groundwater > Non-Residential RRS
Figure 4 – December 2008 Potentiometric Surface Map
Figure 5 – Injection Well Locations
Figure 6 – Post-Remediation Soil Confirmation Sample Locations



VICINITY MAP

LEGEND

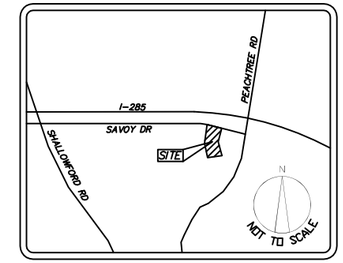
- Monitoring Well
- Soil Boring
- Surface Water Sample Location
- PCE Isoconcentrations in Groundwater
- PCE Concentrations in Soil > Non-Residental RRS
- 0.06 PCE Concentration In GW;mg/L
- FP Free-phase Petroleum Present

Referenced Drawing Is Based off of Landpro Survey

PROJECT NO.	DRAWN	DATE
08038	GTM	08/10/09

WINTER ENVIRONMENTAL

Figure 1
September 2008 PCE in Groundwater and Soil > Non-Redidential RRS
Fashion Care / Executive Care Site
2211 Savoy Dr
Atlanta, GA 30341



VICINITY MAP

LEGEND

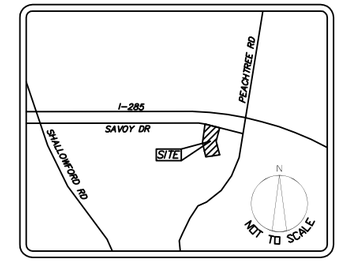
- Monitoring Well
- Groundwater Isocontour
- Surface Water Sample Location
- 83.5' Groundwater Elevation Relative to Arbitrary Datum

Referenced Drawing is Based off of Landpro Survey

PROJECT NO.	DRAWN	DATE
08096	CTM	8/10/09

WINTER ENVIRONMENTAL

Figure 2
September 2008 Potentiometric Surface Map
Fashion Care / Executive Care Site
2211 Savoy Dr
Atlanta, GA 30341



VICINITY MAP

LEGEND

(M)	Monitoring Well
▲	Surface Water Sample Location
—	Non-Residential RRS
0.06	PCE Concentration in GW;mg/L
VC 0.0106	Vinyl Chloride Concentration in GW;mg/L
BDL	Below Dection Limit
FP	Free-phase Petroleum Present

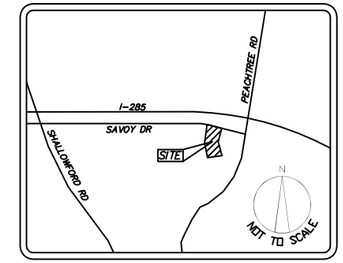
Note: Map depicts new data collected by Winter Environmental December 2008, September 2008 and Stantec data from wells not resampled.

Referenced Drawing is Based off of Landpro Survey

PROJECT NO.	DRAWN	DATE
08096	CTM	8/10/09

WINTER ENVIRONMENTAL

Figure 3
December & September 2008
Groundwater > Non-Residential RRS
Fashion Care / Executive Care Site
2211 Savoy Dr
Atlanta, GA 30341



VICINITY MAP

LEGEND

- Monitoring Well
- Groundwater Isocontour
- Surface Water Sample Location
- 83' Groundwater Elevation Relative to Arbitrary Datum

0' 30' 60' 90'

SCALE

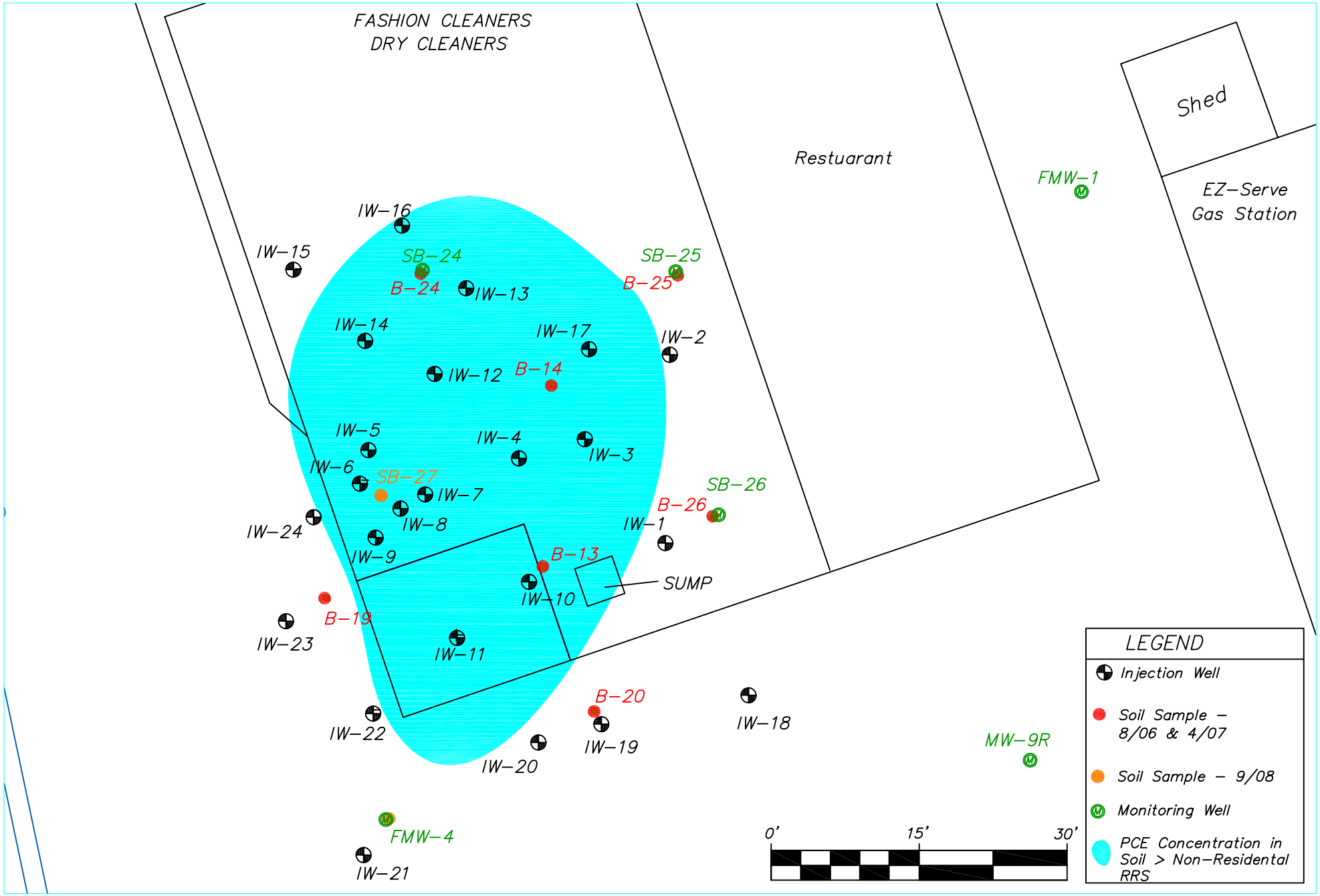
Referenced Drawing is Based off of Landpro Survey

PROJECT NO.	DRAWN	DATE
08096	GTM	8/10/09

WINTER ENVIRONMENTAL

Figure 4
December 2008 Potentiometric Surface Map
Fashion Care / Executive Care Site

2211 Savoy Dr
Atlanta, GA 30341



Date: 8-10-09 | Drawn by: GTM

F:\EBU\Winter Environmental\Projects\2008 Projects\08096-Fashion Care - Executive Care HSRA Site\AutoCAD Drawings\Muse May.2009.dwg

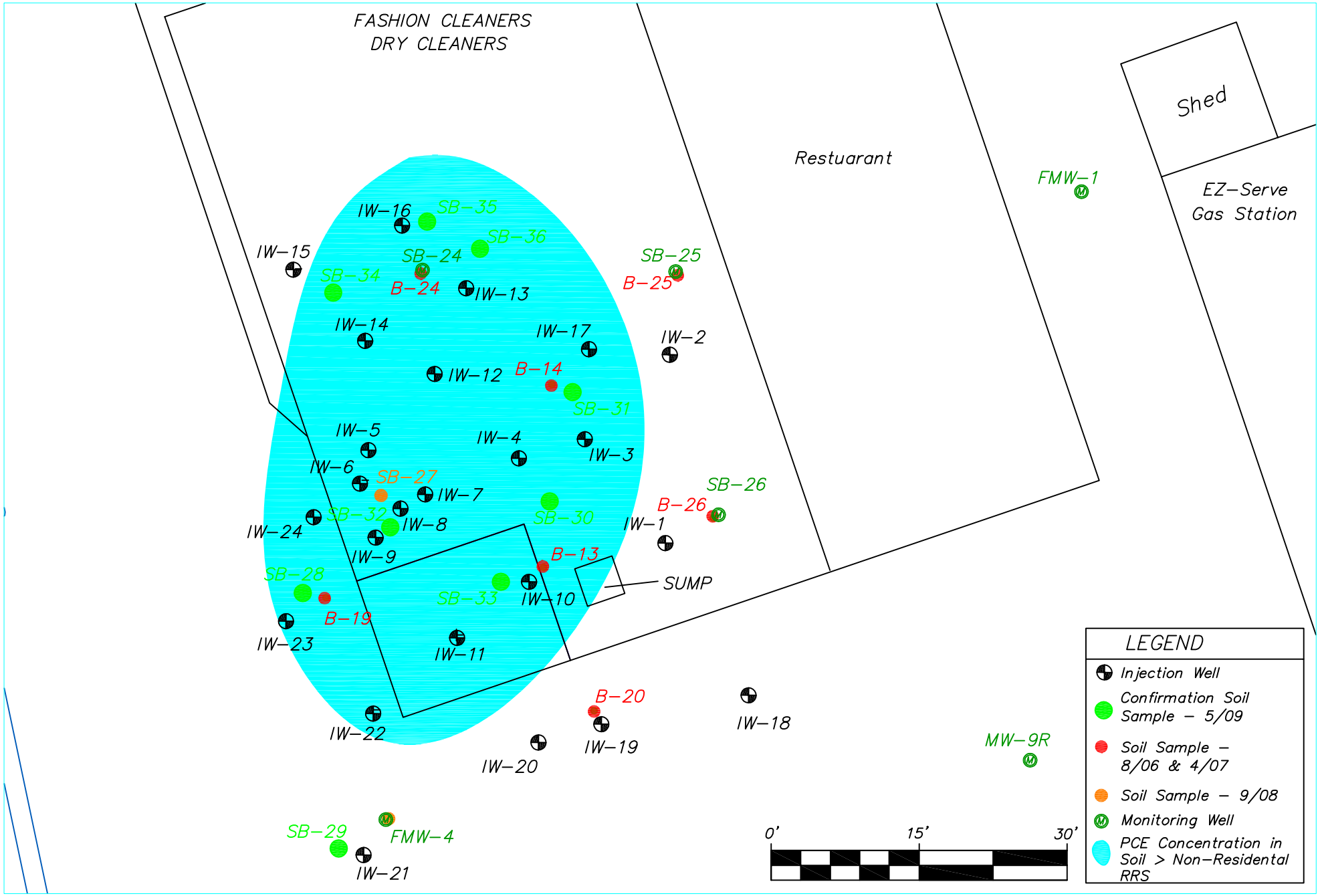
WINTER ENVIRONMENTAL

Figure 5

Injection Well Locations

March 2009

Fashion Care



Date: 8-10-09 | Drawn by: GTM

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WINTER ENVIRONMENTAL

Figure 6

Post-Remediation Soil Confirmation Sample Locations

May 2009

Fashion Care

ATTACHMENT B
TABLES

Table 1 – Groundwater and Surface Water Analytical Data - Detected Constituents
Table 2 – Aquifer Chemistry
Table 3 – Soil Analytical Data - Detected Constituents
Table 4 – Water Table Elevation Data
Table 5 – Post-Remediation Soil Confirmation Samples - Detected Constituents

WINTER ENVIRONMENTAL

Table 1
Groundwater and Surface Water Analytical Data - Dectected Constituents
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 4 Standard (mg/L)	UST Program ISWQS (mg/L)	Surface Water SW-1	Surface Water SW-2	Surface Water SW-3	FMW-1	FMW-2	FMW-3	FMW-4	FWM-5	FMW-6	DUP30108 FMW-6	FMW-7	FMW-8	FMW-9	FMW-10
	Date Sampled					9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/5/08	9/5/08	9/5/08	12/3/08	12/2/08	12/3/08	12/2/08
Volatile Organic Compounds																			
1, 1-Dichloroethene		75-35-4	0.007	0.5229		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.061**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene		95-50-1	NA(1)	NA(1)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Butanone (MEK)		78-93-3	2	11.6		<0.002	<0.002	<0.002	<0.002	0.19	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2-Hexanone		591-78-6	NR	NR		<0.002	<0.002	<0.002	<0.002	0.065	<0.002	0.031	<0.002	<0.002	<0.002	<0.002	0.0317	<0.002	<0.002
Acetone		67-64-1	4	45.6		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chlorobenzene		108-90-7	NA(1)	NA(1)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0036	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1, 2-Dichloroethene		156-59-2	0.53	1.02**		<0.001	<0.001	<0.001	0.0027	0.11	0.0048	**52.0**	0.1	0.18	0.18	<0.001	0.00236	0.0534	0.0445
Methylcyclohexane		108-87-2	NR	NR		<0.001	<0.001	<0.001	0.018	0.043	0.018	<0.001	<0.001	<0.001	<0.001	<0.001	0.0599	<0.001	<0.001
Tetrachloroethene (PCE)		127-18-4	0.005**	0.005*		<0.001	<0.001	<0.001	**0.0086**	**0.06**	**0.016**	**42.0**	**4.7**	**1.1**	**2.2**	<0.001	<0.001	**0.922**	<0.001
trans-1, 2-Dichloroethene		156-60-5	0.1	2**		<0.001	<0.001	<0.001	<0.001	0.0057	<0.001	**0.90**	<0.001	0.0036	0.0039	<0.001	<0.001	0.00086	<0.001
Trichloroethene (TCE)		79-01-6	0.005**	0.0345		<0.001	<0.001	<0.001	0.0028	**0.027**	**0.0057**	**30.0**	**0.1**	**0.056**	**0.05**	<0.001	<0.001	**0.0262**	<0.001
Vinyl Chloride		75-01-4	0.002**	0.0033		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**3.7**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0106**
1,2-Dibromoethane (EDB)		106-93-4	PRC	PRC	NA(2)	<0.001	<0.001	<0.001	<0.001	0.013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1, 2-Dichloroethane		107-06-2	PRC	PRC	0.099	<0.001	<0.001	<0.001	<0.001	**0.4**	<0.001	<0.001	<0.001	<0.001	0.0028	<0.001	<0.001	0.00215	<0.001
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	PRC	NA(2)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0102	<0.002	<0.002
Benzene		71-43-2	PRC	PRC	0.071	<0.001	<0.001	<0.001	**0.83**	**13.0**	**0.16**	**2.0**	0.0018	0.0018	0.0016	<0.001	**3.07**	0.00065	0.00097
Cyclohexane		110-82-7	PRC	PRC	NA(2)	<0.001	<0.001	<0.001	0.045	0.14	0.035	<0.001	<0.001	<0.001	<0.001	<0.001	0.18	<0.001	<0.001
Ethylbenzene		100-41-4	PRC	PRC	29.0	<0.001	<0.001	<0.001	0.33	2.6	0.19	0.465	<0.001	<0.001	<0.001	<0.001	2.72	0.00052	0.00073
Isopropylbenzene		98-82-8	PRC	PRC	NA(2)	<0.001	<0.001	<0.001	0.013	0.082	0.017	0.019	<0.001	<0.001	<0.001	<0.001	0.0823	<0.001	<0.001
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	PRC	NA(2)	<0.002	<0.002	<0.002	2.4	0.93	<0.002	0.945	0.022	0.26	0.26	<0.002	<0.002	0.615	0.0235
Styrene		100-42-5	PRC	PRC	NA(2)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0213	<0.001	<0.001
Toluene		108-88-3	PRC	PRC	200	<0.001	<0.001	<0.001	0.054	6.0	0.0075	4.1	<0.001	<0.001	<0.001	<0.001	7.71	0.00196	0.0014
Xylenes, Total		1330-20-7	PRC	PRC	NA(2)	<0.002	<0.002	<0.002	0.445	14.7	0.8884	1.6	<0.002	<0.002	<0.002	<0.002	14.97	0.00285	0.00412

NOTES:

BOLD Laboratory detection is above applicable regulatory standard.
ISWQS Georgia In-Stream Water Quality Standards (Rule 391-3-6-.03 Water Use Classifications and Water Quality Standards)
PRC Pertroleum related constituent
NA(1) Not Applicable - fumigant-insecticide properly applied
NA(2) Not Applicable - Petroleum related constituent which has no In-Stream Water Quality Standard
NR Not regulated
* Type 4 RRS is defaulted to the equivalent of the Type 1 RRS because the Type 1 RRS has a higher value.
** RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS in Condition 8.
FPP Free-phase petroleum present in the monitoring well

Table 1
Groundwater and Surface Water Analytical Data - Dectected Constituents
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 4 Standard (mg/L)	UST Program ISWQS (mg/L)	DUP-1 FMW-10	FMW-11	SB-26	Stantec UST Data MW-1	Stantec UST Data MW-2R	MW-2R	Stantec UST Data MW-3	Stantec UST Data MW-4R	Stantec UST Data MW-8	Stantec UST Data MW-9R	MW-9R	Stantec UST Data RW-13 (MW-10R)	Stantec UST Data MW-11	MW-11	Stantec UST Data MW-12
	Date Sampled					12/2/08	12/2/08	9/10/08	6/7/08	6/7/08	9/9/08	6/7/08	6/7/08	6/7/08	6/7/08	9/9/08	6/7/08	6/7/08	9/9/08	6/7/08
Volatile Organic Compounds																				
1, 1-Dichloroethene		75-35-4	0.007	0.5229		<0.001	<0.001	0.006	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.001	<0.005
1,2-Dichlorobenzene		95-50-1	NA(1)	NA(1)		<0.001	<0.001	<0.001	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.001	<0.005
2-Butanone (MEK)		78-93-3	2	11.6		<0.002	<0.002	<0.002	FPP	<0.05	<0.002	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.002	<0.05
2-Hexanone		591-78-6	NR	NR		<0.002	<0.002	<0.002	FPP	<0.01	<0.002	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.002	<0.01
Acetone		67-64-1	4	45.6		<0.002	<0.002	<0.002	FPP	<0.05	<0.002	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.002	<0.05
Chlorobenzene		108-90-7	NA(1)	NA(1)		<0.001	<0.001	<0.001	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.001	<0.005
cis-1, 2-Dichloroethene		156-59-2	0.53	1.02**		0.0443	0.00288	**4.0**	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	0.110	0.220	<0.005	<0.005	<0.001	<0.005
Methylcyclohexane		108-87-2	NR	NR		<0.001	<0.001	0.14	FPP	<0.005	<0.001	0.20	<0.005	0.070	0.110	0.057	0.092	<0.005	<0.001	<0.005
Tetrachloroethene (PCE)		127-18-4	0.005**	0.005*		<0.001	**0.0394**	**4.8**	FPP	<0.005	<0.001	<0.005	<0.013	<0.005	**0.12**	**0.1**	<0.005	<0.005	0.0028	<0.005
trans-1, 2-Dichloroethene		156-60-5	0.1	2**		<0.001	<0.001	0.039	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.001	<0.005
Trichloroethene (TCE)		79-01-6	0.005**	0.0345		<0.001	**0.00573**	**3.4**	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	**0.021**	**0.022**	<0.005	<0.005	<0.001	<0.005
Vinyl Chloride		75-01-4	0.002**	0.0033		**0.0106**	<0.001	**1.0**	FPP	<0.002	<0.001	<0.002	<0.002	<0.002	<0.002	**0.1**	<0.002	<0.002	<0.001	<0.002
1,2-Dibromoethane (EDB)		106-93-4	PRC	PRC	NA(2)	<0.001	<0.001	<0.001	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.001	<0.005
1, 2-Dichloroethane		107-06-2	PRC	PRC	0.099	<0.001	0.00152	<0.001	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.001	<0.005
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	PRC	NA(2)	<0.002	<0.002	<0.002	FPP	<0.01	<0.002	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.002	<0.01
Benzene		71-43-2	PRC	PRC	0.071	0.00079	0.00134	**0.53**	FPP	<0.005	<0.001	0.068	<0.005	**1.8**	**1.8**	**1.6**	**14.0**	<0.005	0.0052	<0.005
Cyclohexane		110-82-7	PRC	PRC	NA(2)	<0.001	<0.001	0.18	FPP	<0.005	<0.001	0.13	<0.005	0.085	0.110	0.140	0.170	<0.005	<0.001	<0.005
Ethylbenzene		100-41-4	PRC	PRC	29.0	<0.001	0.00321	0.23	FPP	<0.005	<0.001	0.86	<0.005	0.90	1.8	2.0	3.9	<0.005	0.0014	<0.005
Isopropylbenzene		98-82-8	PRC	PRC	NA(2)	<0.001	<0.001	0.043	FPP	<0.005	<0.001	0.095	<0.005	0.071	0.160	0.190	0.160	<0.005	<0.001	<0.005
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	PRC	NA(2)	0.022	0.575	<0.002	FPP	<0.005	<0.002	0.038	<0.005	0.022	0.089	<0.02	6.2	0.012	0.013	<0.005
Styrene		100-42-5	PRC	PRC	NA(2)	<0.001	<0.001	<0.001	FPP	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.001	<0.005
Toluene		108-88-3	PRC	PRC	200	0.00077	0.00559	0.081	FPP	<0.005	<0.001	0.220	<0.005	3.5	0.180	0.26	41.0	<0.005	<0.001	<0.005
Xylenes, Total		1330-20-7	PRC	PRC	NA(2)	0.00204	0.021	0.1082	FPP	<0.005	<0.002	4.10	<0.005	6.2	3.5	4.05	22.1	<0.005	<0.002	<0.005

NOTES:

BOLD Laboratory detection is above applicable regulatory standard.
ISWQS Georgia In-Stream Water Quality Standards (Rule 391-3-6-.03 Wat
PRC Pertroleum related constituent
NA(1) Not Applicable - fumigant-insecticide properly applied
NA(2) Not Applicable - Petroleum related constituent which has no In-Stre
NR Not regulated
* Type 4 RRS is defaulted to the equivalent of the Type 1 RRS becau
** RRS is taken from EPD CAP approval letter dated December 28, 2
FPP Free-phase petroleum present in the monitoring well

Table 1
Groundwater and Surface Water Analytical Data - Dectected Constituents
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Constituent	Location	CAS No.	HSRA Type 1&3 Standard (mg/L)	HSRA Type 4 Standard (mg/L)	UST Program ISWQS (mg/L)	Stantec UST Data MW 13	MW-13	Stantec UST Data MW 14	MW-14	Stantec UST Data MW 15	Stantec UST Data MW 16	Stantec UST Data RW 7 (MW-17)	Stantec UST Data MW 18	Stantec UST Data MW 19	Stantec UST Data MW 20	Stantec UST Data MW 21	Stantec UST Data MW 22	Stantec UST Data MW 23D	MW-23D
	Date Sampled					6/7/08	9/8/08	6/7/08	9/8/08	6/7/08	6/7/08	6/7/08	6/7/08	6/7/08	6/7/08	6/7/08	6/7/08	6/7/08	9/9/08
Volatile Organic Compounds																			
1, 1-Dichloroethene		75-35-4	0.007	0.5229		<0.005	<0.001	<0.005	0.0027	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
1,2-Dichlorobenzene		95-50-1	NA(1)	NA(1)		<0.005	<0.001	<0.005	0.0026	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	0.0058	<0.001
2-Butanone (MEK)		78-93-3	2	11.6		<0.05	<0.002	<0.05	<0.002	<0.05	<0.05	FPP	<0.05	<0.05	<0.05	0.051	<0.05	<0.05	<0.002
2-Hexanone		591-78-6	NR	NR		<0.01	<0.002	<0.01	<0.002	<0.01	<0.01	FPP	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002
Acetone		67-64-1	4	45.6		<0.05	<0.002	<0.05	<0.002	<0.05	<0.05	FPP	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.033
Chlorobenzene		108-90-7	NA(1)	NA(1)		<0.005	<0.001	<0.005	<0.001	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
cis-1, 2-Dichloroethene		156-59-2	0.53	1.02**		<0.005	<0.001	**2.4**	**2.6**	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	0.068	0.0034
Methylcyclohexane		108-87-2	NR	NR		<0.005	<0.001	0.023	0.019	0.029	<0.005	FPP	<0.005	<0.005	<0.005	0.120	0.043	0.0056	<0.001
Tetrachloroethene (PCE)		127-18-4	0.005**	0.005*		<0.005	<0.001	**0.22**	**0.26**	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.006	<0.005	**26.0**	**1.70**
trans-1, 2-Dichloroethene		156-60-5	0.1	2**		<0.005	<0.001	<0.005	0.018	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
Trichloroethene (TCE)		79-01-6	0.005**	0.0345		<0.005	<0.001	**0.23**	**0.26**	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	**0.7**	**0.028**
Vinyl Chloride		75-01-4	0.002**	0.0033		<0.002	<0.001	**0.34**	**0.83**	<0.002	<0.002	FPP	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001
1,2-Dibromoethane (EDB)		106-93-4	PRC	PRC	NA(2)	<0.005	<0.001	<0.005	<0.001	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
1, 2-Dichloroethane		107-06-2	PRC	PRC	0.099	0.024	0.012	<0.005	<0.001	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
4-Methyl-2-pentanone (MIBK)		108-10-1	PRC	PRC	NA(2)	<0.01	<0.002	<0.01	<0.002	<0.01	<0.01	FPP	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002
Benzene		71-43-2	PRC	PRC	0.071	<0.005	<0.001	**0.14**	**0.13**	**1.3**	<0.005	FPP	<0.005	<0.005	<0.005	**10.0**	<0.005	<0.005	<0.001
Cyclohexane		110-82-7	PRC	PRC	NA(2)	<0.005	<0.001	0.018	0.026	0.034	<0.005	FPP	<0.005	<0.005	<0.005	0.170	0.053	0.005	<0.001
Ethylbenzene		100-41-4	PRC	PRC	29.0	<0.005	<0.001	<0.005	0.0014	0.013	<0.005	FPP	<0.005	0.0083	<0.005	4.4	0.057	<0.005	<0.001
Isopropylbenzene		98-82-8	PRC	PRC	NA(2)	<0.005	<0.001	0.0078	0.01	0.027	<0.005	FPP	<0.005	<0.005	<0.005	0.160	0.027	<0.005	<0.001
Methyl tert-butyl ether (MTBE)		1634-04-4	PRC	PRC	NA(2)	0.038	0.19	0.370	0.13	0.320	<0.005	FPP	0.018	<0.005	<0.005	9.2	<0.005	0.049	0.0018
Styrene		100-42-5	PRC	PRC	NA(2)	<0.005	<0.001	<0.005	<0.001	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
Toluene		108-88-3	PRC	PRC	200	<0.005	<0.001	0.0086	0.015	<0.005	<0.005	FPP	<0.005	<0.005	<0.005	6.6	0.021	<0.005	<0.001
Xylenes, Total		1330-20-7	PRC	PRC	NA(2)	<0.005	<0.002	<0.005	0.0059	0.0078	<0.005	FPP	<0.005	<0.005	<0.005	23.8	0.220	0.011	0.0011

NOTES:

BOLD Laboratory detection is above applicable regulatory standard.
ISWQS Georgia In-Stream Water Quality Standards (Rule 391-3-6-.03 Wat
PRC Pertroleum related constituent
NA(1) Not Applicable - fumigant-insecticide properly applied
NA(2) Not Applicable - Petroleum related constituent which has no In-Stre
NR Not regulated
* Type 4 RRS is defaulted to the equivalent of the Type 1 RRS becau
** RRS is taken from EPD CAP approval letter dated December 28, 2
FPP Free-phase petroleum present in the monitoring well

Table 2
Aquifer Chemistry
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Type of Analysis	Constituent	Location	Surface Water SW-1	Surface Water SW-2	Surface Water SW-3	FMW-1	FMW-2	FMW-3	FMW-4	FWM-5	FMW-6	DUP30108 FMW-6	FMW-7	FMW-8	FMW-9	FMW-10	DUP-1 FMW-10	FMW-11	MW-2R
		Date Sampled	9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/5/08	9/5/08	9/5/08	12/3/08	12/2/08	12/3/08	12/2/08	12/2/08	12/2/08	9/9/08
Aquifer & Surface Water Chemistry																			
Field Parame	Oxidation Reduction Potential (mV)		-9	-38	NT	13	140	-77	119	-42	107	107	NT	NT	NT	NT	NT	NT	311
	Dissolved Oxygen (mg/L)		5.27	5.65	NT	0.79	4.1	0.71	2.17	0.31	1.12	1.12	NT	NT	NT	NT	NT	NT	3.94
	pH		7.05	7.09	7.06	6.6	5.6	7.03	5.57	6.95	6.07	6.07	6.82	4.74	7.64	6.61	6.61	5.91	4.52
	Specific Conductance (us/cm)		0.109	0.104	0.108	0.375	0.151	0.349	0.385	0.113	0.094	0.094	0.1729	0.0672	0.1498	0.23	0.23	0.0623	0.131
	Turbidity (NTU)		29	12	32	1.3	10	8	6.62	0	5.43	5.43	4.7	1.05	7.38	3.34	3.34	2.78	10
Laboratory Analyses (mg/L)	Biochemical Oxygen Demand-5 day		6.19	7.55	11.4	14.6	107	8.82	28.2	1.97 J	1.6 J	1.70 J	2.31	17.7	<2	3.55	NA	<2	4.65
	Chemical Oxygen Demand		16	28	47	81	510	40	100	9.5 J	<10	< 10	<10	86	<10	9.5J	NA	<10	9.5 J
	Total Alkalanity (as $CaCO_3$)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	79	ND	55	83	NA	ND	NA
	Iron-dissolved		<0.1	0.018 J	<0.1	0.459	0.24	8.15	0.171	4.91	<0.1	<0.1	0.065J	<0.1	0.109	19.1	NA	<0.1	<0.1
	Chloride		5.4	6.6	6.1	9.7	4	20	69	5.9	4.8	4.8	5.8	8.3	7.45	5.22	NA	4.87	25
	Sulfate		6.1	6.4	6.4	5.2	6.2	4	5.3	2.8	3.1	3	1.62	1.18	3.65	0.116J	NA	0.862J	2.2
	Sodium		9.02	9.21	10.2	12.6	16.6	21.3	5.3	10.4	9.95	9.95	NA	NA	NA	NA	NA	NA	12
	Arsenic		<0.01	<0.01	<0.01	0.005 J	<0.010	0.013	0.005 J	0.007 J	0.017	<0.01	<0.01	<0.01	<0.01	0.012	0.008J	<0.01	<0.01
	Barium		0.017 J	0.020 J	0.026 J	0.117	0.138	0.046 J	0.394	0.065	0.096	0.097	0.059	0.125	0.023J	0.093	0.093	0.034J	0.143
	Cadimum		<0.005	<0.005	<0.005	<0.005	<0.005	0.001 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.002J	0.002J	<0.005	<0.005
	Chromium		<0.05	<0.05	<0.05	0.002 J	0.001 J	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.002J	<0.05	<0.05	<0.05	0.002 J
	Copper		0.003 J	0.004 J	0.006 J	0.004 J	0.004 J	<0.05	0.003 J	<0.05	<0.05	<0.05	NA	NA	NA	NA	NA	NA	0.003 J
	Lead		<0.01	0.004 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.003J	<0.01	<0.01
	Selenium		<0.01	<0.01	<0.01	0.010 J	0.014	0.004 J	0.006 J	<0.01	0.004 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

NOTES:

J: Estimated value between the MDL and the PQL.
NA: Not Analyzed
ND: Not detected above analytical method PQL

Table 2
Aquifer Chemistry
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Type of Analysis	Constituent	Location	MW-9R	MW-11	MW-13	MW-14	MW-23D
		Date Sampled	9/9/08	9/9/08	9/8/08	9/8/08	9/9/08
Aquifer & Surface Water Chemistry							
Field Parame	Oxidation Reduction Potential (mV)		74	-48	-68	-81	73
	Dissolved Oxygen (mg/L)		1.07	0	1.11	0.68	2.27
	pH		5.76	6.63	6.86	6.81	6.29
	Specific Conductance (us/cm)		0.138	0.136	0.19	0.24	0.121
	Turbidity (NTU)		0	0	0	0	14
Laboratory Analyses (mg/L)	Biochemical Oxygen Demand-5 day		16.4	3.98	NA	7.52	<2.00
	Chemical Oxygen Demand		65	21	NA	28	16
	Total Alkalanity (as $CaCO_3$)		NA	NA	NA	NA	NA
	Iron-dissolved		4.89	2.98	NA	24.5	0.164
	Chloride		12	4.2	NA	12	3.9
	Sulfate		<1.0	3.3	NA	1.4	3.5
	Sodium		9.9	7.32	NA	11.2	8.76
	Arsenic		0.006 J	<0.01	NA	0.029	<0.01
	Barium		0.081	0.034 J	NA	0.075	0.029 J
	Cadimum		0.001 J	<0.005	NA	0.002 J	<0.005
	Chromium		<0.05	<0.05	NA	<0.05	0.002 J
	Copper		0.004 J	<0.05	NA	<0.05	0.004 J
	Lead		0.008 J	<0.01	NA	<0.01	<0.01
	Selenium		<0.01	<0.01	NA	<0.01	<0.01

NOTES:
J: Estimated value between the MDL and the PQL.
NA: Not Analyzed
ND: Not detected above analytical method PQL

Table 3

Soil Analytical Data - Detected Constituents

Fashion Care/Executive Care - HSI # 10786

2211 Savoy Drive, Chamblee, Georgia

Sample Event								Fashion Care Data																		
Location		CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		UST Soil TL*	UST Soil TL*	B-5	B-5	B-6	B-6	B-7	B-7	B-7	B-8	B-8	B-8	B-9	B-9	B-9	B-10	B-10	B-10	B-11	B-11	B-11
Depth (feet bgs)									2	15	2	15	2	10	15	5	10	15	5	10	15	2	10	15	2	10	15
Constituent	Date Sampled		0-2'	>2'	0-2'	>2'			04/17/07	08/18/06	04/17/07	08/18/06	04/17/07	08/18/06	08/18/06	08/18/06	08/18/06	08/18/06	08/18/06	08/18/06	08/18/06	04/18/07	08/18/06	08/18/06	04/18/07	08/18/06	08/18/06
Volatile Organic Compounds (VOCs) - mg/kg										~ 11'		~ 11'			~ 11'		~ 8'	~ 8'		~ 8'	~ 8'					~ 7.5'	~ 7.5'
1, 1-Dichloroethane		75-34-3	400	400	NC	NC	-	-	<0.0029	<0.17	<0.0032	<0.004	<0.0032	<0.003	<0.0033	<0.0034	<0.0037	<0.0031	<0.0038	<0.0031	<0.0031	<0.0033	<0.0031	<0.003	<0.0025	<0.0041	<0.0038
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	-	-	<0.0029	<0.17	<0.0032	<0.004	<0.0032	<0.003	<0.0033	<0.0034	<0.0037	<0.0031	<0.0038	<0.0031	<0.0031	<0.0033	<0.0031	<0.003	<0.0025	<0.0041	<0.0038
1,2 Dichlorobenzene		95-50-1	60	60	45.8	45.8	-	-	<0.0029	<0.17	<0.0032	<0.004	<0.0032	<0.003	<0.0033	<0.0034	<0.0037	<0.0031	<0.0038	<0.0031	<0.0031	<0.0033	<0.0031	<0.003	<0.0025	<0.0041	<0.0038
1,3-Dichlorobenzene		541-73-1	2.22	2.22	NC	NC	-	-	<0.0029	<0.17	<0.0032	<0.004	<0.0032	<0.003	<0.0033	<0.0034	<0.0037	<0.0031	<0.0038	<0.0031	<0.0031	<0.0033	<0.0031	<0.003	<0.0025	<0.0041	<0.0038
1,4-Dichlorobenzene		106-46-7	6.84	6.84	NC	NC	-	-	<0.0029	<0.17	<0.0032	<0.004	<0.0032	<0.003	<0.0033	<0.0034	<0.0037	<0.0031	<0.0038	<0.0031	<0.0031	<0.0033	<0.0031	<0.003	<0.0025	<0.0041	<0.0038
Acetone		67-64-1	400	400	94.6	94.6	-	-	0.170	<3.3	0.25	<0.081	0.25	<0.06	<0.066	<0.068	<0.074	<0.062	<0.075	<0.062	<0.063	<0.066	<0.062	<0.061	<0.049	<0.081	<0.076
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	-	-	<0.0029	1.3	<0.0032	0.038	<0.0032	<0.003	0.0092	0.0087	0.0086	0.0052	0.08	0.15	0.48	<0.0033	<0.0031	0.015	0.020	<0.0041	0.015
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	-	-	<0.0029	<0.17	<0.0032	<0.004	<0.0032	<0.003	<0.0033	<0.0034	<0.0037	<0.0031	<0.0038	<0.0031	0.34	<0.0033	<0.0031	<0.003	<0.0025	<0.0041	**0.620**
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	-	-	<0.0029	<0.17	<0.0032	<0.004	<0.0032	<0.003	<0.0033	<0.0034	<0.0037	<0.0031	<0.0038	<0.0031	<0.0031	<0.0033	<0.0031	<0.003	0.006	<0.0041	<0.0038
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	-	-	<0.0029	<0.17	<0.0032	<0.004	<0.0032	<0.003	<0.0033	<0.0034	<0.0037	<0.0031	<0.0038	<0.0031	**1.2**	<0.0033	<0.0031	<0.003	<0.0025	<0.0041	0.034
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	-	-	<0.0058	<0.33	<0.0065	<0.0081	<0.0063	<0.006	<0.0066	0.017	<0.0074	<0.0062	<0.0075	0.034	0.091	<0.0066	<0.0062	<0.0061	<0.0049	<0.0081	<0.0076
Benzene		71-43-2	PRC	PRC	PRC	PRC	0.02	0.02	<0.0029	**2.3**	<0.0032	**6.2**	<0.0032	**0.072**	**0.310**	0.014	**0.210**	**0.210**	**0.120**	**0.540**	**0.190**	<0.0033	<0.0031	<0.003	**0.029**	**0.039**	**0.021**
Toluene		108-88-3	PRC	PRC	PRC	PRC	135	135	<0.0029	10.0	<0.0032	21.0	<0.0032	0.004	0.0057	<0.0034	0.110	1.4	0.0073	0.036	0.0092	<0.0033	<0.0031	<0.003	<0.0025	<0.0041	<0.0038
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC	28	28	<0.0029	3.6	<0.0032	15.0	<0.0032	0.160	2.7	<0.0034	0.500	0.410	0.0081	0.100	0.060	<0.0033	<0.0031	<0.003	<0.0025	<0.0041	<0.0038
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC	700	700	<0.0058	18.5	<0.0065	74.0	<0.0063	0.012	2.6	<0.0068	0.902	1.56	0.0211	0.101	0.0032	<0.0066	<0.0062	<0.0061	<0.0049	<0.0081	<0.0076
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC	-	-	<0.0029	<0.17	<0.0032	4.8	<0.0032	0.034	0.02	0.0068	0.52	0.063	0.047	0.33	0.06	<0.0033	<0.0031	<0.003	0.032	<0.0041	<0.0038
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC	-	-	<0.0029	0.40	<0.0032	2.0	<0.0032	0.027	0.36	<0.0034	0.056	0.022	0.017	0.11	0.011	<0.0033	<0.0031	<0.003	<0.0025	<0.0041	<0.0038
MTBE		1634-04-4	PRC	PRC	PRC	PRC	-	-	<0.0029	<0.17	<0.0032	0.28	<0.0032	<0.003	<0.0033	0.033	0.0043	0.013	<0.0038	<0.0031	<0.0031	<0.0033	<0.0031	<0.003	<0.0025	<0.0041	<0.0038

Sample Event								Fashion Care Data																	
Location		CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		UST Soil TL*	B-12	B-12	B-12	B-13	B-13	B-13	B-14	B-14	B-14	B-15	B-15	B-15	B-16	B-16	B-16	B-17	B-17	B-17
Depth (feet bgs)								2	10	15	5	10	15	5	10	15	2	5	7	2	5	7	2	4	6
Constituent	Date Sampled		0-2'	>2'	0-2'	>2'		04/18/07	08/18/06	08/18/06	08/18/06	08/18/06	08/18/06	08/18/06	08/18/06	08/18/06	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07
Volatile Organic Compounds (VOCs) - mg/kg												~ 9'	~ 9'			~ 10.5'									
1, 1-Dichloroethane		75-34-3	400	400	NC	NC	-	<0.0032	<0.0042	<0.0034	<0.0031	<0.0036	<0.0031	BDL	BDL	BDL	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	-	<0.0032	<0.0042	<0.0034	<0.0031	<0.0036	0.0043	BDL	BDL	BDL	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
1,2 Dichlorobenzene		95-50-1	60	60	45.8	45.8	-	<0.0032	<0.0042	<0.0034	<0.0031	<0.0036	<0.0031	BDL	BDL	BDL	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
1,3-Dichlorobenzene		541-73-1	2.22	2.22	NC	NC	-	<0.0032	<0.0042	<0.0034	<0.0031	<0.0036	<0.0031	BDL	BDL	BDL	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
1,4-Dichlorobenzene		106-46-7	6.84	6.84	NC	NC	-	<0.0032	<0.0042	<0.0034	<0.0031	<0.0036	<0.0031	BDL	BDL	BDL	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
Acetone		67-64-1	400	400	94.6	94.6	-	<0.064	<0.083	<0.068	<0.063	<0.073	<0.062	BDL	BDL	BDL	<0.078	<0.073	<0.064	<0.059	<0.061	<0.078	<0.066	<0.061	<0.072
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	-	0.0045	<0.0042	<0.0034	2.2	**9.0**	**6.6**	4.5	**14.0**	5.5	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	-	<0.0032	<0.0042	<0.0034	**7.2**	**0.74**	**2.6**	**3.1**	0.013	BDL	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	-	<0.0032	<0.0042	<0.0034	0.013	0.088	0.018	0.015	0.130	0.017	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	-	<0.0032	<0.0042	<0.0034	**1.6**	**0.87**	**2.1**	**2.7**	0.021	0.0076	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	-	<0.0064	<0.0083	<0.0068	<0.0063	<0.0073	0.120	0.011	0.100	**0.210**	<0.0078	<0.0073	<0.0064	<0.0059	<0.0061	<0.0078	<0.0066	<0.0061	<0.0072
Benzene		71-43-2	PRC	PRC	PRC	PRC	0.02	**0.028**	<0.0042	<0.0034	0.0062	**0.022**	**0.035**	**0.026**	**0.540**	**0.910**	<0.0039	<0.0037	<0.0032	**0.053**	**0.031**	**0.095**	<0.0033	<0.003	<0.0036
Toluene		108-88-3	PRC	PRC	PRC	PRC	135	0.0048	<0.0042	<0.0034	0.0046	0.052	0.027	0.0085	1.5	5.0	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC	28	<0.0032	<0.0042	<0.0034	<0.0031	0.022	0.0098	BDL	0.430	1.3	<0.0039	<0.0037	<0.0032	<0.003	0.0035	0.013	<0.0033	<0.003	<0.0036
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC	700	0.0118	<0.0083	<0.0068	<0.0063	0.0425	<0.0062	BDL	1.27	6.7	<0.0078	<0.0073	<0.0064	<0.0059	<0.0061	0.022	<0.0066	<0.0061	<0.0072
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC	-	0.036	<0.0042	<0.0034	0.0200	BDL	0.025	BDL	BDL	BDL	<0.0039	<0.0037	<0.0032	0.034	0.016	0.040	<0.0033	<0.003	<0.0036
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC	-	<0.0032	<0.0042	<0.0034	<0.0031	BDL	<0.0031	BDL	BDL	BDL	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	0.0077	<0.0033	<0.003	<0.0036
MTBE		1634-04-4	PRC	PRC	PRC	PRC	-	<0.0032	<0.0042	0.066	<0.0031	BDL	<0.0031	BDL	BDL	BDL	<0.0039	<0.0037	<0.0032	<0.003	<0.0031	<0.0039	<0.0033	<0.003	<0.0036

Table 3

Soil Analytical Data - Detected Constituents

Fashion Care/Executive Care - HSI # 10786

2211 Savoy Drive, Chamblee, Georgia

Sample Event								Fashion Care Data																	
	Location	CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		UST Soil	B-18	B-18	B-18	B-19	B-19	B-19	B-20	B-20	B-20	B-21	B-21	B-21	B-22	B-22	B-22	B-23	B-23	B-23
	Depth (feet bgs)							2	5	10	2	5	7	2	5	7	2	5	7	2	5	10	2	5	8
Constituent	Date Sampled		0-2'	>2'	0-2'	>2'	TL*	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	04/18/07	4/17/07	4/17/07	4/17/07	04/18/07	04/18/07	04/18/07
Volatile Organic Compounds (VOCs) - mg/kg																									~ 7'
1, 1-Dichloroethane		75-34-3	400	400	NC	NC	-	<0.0024	<0.0034	<0.0036	<0.0028	<0.0034	<0.0037	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	<0.0033	<0.0034	<0.0027	<0.0034	<0.0034	<0.0042	<0.003
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	-	<0.0024	<0.0034	<0.0036	<0.0028	<0.0034	<0.0037	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	<0.0033	<0.0034	<0.0027	<0.0034	<0.0034	<0.0042	<0.003
1,2 Dichlorobenzene		95-50-1	60	60	45.8	45.8	-	<0.0024	<0.0034	<0.0036	<0.0028	<0.0034	<0.0037	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	0.010	<0.0034	<0.0027	<0.0034	<0.0034	<0.0042	<0.003
1,3-Dichlorobenzene		541-73-1	2.22	2.22	NC	NC	-	<0.0024	<0.0034	<0.0036	<0.0028	<0.0034	<0.0037	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	0.023	<0.0034	<0.0027	<0.0034	<0.0034	<0.0042	<0.003
1,4-Dichlorobenzene		106-46-7	6.84	6.84	NC	NC	-	<0.0024	<0.0034	<0.0036	<0.0028	<0.0034	<0.0037	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	0.0055	<0.0034	<0.0027	<0.0034	<0.0034	<0.0042	<0.003
Acetone		67-64-1	400	400	94.6	94.6	-	<0.0024	<0.068	<0.073	<0.056	<0.068	<0.074	<0.062	<0.065	<0.066	<0.063	<0.077	<0.066	<0.067	<0.054	<0.068	<0.071	<0.085	<0.06
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	-	<0.0024	<0.0034	<0.0036	2.4	2.4	4.7	0.063	1.4	1.0	0.027	0.0092	0.043	0.120	<0.0027	<0.0034	0.340	0.310	<0.003
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	-	<0.0024	<0.0034	<0.0036	<0.0028	0.015	0.0074	0.0091	<0.0033	<0.0033	0.0049	<0.0038	0.190	0.033	<0.0027	<0.0034	0.021	<0.0042	<0.003
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	-	<0.0024	<0.0034	<0.0036	0.019	0.032	0.011	<0.0031	0.016	0.021	<0.0032	<0.0038	<0.0033	<0.0034	<0.0027	<0.0034	<0.0034	<0.0042	<0.003
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	-	<0.0024	<0.0034	<0.0036	0.011	0.081	0.0045	0.0052	<0.0033	<0.0033	<0.0032	<0.0038	0.0047	0.055	<0.0027	<0.0034	0.011	0.0052	<0.003
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	-	<0.0048	<0.0068	<0.0073	0.034	0.080	0.033	<0.0062	0.053	0.029	<0.0063	<0.0077	<0.0066	<0.0067	<0.0054	<0.0068	0.011	0.050	<0.006
Benzene		71-43-2	PRC	PRC	PRC	PRC	0.02	**0.055**	**0.370**	**0.490**	<0.0028	<0.0034	<0.0037	<0.0031	**0.022**	0.020	0.0034	<0.0038	0.013	<0.0034	0.010	**0.230**	<0.0034	<0.0042	**0.330**
Toluene		108-88-3	PRC	PRC	PRC	PRC	135	0.011	0.290	0.700	<0.0028	<0.0034	<0.0037	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	0.0044	<0.0034	<0.0027	0.0076	<0.0034	<0.0042	0.0078
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC	28	<0.0024	0.065	2.6	<0.0028	<0.0034	<0.0037	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	<0.0033	<0.0034	<0.0027	0.610	<0.0034	<0.0042	0.098
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC	700	<0.0048	0.264	13.9	<0.0056	<0.0068	<0.0074	<0.0062	<0.0065	<0.0066	<0.0063	<0.0077	0.0206	<0.0067	<0.0054	0.942	<0.0071	<0.0085	0.0857
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC	-	<0.0024	<0.0034	0.790	0.020	0.010	0.0082	<0.0031	0.680	0.077	<0.0032	<0.0038	0.015	<0.0034	0.0088	1.3	0.005	0.0058	0.340
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC	-	<0.0024	0.004	0.320	<0.0028	<0.0034	<0.0037	<0.0031	<0.0033	<0.0033	<0.0032	<0.0038	<0.0033	<0.0034	<0.0027	0.084	<0.0034	<0.0042	0.048
MTBE		1634-04-4	PRC	PRC	PRC	PRC	-	<0.0024	<0.0034	<0.0036	<0.0028	<0.0034	<0.0037	<0.0031	<0.0033	<0.0033	0.030	0.017	0.013	<0.0034	<0.0027	<0.0034	<0.0034	<0.0042	<0.003

Sample Event								Fashion Care Data												
	Location	CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		UST Soil	B-24	B-24	B-24	B-25	B-25	B-25	B-26	B-26	B-26	FMW-4	FMW-4	FMW-4	SB-27
	Depth (feet bgs)							2	5	10	2	5	10	2	5	10	0-2	4-8	11-13	0-2
Constituent	Date Sampled		0-2'	>2'	0-2'	>2'	TL*	4/17/07	4/17/07	4/17/07	4/17/07	4/17/07	4/17/07	4/17/07	4/17/07	4/17/07	9/4/08	9/4/08	9/4/08	9/4/08
Volatile Organic Compounds (VOCs) - mg/kg																				
1, 1-Dichloroethane		75-34-3	400	400	NC	NC	-	<0.0028	<0.0028	<0.0029	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	<0.0027	<0.0035	<0.15	<0.0026
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	-	<0.0028	<0.0028	<0.0029	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	<0.0027	<0.0035	<0.15	<0.0026
1,2 Dichlorobenzene		95-50-1	60	60	45.8	45.8	-	<0.0028	<0.0028	<0.0029	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	NA	NA	NA	NA
1,3-Dichlorobenzene		541-73-1	2.22	2.22	NC	NC	-	<0.0028	<0.0028	<0.0029	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	NA	NA	NA	NA
1,4-Dichlorobenzene		106-46-7	6.84	6.84	NC	NC	-	<0.0028	<0.0028	<0.0029	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	NA	NA	NA	NA
Acetone		67-64-1	400	400	94.6	94.6	-	0.110	<0.056	<0.058	<0.078	<0.063	<0.072	0.140	<0.054	<0.061	0.039	<0.035	<1.5	0.17
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	-	0.022	2.0	3.1	0.040	0.022	0.087	<0.0031	0.110	0.035	0.041	0.12	1.7	0.068J
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	-	**1.8**	0.022	<0.0029	<0.0039	<0.0031	<0.0036	0.021	<0.0027	<0.0031	0.0087	<0.0035	0.05J	**18.0**
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	-	<0.0028	0.018	<0.0029	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	<0.0027	<0.0035	<0.15	<0.0026
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	-	0.043	0.370	<0.0029	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	0.0075	<0.0035	<0.15	0.12J
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	-	<0.0057	0.130	**0.290**	<0.0078	<0.0063	<0.0072	<0.0062	<0.0054	<0.0061	0.008	0.016	0.096J	<0.0026
Benzene		71-43-2	PRC	PRC	PRC	PRC	0.02	<0.0028	**0.088**	**0.190**	0.009	0.018	**0.080**	<0.0031	0.012	0.0032	0.0016	0.0083	**0.75**	<0.00052
Toluene		108-88-3	PRC	PRC	PRC	PRC	135	<0.0028	0.046	0.120	<0.0039	<0.0031	0.0042	<0.0031	<0.0027	<0.0031	<0.00053	0.0056	1.5	0.0026
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC	28	<0.0028	0.0031	0.078	<0.0039	0.0056	0.016	<0.0031	0.007	<0.0031	<0.00053	0.001	0.33	<0.00052
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC	700	<0.0057	0.0034	0.152	<0.0078	<0.0063	<0.0072	<0.0062	<0.0054	<0.0061	<0.00053	0.0039	1.15	<0.00052
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC	-	<0.0028	<0.0028	<0.0029	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	0.036	<0.0027	<0.0035	<0.15	<0.0026
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC	-	<0.0028	<0.0028	0.0039	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	<0.0027	<0.0035	<0.15	<0.0026
MTBE		1634-04-4	PRC	PRC	PRC	PRC	-	<0.0028	<0.0028	<0.0029	<0.0039	<0.0031	<0.0036	<0.0031	<0.0027	<0.0031	NA	NA	NA	NA

Table 3

Soil Analytical Data - Detected Constituents

Fashion Care/Executive Care - HSI # 10786

2211 Savoy Drive, Chamblee, Georgia

Sample Event								EZ-Serve Data																	
	Location	CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		UST Soil TL*	B-5	B-6	B-7	MW-2R	MW-4R	MW-8	MW-9	MW-9R	MW-10	MW-10R	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18
	Depth (feet bgs)							13.5-15	13.5-15	13.5-15	6-7	10-11	13.5-15	10	unknown	15	10-11	10-11	unknown	unknown	unknown	6-7	9-10	14-15	5-6
Constituent	Date Sampled		0-2'	>2'	0-2'	>2'		08/17/89	08/17/89	08/17/89	12/14/06	12/14/06	8/18/89	05/30/97	01/09/02	05/30/97	12/13/06	6/26/97	1/9/02	1/9/02	1/9/02	12/13/06	12/13/06	12/12/06	12/12/06
Volatile Organic Compounds (VOCs) - mg/kg													FPP				FPP							FPP	
1, 1-Dichloroethane		75-34-3	400	400	NC	NC	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2 Dichlorobenzene		95-50-1	60	60	45.8	45.8	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene		541-73-1	2.22	2.22	NC	NC	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene		106-46-7	6.84	6.84	NC	NC	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone		67-64-1	400	400	94.6	94.6	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene		71-43-2	PRC	PRC	PRC	PRC	0.02	**0.253**	**0.126**	<0.02	<0.001	<0.0008	**0.131**	<0.002	**0.250**	**1.18**	**1.80**	0.0153	<0.00069	<0.00078	<0.00079	**0.770**	<0.0009	**9.20**	0.0093
Toluene		108-88-3	PRC	PRC	PRC	PRC	135	0.604	0.325	<0.02	<0.001	<0.0008	0.036	<0.005	0.013	15.10	1.60	0.0386	<0.00069	<0.00078	0.0010	0.600	0.0009	56.00	0.0018
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC	28	0.101	0.042	<0.02	<0.001	<0.0008	0.040	<0.002	0.094	7.35	0.76	0.0443	<0.00069	<0.00078	0.00085	0.790	<0.0009	17.00	0.0011
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC	700	0.848	0.372	<0.02	<0.001	<0.0008	0.181	<0.002	0.016	33.00	3.41	0.3880	<0.0014	<0.0016	0.0025	3.800	0.0010	83.00	0.0013
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC	-	NA	NA	NA	NA	NA	NA	BDL	NA	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC	-	NA	NA	NA	NA	NA	NA	BDL	NA	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA
MTBE		1634-04-4	PRC	PRC	PRC	PRC	-	NA	NA	NA	<0.0049	<0.0042	NA	NA	<0.0031	NA	<0.21	NA	<0.0035	<0.0039	<0.0039	<0.18	<0.0046	2.10	<0.0044

Sample Event								EZ-Serve Data				
	Location	CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		UST Soil TL*	MW-19	MW-20	MW-21	MW-22	MW-23D
	Depth (feet bgs)							9.5-10.5	10-12	13-15	13-15	11-13
Constituent	Date Sampled		0-2'	>2'	0-2'	>2'		12/12/06	06/12/07	06/12/07	6/12/07	6/18/07
Volatile Organic Compounds (VOCs) - mg/kg												
1, 1-Dichloroethane		75-34-3	400	400	NC	NC	-	NA	NA	NA	NA	NA
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	-	NA	NA	NA	NA	NA
1,2 Dichlorobenzene		95-50-1	60	60	45.8	45.8	-	NA	NA	NA	NA	NA
1,3-Dichlorobenzene		541-73-1	2.22	2.22	NC	NC	-	NA	NA	NA	NA	NA
1,4-Dichlorobenzene		106-46-7	6.84	6.84	NC	NC	-	NA	NA	NA	NA	NA
Acetone		67-64-1	400	400	94.6	94.6	-	NA	NA	NA	NA	NA
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	-	NA	NA	NA	NA	NA
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	-	NA	NA	NA	NA	NA
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	-	NA	NA	NA	NA	NA
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	-	NA	NA	NA	NA	NA
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	-	NA	NA	NA	NA	NA
Benzene		71-43-2	PRC	PRC	PRC	PRC	0.02	0.0038	<0.0006	<0.0007	**3.80**	**2.60**
Toluene		108-88-3	PRC	PRC	PRC	PRC	135	0.0016	<0.0006	0.041	3.40	2.90
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC	28	<0.0008	<0.0006	0.120	7.80	2.40
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC	700	<0.0008	<0.0006	0.440	29.00	10.40
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC	-	NA	NA	NA	NA	NA
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC	-	NA	NA	NA	NA	NA
MTBE		1634-04-4	PRC	PRC	PRC	PRC	-	0.0040	<0.003	<0.0034	1.70	0.150

NOTES:

BOLD	Exceeds HSRA Type 3 RRS
BOLD	Exceeds HSRA Type 3 and 4 RRS
BOLD	Exceeds UST Program Soil Threshold Values
~ 8'	Sample collected below water table. Approximate depth to water table shown.
FPP	Monitoring well contained free-phase petroleum

* The applicable UST Threshold Level is Table B, Lower Groundwater Pollution Susceptibility Area, ≤ 500 feet to a Surface Water Body.

** RRS is taken from EPD CAP approval letter dated December 28, 2007, table of approved RRS in Condition 8.

NT Sample not collected

NA Sample not analyzed for the constituent

NR Constituent not regulated under HSRA

BDL Below laboratory practical quantitation limits; PQL unknown at this time 7/7/08

PRC Petroleum relalated constituents

NC RRS not calculated

Table 4
Water Table Elevation Data
Fashion Care/Executive Care - HSI # 10786
2211 Savoy Drive, Chamblee, Georgia

Well ID	Top of Casing Elevation (ft msl)	September 4, 2008				December 1-3, 2008			
		Depth to Free-Phase Petroleum (ft bgs)	Depth to Groundwater (ft bgs)	Free-Product Thickness (ft)	Groundwater Elevation (ft msl)	Depth to Free-Phase Petroleum (ft bgs)	Depth to Groundwater (ft bgs)	Free-Product Thickness (ft)	Groundwater Elevation (ft msl)
FMW-1	98.92	-	15.05	-	83.87	-	14.91	-	84.01
FMW-2	97.07	-	13.27	-	83.80	-	13.09	-	83.98
FMW-3	96.96	-	13.34	-	83.62	-	13.35	-	83.61
FMW-4	97.11	-	13.59	-	83.52	-	13.41	-	83.70
FMW-5	95.40	-	12.85	-	82.55	-	12.56	-	82.84
FMW-6	93.12	-	10.68	-	82.44	-	10.39	-	82.73
FMW-7	93.12	NI	NI	NI	NI	-	13.32	-	79.80
FMW-8	93.12	NI	NI	NI	NI	-	12.45	-	80.67
FMW-9	93.12	NI	NI	NI	NI	-	11.44	-	81.68
FMW-10	93.12	NI	NI	NI	NI	-	10.24	-	82.88
FMW-11	93.12	NI	NI	NI	NI	-	11.65	-	81.47
SB-24	98.56	-	14.50	-	84.06	-	NT	-	-
SB-25	98.50	-	dry	-	dry	-	14.38	-	84.12
SB-26	98.36	-	13.17	-	85.19	-	13.34	-	85.02
MW-1	98.51	13.95	15.80	1.85	82.71	13.65	16.09	2.44	82.42
MW-2R	98.38	-	13.83	-	84.55	-	13.50	-	84.88
MW-3	98.56	-	13.92	-	84.64	13.68	13.69	0.01	84.87
MW-4R	96.72	-	12.62	-	84.10	-	12.45	-	84.27
MW-8	96.62	-	13.54	-	83.08	13.30	13.31	0.01	83.31
MW-9R	97.11	13.85	13.88	0.03	83.23	-	13.65	-	83.46
MW-10R	Converted to Recovery Well								
MW-11	98.77	-	14.95	-	83.82	-	14.71	-	84.06
MW-12	97.52	-	13.64	-	83.88	-	13.43	-	84.09
MW-13	96.49	-	13.92	-	82.57	-	13.74	-	82.75
MW-14	96.59	-	14.08	-	82.51	-	13.81	-	82.78
MW-15	98.91	-	14.45	-	84.46	-	14.21	-	84.70
MW-16	98.54	-	13.75	-	84.79	-	13.54	-	85.00
MW-17	Converted to Recovery Well								
MW-18	96.68	-	12.61	-	84.07	-	12.41	-	84.27
MW-19	97.31	-	13.21	-	84.10	-	12.96	-	84.35
MW-20	97.86	-	13.62	-	84.24	-	13.44	-	84.42
MW-21	99.00	14.55	14.64	0.09	84.36	14.30	14.34	0.04	84.66
MW-22	99.48	-	14.89	-	84.59	-	14.64	-	84.84
MW-23D	96.13	-	13.00	-	83.13	-	12.79	-	83.34

NOTES:
ft msl, feet above mean sea level.
ft toc, feet below top of casing.
MW-5, MW-6 and MW-7 do not exist
-, denotes no free-phase petroleum was found in the well
NT, measurement not taken
NI, Monitoring well not installed

Table 5
Post -Remediation Soil Confirmation Samples - Dectected Constituents
May 2009
Fashion Care/Executive Care - HSI #10786
2211 Savoy Drive, Chamblee, Georgia

Sample Event							Fashion Care Data - Soil Confirmation Samples																	
Constituent	Location	CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		UST Soil TL*	SB-28	SB-28	SB-28	SB-29	SB-29	SB-29	SB-30	SB-30	SB-30	SB-31	SB-31	SB-31	SB-32	SB-32	SB-32	SB-33	SB-33	SB-33
	Depth (feet bgs)							0-2	4-6	8-10	0-2	4-6	8-10	0-2	4.5-6.5	8.5-10.5	0-2	4-6	7.5-9.5	0-2	3.5-5.5	6-8	0-2	4-6	7-9
	Date Sampled		0-2'	>2'	0-2'	>2'		05/08/09	05/08/09	05/08/09	5/8/09	5/8/09	05/08/09	05/08/09	5/8/09	5/8/09	05/08/09	05/08/09	5/8/09	5/8/09	5/8/09	5/8/09	5/8/09	5/8/09	5/8/09
Volatile Organic Compounds (VOCs) - mg/kg																									
1, 1-Dichloroethane		75-34-3	400	400	NC	NC	-																		
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	-																		
1,2 Dichlorobenzene		95-50-1	60	60	45.8	45.8	-																		
1,3-Dichlorobenzene		541-73-1	2.22	2.22	NC	NC	-																		
1,4-Dichlorobenzene		106-46-7	6.84	6.84	NC	NC	-																		
Acetone		67-64-1	400	400	94.6	94.6	-				0.520	0.0690	0.0450												
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	-	0.50	**73.0**	**10.0**	0.0140	0.0910	0.290	0.130	2.80	6.20	0.20	1.60	0.190		0.270	2.50	0.130	0.590	0.20
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	-	**0.980**	**52.0**	**37.0**	0.0031	0.0220	0.0023	**2.30**	**6.70**	**1.50**	**3.40**	**4.50**	0.30	**15.0**	**1400.0**	**3800.0**	**2300.0**	**100.0**	**8.10**
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	-		0.830	0.0640		0.0016	0.0067			0.0410						0.110			
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	-	0.20	**15.0**	**4.0**		0.0021		0.160	**3.40**	**2.30**	0.270	**1.70**	0.350		**3.40**	**30.0**	**4.40**	**1.70**	0.440
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	-						0.0670												
Benzene		71-43-2	PRC	PRC	PRC	PRC	0.02				0.0180	0.0046	**0.0570**			**0.07**						**0.034**			
Toluene		108-88-3	PRC	PRC	PRC	PRC	135				0.0049	0.0081	0.0370			0.21					0.026	0.210			
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC	28				0.0011	0.0019	0.0190			0.051						0.30			
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC	700			0.0460		0.00073	0.070			0.147						0.710			
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC	-					0.0077	0.0210												
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC	-						0.0011												
MTBE		1634-04-4	PRC	PRC	PRC	PRC	-																		

Sample Event							Fashion Care Data - Soil Confirmation Samples								
Constituent	Location	CAS NUMBER	HSRA Type 3 RRS		HSRA Type 4 RRS		UST Soil TL*	SB-34	SB-34	SB-34	SB-35	SB-35	SB-35	SB-36	SB-36	SB-36
	Depth (feet bgs)							0-2	2.5-4.5	5-7	0-2	2.5-4.5	5-7	0-2	3-5	6-8
	Date Sampled		0-2'	>2'	0-2'	>2'		05/18/09	05/18/09	05/18/09	5/18/09	5/18/09	5/18/09	5/18/09	5/18/09	5/18/09
Volatile Organic Compounds (VOCs) - mg/kg																
1, 1-Dichloroethane		75-34-3	400	400	NC	NC	-									
1, 1-Dichloroethene (1,1-DCE)		75-35-4	0.7	0.7	6.86	6.86	-									
1,2 Dichlorobenzene		95-50-1	60	60	45.8	45.8	-									
1,3-Dichlorobenzene		541-73-1	2.22	2.22	NC	NC	-									
1,4-Dichlorobenzene		106-46-7	6.84	6.84	NC	NC	-									
Acetone		67-64-1	400	400	94.6	94.6	-									
cis-1, 2-Dichloroethene		156-59-2	NC	NC	6.12**	6.12**	-			0.31		1.5	0.14	0.26	1.7	0.32
Tetrachloroethene (PCE)		127-18-4	0.5**	0.5**	NC	NC	-	0.24	**2.6**	0.39	0.27	**1.0**	0.12	**0.59**		0.11
trans-1, 2-Dichloroethene		156-60-5	NC	NC	13.6**	13.6**	-									
Trichloroethene (TCE)		79-01-6	0.5**	0.5**	NC	NC	-		0.053	0.26		0.15		0.11		
Vinyl Chloride (VC)		75-01-4	0.2**	0.2**	NC	NC	-									
Benzene		71-43-2	PRC	PRC	PRC	PRC	0.02					**0.053**			**0.061**	
Toluene		108-88-3	PRC	PRC	PRC	PRC	135								0.035	0.036
Ethylbenzene		100-41-4	PRC	PRC	PRC	PRC	28									0.027
Total Xylenes		1330-20-7	PRC	PRC	PRC	PRC	700									
Cyclohexane		110-82-7	PRC	PRC	PRC	PRC	-									
Isopropylbenzene		98-82-8	PRC	PRC	PRC	PRC	-									
MTBE		1634-04-4	PRC	PRC	PRC	PRC	-									

NOTES:

BOLD Exceeds HSRA Type 3 RRS
BOLD Exceeds HSRA Type 3 and 4 RRS
BOLD Exceeds UST Program Soil Threshold Values

* The applicable UST Threshold Level is Table B, Lower Groundwater Pollution Susceptibility Area, ≤ 500 feet to a Surface Water Body.

NC Type 4 RRS not calculated

PRC Petroleum relalated constituents

** RRS is taken from EPD CAP approval letter dated December 28, 2007, table of a

ATTACHMENT C
LABORATORY DATA SHEETS
(on CD)

WINTER
ENVIRONMENTAL

September 2008 Analytical Data
Winter Environmental

WINTER ENVIRONMENTAL

Analytical Report 312101

for

Winter Environmental

Project Manager: Len Diprima

Fashion Care

08096

18-SEP-08

E84880

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South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

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Midland - Corpus Christi - Atlanta

18-SEP-08

Project Manager: **Len Diprima**
Winter Environmental
3350 Green Pointe Parkway
Norcross, GA 30092

Reference: XENCO Report No: **312101**
Fashion Care
Project Address: GA

Len Diprima:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 312101. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 312101 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

David C. Fuller
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
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Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 312101

Winter Environmental, Norcross, GA

Fashion Care

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-23D	W	Sep-09-08 10:20		312101-001
MW-9R	W	Sep-09-08 10:55		312101-002
MW-2R	W	Sep-09-08 12:25		312101-003
MW-11	W	Sep-09-08 14:20		312101-004
IDW Water	W	Sep-09-08 14:50		312101-005
IDW Soil	W	Sep-09-08 15:05		312101-006
TBLK03308	W	Sep-09-08 09:00		312101-007

Certificate of Analytical Results 312101

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-23D**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-001**	Date Collected: **Sep-09-08 10:20**	Date Received: **Sep-09-08 15:57**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 12:45 Analyst: 4154 Date Prep: Sep-10-08 12:00 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		U	2.00	1.50	mg/L	U	1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		16	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 15:10 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	0.164	0.100	0.017	mg/L		1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	3.9	1.0	0.062	mg/L		1
Sulfate	14808-79-8	3.5	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 14:14 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.004	mg/L	U	1
Barium	7440-39-3	0.029	0.050	0.001	mg/L	J	1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	0.002	0.050	0.001	mg/L	J	1
Copper	7440-50-8	0.004	0.050	0.002	mg/L	J	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	8.76	5.00	0.702	mg/L		1

Project: Xenco-Atlanta Master Project

Version: 1.015

Certificate of Analytical Results 312101

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-23D** Matrix: **WATER** % Moisture:
Lab Sample Id: **312101-001** Date Collected: **Sep-09-08 10:20** Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 18:47 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	33	2.0	0.35	ug/L		1
Benzene	71-43-2	U	1.0	0.16	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	3.4	1.0	0.21	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	1.8	2.0	0.18	ug/L	J	1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.015

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-23D**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-001**	Date Collected: **Sep-09-08 10:20**	Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 18:47 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	1700	20	3.2	ug/L	D	20
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	28	1.0	0.19	ug/L		1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	1.1	2.0	0.51	ug/L	J	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	1.1			ug/L		1

Project: Xenco-Atlanta Master Project

Version: 1.015

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-9R**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-002**	Date Collected: **Sep-09-08 10:55**	Date Received: **Sep-09-08 15:57**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 12:45 Analyst: 4154 Date Prep: Sep-10-08 12:00 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		16.4	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		65	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 15:11 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	4.89	0.100	0.017	mg/L		1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	12	1.0	0.062	mg/L		1
Sulfate	14808-79-8	U	1.0	0.062	mg/L	U	1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 14:16 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.006	0.010	0.004	mg/L	JB	1
Barium	7440-39-3	0.081	0.050	0.001	mg/L		1
Cadmium	7440-43-9	0.001	0.005	0.001	mg/L	J	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	0.004	0.050	0.002	mg/L	J	1
Lead	7439-92-1	0.008	0.010	0.004	mg/L	J	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	9.90	5.00	0.702	mg/L		1

Project: Xenco-Atlanta Master Project

Version: 1.015

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-9R**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-002**	Date Collected: **Sep-09-08 10:55**	Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 21:09 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	10	1.6	ug/L	U	10
1,1,2,2-Tetrachloroethane	79-34-5	U	10	1.8	ug/L	U	10
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	10	1.1	ug/L	U	10
1,1,2-Trichloroethane	79-00-5	U	10	2.5	ug/L	U	10
1,1-Dichloroethane	75-34-3	U	10	1.1	ug/L	U	10
1,1-Dichloroethene	75-35-4	U	10	2.0	ug/L	U	10
1,2,4-Trichlorobenzene	120-82-1	U	10	1.7	ug/L	U	10
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	10	1.9	ug/L	U	10
1,2-Dibromoethane (EDB)	106-93-4	U	10	1.8	ug/L	U	10
1,2-Dichlorobenzene	95-50-1	U	10	1.4	ug/L	U	10
1,2-Dichloroethane	107-06-2	U	10	1.8	ug/L	U	10
1,2-Dichloropropane	78-87-5	U	10	1.5	ug/L	U	10
1,3-Dichlorobenzene	541-73-1	U	10	1.7	ug/L	U	10
1,4-Dichlorobenzene	106-46-7	U	10	1.7	ug/L	U	10
1,4-Dioxane	123-91-1	U	200	88	ug/L	U	10
2-Butanone (MEK)	78-93-3	U	20	2.8	ug/L	U	10
2-Hexanone	591-78-6	U	20	3.2	ug/L	U	10
4-Methyl-2-pentanone (MIBK)	108-10-1	U	20	2.6	ug/L	U	10
Acetone	67-64-1	U	20	3.5	ug/L	U	10
Benzene	71-43-2	1600	500	80	ug/L	D	500
Bromodichloromethane	75-27-4	U	10	2.5	ug/L	U	10
Bromoform	75-25-2	U	10	1.7	ug/L	U	10
Bromomethane	74-83-9	U	10	2.5	ug/L	U	10
Carbon disulfide	75-15-0	U	10	2.6	ug/L	U	10
Carbon tetrachloride	56-23-5	U	10	3.3	ug/L	U	10
Chlorobenzene	108-90-7	U	10	1.5	ug/L	U	10
Chloroethane	75-00-3	U	10	2.6	ug/L	U	10
Chloroform	67-66-3	U	10	1.6	ug/L	U	10
Chloromethane	74-87-3	U	10	2.5	ug/L	U	10
cis-1,2-Dichloroethene	156-59-2	220	10	2.1	ug/L		10
cis-1,3-Dichloropropene	10061-01-5	U	10	1.0	ug/L	U	10
Cyclohexane	110-82-7	140	10	1.5	ug/L		10
Dibromochloromethane	124-48-1	U	10	1.5	ug/L	U	10
Dichlorodifluoromethane	75-71-8	U	10	2.2	ug/L	U	10
Ethylbenzene	100-41-4	2000	10	1.9	ug/L		10
Isopropylbenzene	98-82-8	190	10	1.5	ug/L		10
Methyl acetate	79-20-9	U	20	2.6	ug/L	U	10
Methyl tert-butyl ether	1634-04-4	U	20	1.8	ug/L	U	10
Methylcyclohexane	108-87-2	57	10	1.1	ug/L		10

Project: Xenco-Atlanta Master Project

Version: 1.015

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-9R**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-002**	Date Collected: **Sep-09-08 10:55**	Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 21:09 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	10	4.2	ug/L	U	10
Styrene	100-42-5	U	10	1.8	ug/L	U	10
Tetrachloroethene	127-18-4	100	10	1.6	ug/L		10
Toluene	108-88-3	260	10	1.4	ug/L		10
trans-1,2-Dichloroethene	156-60-5	U	10	2.1	ug/L	U	10
trans-1,3-Dichloropropene	10061-02-6	U	10	1.1	ug/L	U	10
Trichloroethene	79-01-6	22	10	1.9	ug/L		10
Trichlorofluoromethane	75-69-4	U	10	5.3	ug/L	U	10
Vinyl chloride	75-01-4	100	10	1.9	ug/L		10
m,p-Xylenes	179601-23-1	3500	20	5.1	ug/L		10
o-Xylene	95-47-6	550	10	2.0	ug/L		10
Xylenes, Total	1330-20-7	4050			ug/L		10

Project: Xenco-Atlanta Master Project

Version: 1.015

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-2R**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-003**	Date Collected: **Sep-09-08 12:25**	Date Received: **Sep-09-08 15:57**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 12:45 Analyst: 4154 Date Prep: Sep-10-08 12:00 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		4.65	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		9.5	10	5.3	mg/L	J	1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 15:13 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	U	0.100	0.017	mg/L	U	1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	25	1.0	0.062	mg/L		1
Sulfate	14808-79-8	2.2	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 14:18 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.004	mg/L	U	1
Barium	7440-39-3	0.143	0.050	0.001	mg/L		1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	0.002	0.050	0.001	mg/L	J	1
Copper	7440-50-8	0.003	0.050	0.002	mg/L	J	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	12.0	5.00	0.702	mg/L		1

Project: Xenco-Atlanta Master Project

Version: 1.015

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-2R**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-003**	Date Collected: **Sep-09-08 12:25**	Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-16-08 23:48 Analyst: 4124 Date Prep: Sep-16-08 16:48 Tech: 4124

Seq Number: 734293

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	U	1.0	0.16	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.0	0.21	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.0	0.18	ug/L	U	1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.015

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-2R**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-003**	Date Collected: **Sep-09-08 12:25**	Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-16-08 23:48 Analyst: 4124 Date Prep: Sep-16-08 16:48 Tech: 4124

Seq Number: 734293

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.0	0.16	ug/L	U	1
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	U	1.0	0.19	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.015

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-11**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-004**	Date Collected: **Sep-09-08 14:20**	Date Received: **Sep-09-08 15:57**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 12:45 Analyst: 4154 Date Prep: Sep-10-08 12:00 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		3.89	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		21	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 15:15 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	2.98	0.100	0.017	mg/L		1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	4.2	1.0	0.062	mg/L		1
Sulfate	14808-79-8	3.3	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 14:20 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.004	mg/L	U	1
Barium	7440-39-3	0.034	0.050	0.001	mg/L	J	1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	U	0.050	0.002	mg/L	U	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	7.32	5.00	0.702	mg/L		1

Project: Xenco-Atlanta Master Project

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-11** Matrix: **WATER** % Moisture:
Lab Sample Id: **312101-004** Date Collected: **Sep-09-08 14:20** Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 19:43 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	5.2	1.0	0.16	ug/L		1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.0	0.21	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	1.4	1.0	0.19	ug/L		1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	13	2.0	0.18	ug/L		1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.015

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-11**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-004**	Date Collected: **Sep-09-08 14:20**	Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 19:43 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	2.8	1.0	0.16	ug/L		1
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	U	1.0	0.19	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.015

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **IDW Water** Matrix: **WATER** % Moisture:
Lab Sample Id: **312101-005** Date Collected: **Sep-09-08 14:50** Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 20:10 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	1.5	1.0	0.20	ug/L		1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	1.8	1.0	0.14	ug/L		1
1,2-Dichloroethane	107-06-2	23	1.0	0.18	ug/L		1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	6.6	2.0	0.32	ug/L		1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	1200	250	34	ug/L	D	50
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	3000	250	40	ug/L	D	50
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	16	1.0	0.15	ug/L		1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	160	1.0	0.19	ug/L		1
Isopropylbenzene	98-82-8	7.1	1.0	0.15	ug/L		1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	350	2.0	0.18	ug/L		1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **IDW Water**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-005**	Date Collected: **Sep-09-08 14:50**	Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 20:10 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	6900	250	88	ug/L	D	50
Toluene	108-88-3	640	250	34	ug/L	D	50
trans-1,2-Dichloroethene	156-60-5	41	1.0	0.21	ug/L		1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	1400	250	36	ug/L	D	50
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	140	1.0	0.19	ug/L		1
m,p-Xylenes	179601-23-1	710	250	61	ug/L	D	50
o-Xylene	95-47-6	360	250	29	ug/L	D	50
Xylenes, Total	1330-20-7	1070			ug/L	D	50

Project: Xenco-Atlanta Master Project

Version: 1.015

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **IDW Soil**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-006**	Date Collected: **Sep-09-08 15:05**	Date Received: **Sep-09-08 15:57**

Analytical Method: TCLP Metals by SW-846 1311/6010B Prep Method: SW3010A

Date Analyzed: Sep-12-08 12:46 Analyst: 4150 Date Prep: Sep-11-08 10:15 Tech: ABA
Seq Number: 734106

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.015	0.500	0.008	mg/L	JB	2
Barium	7440-39-3	0.925	0.500	0.001	mg/L		2
Cadmium	7440-43-9	U	0.500	0.001	mg/L	U	2
Chromium	7440-47-3	0.003	0.500	0.003	mg/L	J	2
Lead	7439-92-1	0.008	0.500	0.008	mg/L	JB	2
Selenium	7782-49-2	0.017	0.500	0.007	mg/L	JB	2
Silver	7440-22-4	U	0.500	0.001	mg/L	U	2

Analytical Method: TCLP Mercury by SW1311/7470A Prep Method: SW7470P

Date Analyzed: Sep-12-08 12:00 Analyst: 4150 Date Prep: Sep-11-08 10:17 Tech: ABA
Seq Number: 734102

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Mercury	7439-97-6	U	0.0100	0.0003	mg/L	U	5

Analytical Method: TCLP SVOCs by SW-846 1311/8270C Prep Method: SW3510C

Date Analyzed: Sep-15-08 19:10 Analyst: 4147 Date Prep: Sep-15-08 09:30 Tech: 4155
Seq Number: 734357

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,4-Dichlorobenzene	106-46-7	U	100	16.1	mg/L	U	1
2,4,5-Trichlorophenol	95-95-4	U	100	26.2	mg/L	U	1
2,4,6-Trichlorophenol	88-06-2	U	100	16.4	mg/L	U	1
2,4-Dinitrotoluene	121-14-2	U	100	21.4	mg/L	U	1
2-Methylphenol	95-48-7	U	100	20.0	mg/L	U	1
3&4-Methylphenol		U	200	25.5	mg/L	U	1
Hexachlorobenzene	118-74-1	U	100	22.1	mg/L	U	1
Hexachlorobutadiene	87-68-3	U	100	17.8	mg/L	U	1
Hexachloroethane	67-72-1	U	100	23.8	mg/L	U	1
Nitrobenzene	98-95-3	U	100	14.9	mg/L	U	1
Pentachlorophenol	87-86-5	U	200	22.6	mg/L	U	1
Pyridine	110-86-1	U	100	26.5	mg/L	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **IDW Soil**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312101-006**	Date Collected: **Sep-09-08 15:05**	Date Received: **Sep-09-08 15:57**

Analytical Method: TCLP VOCs by SW1311/8260B Prep Method: SW5030B

Date Analyzed: Sep-17-08 15:48 Analyst: 4124 Date Prep: Sep-17-08 06:51 Tech: 4124

Seq Number: 734474

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethene	75-35-4	U	0.050	0.0098	mg/L	U	10
1,2-Dichloroethane	107-06-2	U	0.050	0.0082	mg/L	U	10
2-Butanone (MEK)	78-93-3	U	0.50	0.013	mg/L	U	10
Benzene	71-43-2	U	0.050	0.0067	mg/L	U	10
Carbon tetrachloride	56-23-5	U	0.050	0.0089	mg/L	U	10
Chlorobenzene	108-90-7	U	0.050	0.0059	mg/L	U	10
Chloroform	67-66-3	U	0.050	0.014	mg/L	U	10
Tetrachloroethene	127-18-4	U	0.050	0.018	mg/L	U	10
Trichloroethene	79-01-6	U	0.050	0.0072	mg/L	U	10
Vinyl chloride	75-01-4	U	0.020	0.011	mg/L	U	10

Project: Xenco-Atlanta Master Project

Version: 1.015

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **TBLK03308** Matrix: **WATER** % Moisture:
Lab Sample Id: **312101-007** Date Collected: **Sep-09-08 09:00** Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-16-08 19:59 Analyst: 4124 Date Prep: Sep-16-08 16:48 Tech: 4124
Seq Number: 734293

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	U	1.0	0.16	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.0	0.21	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.0	0.18	ug/L	U	1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.015

Certificate of Analytical Results 312101

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **TBLK03308** Matrix: **WATER** % Moisture:
Lab Sample Id: **312101-007** Date Collected: **Sep-09-08 09:00** Date Received: **Sep-09-08 15:57**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-16-08 19:59 Analyst: 4124 Date Prep: Sep-16-08 16:48 Tech: 4124
Seq Number: 734293

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.0	0.16	ug/L	U	1
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	U	1.0	0.19	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.015

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

* Outside XENCO'S scope of NELAC Accreditation

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312101, **Project ID:** 08096

Lab Batch #: 734130 **Sample:** 312032-001 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	44.02	50.00	88	53-159	
4-Bromofluorobenzene	50.39	50.00	101	30-186	
Toluene-D8	49.85	50.00	100	70-130	

Lab Batch #: 734130 **Sample:** 312032-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	44.34	50.00	89	53-159	
4-Bromofluorobenzene	50.94	50.00	102	30-186	
Toluene-D8	49.95	50.00	100	70-130	

Lab Batch #: 734130 **Sample:** 312101-001 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49.14	50.00	98	53-159	
4-Bromofluorobenzene	50.00	50.00	100	30-186	
Toluene-D8	51.13	50.00	102	70-130	

Lab Batch #: 734130 **Sample:** 312101-002 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49.17	50.00	98	53-159	
4-Bromofluorobenzene	49.78	50.00	100	30-186	
Toluene-D8	49.29	50.00	99	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312101, **Project ID:** 08096

Lab Batch #: 734130 **Sample:** 312101-004 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49.24	50.00	98	53-159	
4-Bromofluorobenzene	50.53	50.00	101	30-186	
Toluene-D8	49.58	50.00	99	70-130	

Lab Batch #: 734130 **Sample:** 312101-005 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54.49	50.00	109	53-159	
4-Bromofluorobenzene	50.39	50.00	101	30-186	
Toluene-D8	53.37	50.00	107	70-130	

Lab Batch #: 734130 **Sample:** 515635-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	45.14	50.00	90	53-159	
4-Bromofluorobenzene	50.70	50.00	101	30-186	
Toluene-D8	49.32	50.00	99	77-124	

Lab Batch #: 734130 **Sample:** 515635-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52.73	50.00	105	53-159	
4-Bromofluorobenzene	50.78	50.00	102	30-186	
Toluene-D8	49.66	50.00	99	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312101, **Project ID:** 08096

Lab Batch #: 734291 **Sample:** 312101-001 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47.73	50.00	95	53-159	
4-Bromofluorobenzene	51.41	50.00	103	30-186	
Toluene-D8	44.24	50.00	88	70-130	

Lab Batch #: 734291 **Sample:** 312101-002 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48.98	50.00	98	53-159	
4-Bromofluorobenzene	51.22	50.00	102	30-186	
Toluene-D8	44.66	50.00	89	70-130	

Lab Batch #: 734291 **Sample:** 312476-001 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	41.37	50.00	83	53-159	
4-Bromofluorobenzene	51.28	50.00	103	30-186	
Toluene-D8	44.62	50.00	89	70-130	

Lab Batch #: 734291 **Sample:** 312476-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	40.96	50.00	82	53-159	
4-Bromofluorobenzene	51.39	50.00	103	30-186	
Toluene-D8	44.66	50.00	89	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312101, **Project ID:** 08096

Lab Batch #: 734291 **Sample:** 515718-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	41.59	50.00	83	53-159	
4-Bromofluorobenzene	51.03	50.00	102	30-186	
Toluene-D8	44.52	50.00	89	70-130	

Lab Batch #: 734291 **Sample:** 515718-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48.19	50.00	96	53-159	
4-Bromofluorobenzene	51.39	50.00	103	30-186	
Toluene-D8	44.42	50.00	89	70-130	

Lab Batch #: 734293 **Sample:** 311875-001 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	35	50.00	70	53-159	
4-Bromofluorobenzene	49	50.00	98	30-186	
Toluene-D8	47	50.00	94	77-124	

Lab Batch #: 734293 **Sample:** 311875-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	36	50.00	72	53-159	
4-Bromofluorobenzene	48	50.00	96	30-186	
Toluene-D8	47	50.00	94	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312101, **Project ID:** 08096

Lab Batch #: 734293 **Sample:** 312101-003 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	40.64	50.00	81	53-159	
4-Bromofluorobenzene	50.10	50.00	100	30-186	
Toluene-D8	47.74	50.00	95	77-124	

Lab Batch #: 734293 **Sample:** 312101-005 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	40.39	50.00	81	53-159	
4-Bromofluorobenzene	50.10	50.00	100	30-186	
Toluene-D8	48.84	50.00	98	77-124	

Lab Batch #: 734293 **Sample:** 312101-007 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	38.75	50.00	78	53-159	
4-Bromofluorobenzene	51.28	50.00	103	30-186	
Toluene-D8	46.73	50.00	93	77-124	

Lab Batch #: 734293 **Sample:** 515720-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	38	50.00	76	53-159	
4-Bromofluorobenzene	50	50.00	100	30-186	
Toluene-D8	47	50.00	94	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312101, **Project ID:** 08096

Lab Batch #: 734293 **Sample:** 515720-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	38.08	50.00	76	53-159	
4-Bromofluorobenzene	50.73	50.00	102	30-186	
Toluene-D8	46.83	50.00	94	77-124	

Lab Batch #: 734357 **Sample:** 312101-006 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP SVOCs by SW-846 1311/8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2,4,6-Tribromophenol	771000	1000000	77	32-117	
2-Fluorobiphenyl	378000	500000	76	35-96	
2-Fluorophenol	617000	1000000	62	29-87	
Nitrobenzene-d5	351000	500000	70	22-108	
Phenol-d5	538000	1000000	54	28-88	
Terphenyl-D14	556000	500000	111	18-133	

Lab Batch #: 734357 **Sample:** 312101-006 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP SVOCs by SW-846 1311/8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2,4,6-Tribromophenol	730000	1000000	73	32-117	
2-Fluorobiphenyl	336000	500000	67	35-96	
2-Fluorophenol	566000	1000000	57	29-87	
Nitrobenzene-d5	339000	500000	68	22-108	
Phenol-d5	491000	1000000	49	28-88	
Terphenyl-D14	498000	500000	100	18-133	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312101, **Project ID:** 08096

Lab Batch #: 734357 **Sample:** 312101-006 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP SVOCs by SW-846 1311/8270C Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2,4,6-Tribromophenol	463000	1000000	46	32-117	
2-Fluorobiphenyl	194000	500000	39	35-96	
2-Fluorophenol	298000	1000000	30	29-87	
Nitrobenzene-d5	183000	500000	37	22-108	
Phenol-d5	329000	1000000	33	28-88	
Terphenyl-D14	388000	500000	78	18-133	

Lab Batch #: 734357 **Sample:** 515624-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP SVOCs by SW-846 1311/8270C Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2,4,6-Tribromophenol	791000	1000000	79	32-117	
2-Fluorobiphenyl	384000	500000	77	35-96	
2-Fluorophenol	707000	1000000	71	29-87	
Nitrobenzene-d5	400000	500000	80	22-108	
Phenol-d5	622000	1000000	62	28-88	
Terphenyl-D14	626000	500000	125	18-133	

Lab Batch #: 734357 **Sample:** 515624-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP SVOCs by SW-846 1311/8270C Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2,4,6-Tribromophenol	786000	1000000	79	32-117	
2-Fluorobiphenyl	389000	500000	78	35-96	
2-Fluorophenol	700000	1000000	70	29-87	
Nitrobenzene-d5	396000	500000	79	22-108	
Phenol-d5	598000	1000000	60	28-88	
Terphenyl-D14	660000	500000	132	18-133	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312101, **Project ID:** 08096

Lab Batch #: 734474 **Sample:** 312101-006 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48	50	96	53-159	
4-Bromofluorobenzene	52	50	104	30-186	
Toluene-D8	44	50	88	77-124	

Lab Batch #: 734474 **Sample:** 312228-008 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	41	50	82	53-159	
4-Bromofluorobenzene	52	50	104	30-186	
Toluene-D8	44	50	88	77-124	

Lab Batch #: 734474 **Sample:** 312228-008 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	42	50	84	53-159	
4-Bromofluorobenzene	52	50	104	30-186	
Toluene-D8	44	50	88	77-124	

Lab Batch #: 734474 **Sample:** 515818-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	43	50	86	53-159	
4-Bromofluorobenzene	51	50	102	30-186	
Toluene-D8	44	50	88	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312101, **Project ID:** 08096

Lab Batch #: 734474 **Sample:** 515818-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48	50	96	53-159	
4-Bromofluorobenzene	52	50	104	30-186	
Toluene-D8	43	50	86	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 312101 **Project ID:** 08096

Lab Batch #: 734130 **Sample:** 515635-1-BKS **Matrix:** Water
Date Analyzed: 09/13/2008 **Date Prepared:** 09/13/2008 **Analyst:** NTR
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.0	50	42	84	70-130	
Benzene	<1.0	50	43	86	80-120	
Chlorobenzene	<1.0	50	43	86	80-120	
Toluene	<1.0	50	42	84	75-120	
Trichloroethene	<1.0	50	44	88	70-125	

Lab Batch #: 734291 **Sample:** 515718-1-BKS **Matrix:** Water
Date Analyzed: 09/16/2008 **Date Prepared:** 09/16/2008 **Analyst:** NTR
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.0	50	52	104	70-130	
Benzene	<1.0	50	48	96	80-120	
Chlorobenzene	<1.0	50	48	96	80-120	
Toluene	<1.0	50	48	96	75-120	
Trichloroethene	<1.0	50	46	92	70-125	

Lab Batch #: 734293 **Sample:** 515720-1-BKS **Matrix:** Water
Date Analyzed: 09/16/2008 **Date Prepared:** 09/16/2008 **Analyst:** 4124
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.0	50	46	92	70-130	
Benzene	<1.0	50	43	86	80-120	
Chlorobenzene	<1.0	50	41	82	80-120	
Toluene	<1.0	50	42	84	75-120	
Trichloroethene	<1.0	50	42	84	70-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 312101 **Project ID:** 08096

Lab Batch #: 734357 **Sample:** 515624-1-BKS **Matrix:** Water
Date Analyzed: 09/16/2008 **Date Prepared:** 09/15/2008 **Analyst:** 4147
Reporting Units: mg/L **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

TCLP SVOCs by SW-846 1311/8270C Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,4-Dichlorobenzene	<100	500	393	79	10-87	
2,4-Dinitrotoluene	<100	500	356	71	23-124	
Pentachlorophenol	<200	1000	402	40	22-120	

Lab Batch #: 734474 **Sample:** 515818-1-BKS **Matrix:** Water
Date Analyzed: 09/17/2008 **Date Prepared:** 09/17/2008 **Analyst:** 4124
Reporting Units: mg/L **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

TCLP VOCs by SW1311/8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<0.050	0.50	0.50	100	70-130	
1,2-Dichloroethane	<0.050	0.50	0.48	96	70-130	
2-Butanone (MEK)	<0.50	1.0	1.1	110	30-150	
Benzene	<0.050	0.50	0.46	92	80-120	
Carbon tetrachloride	<0.050	0.50	0.50	100	65-140	
Chlorobenzene	<0.050	0.50	0.47	94	80-120	
Chloroform	<0.050	0.50	0.46	92	65-135	
Tetrachloroethene	<0.050	0.50	0.46	92	45-150	
Trichloroethene	<0.050	0.50	0.53	106	70-125	
Vinyl chloride	<0.020	0.50	0.53	106	50-145	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 312101 **Project ID:** 08096

Analyst: 4154 **Date Prepared:** 09/10/2008 **Date Analyzed:** 09/15/2008

Lab Batch ID: 734170 **Sample:** 515657-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BOD by SM5210B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	<2.00	200	187	94	200	191	96	2	70-120	20	

Analyst: SBA **Date Prepared:** 09/10/2008 **Date Analyzed:** 09/10/2008

Lab Batch ID: 733955 **Sample:** 733955-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chemical Oxygen Demand by SM 5220D Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	<10	200	210	105	200	220	110	5	71-128	20	

Analyst: 4150 **Date Prepared:** 09/10/2008 **Date Analyzed:** 09/11/2008

Lab Batch ID: 733922 **Sample:** 515438-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	0.023	11.0	9.70	88	11	9.73	88	0	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 312101 **Project ID:** 08096

Analyst: SNL **Date Prepared:** 09/12/2008 **Date Analyzed:** 09/12/2008

Lab Batch ID: 734167 **Sample:** 734167-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by SW-846 9056 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<1.0	10	9.1	91	10	9.2	92	1	70-125	20	
Sulfate	<1.0	10	9.0	90	10	9.1	91	1	70-125	20	

Analyst: 4150 **Date Prepared:** 09/10/2008 **Date Analyzed:** 09/11/2008

Lab Batch ID: 733894 **Sample:** 515442-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Metals, Total by SW846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.005	1.00	0.959	96	1	0.956	96	0	75-125	20	
Barium	<0.050	1.00	0.973	97	1	0.973	97	0	75-125	20	
Cadmium	<0.005	1.00	0.996	100	1	0.995	100	0	75-125	20	
Chromium	<0.050	1.00	0.995	100	1	0.998	100	0	75-125	20	
Copper	0.002	1.00	0.989	99	1	0.989	99	0	75-125	20	
Lead	<0.010	1.00	0.983	98	1	0.985	99	0	75-125	20	
Selenium	<0.010	1.00	0.979	98	1	0.979	98	0	75-125	20	
Sodium	<5.00	9.00	10.2	113	9	10.2	113	0	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 312101 **Project ID:** 08096

Analyst: 4150 **Date Prepared:** 09/11/2008 **Date Analyzed:** 09/12/2008

Lab Batch ID: 734106 **Sample:** 515476-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TCLP Metals by SW-846 1311/6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.028	4.00	4.10	103	4	3.99	100	3	75-125	20	
Barium	0.009	4.00	3.79	95	4	3.71	93	2	75-125	20	
Cadmium	<0.500	4.00	3.88	97	4	3.80	95	2	75-125	20	
Chromium	<0.500	4.00	3.91	98	4	3.83	96	2	75-125	20	
Lead	0.016	4.00	3.78	95	4	3.70	93	2	75-125	20	
Selenium	<0.500	4.00	4.26	107	4	4.14	104	3	75-125	20	
Silver	<0.500	4.00	4.00	100	4	3.92	98	2	75-125	20	

Analyst: 4150 **Date Prepared:** 09/11/2008 **Date Analyzed:** 09/12/2008

Lab Batch ID: 734102 **Sample:** 515478-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TCLP Mercury by SW1311/7470A Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	<0.0100	0.0250	0.0252	101	0.025	0.0247	99	2	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 312101 **Project ID:** 08096

Lab Batch ID: 733955 **QC- Sample ID:** 312101-001 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 09/10/2008 **Date Prepared:** 09/10/2008 **Analyst:** SBA
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chemical Oxygen Demand by SM 5220D Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	16	200	240	112	200	230	107	5	71-128	20	

Lab Batch ID: 733922 **QC- Sample ID:** 311894-005 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	11.0	9.93	90	11.0	10.6	96	6	75-125	20	

Lab Batch ID: 734167 **QC- Sample ID:** 312032-001 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 09/12/2008 **Date Prepared:** 09/12/2008 **Analyst:** SNL
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by SW-846 9056 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	5.4	10	14	86	10	14	86	0	70-125	20	
Sulfate	<1.0	10	15	150	10	15	150	0	70-125	20	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 312101 **Project ID:** 08096

Lab Batch ID: 733894 **QC- Sample ID:** 312032-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Metals, Total by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.010	1.00	0.976	98	1.00	1.01	101	3	75-125	20	
Barium	0.017	1.00	0.996	98	1.00	1.02	100	2	75-125	20	
Cadmium	<0.005	1.00	1.00	100	1.00	1.03	103	3	75-125	20	
Chromium	<0.050	1.00	1.01	101	1.00	1.03	103	2	75-125	20	
Copper	0.003	1.00	1.00	100	1.00	1.02	102	2	75-125	20	
Lead	<0.010	1.00	0.989	99	1.00	1.01	101	2	75-125	20	
Selenium	0.003	1.00	0.995	99	1.00	1.02	102	3	75-125	20	
Sodium	9.02	9.00	18.3	103	9.00	18.8	109	6	75-125	20	

Lab Batch ID: 734130 **QC- Sample ID:** 312032-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/13/2008 **Date Prepared:** 09/13/2008 **Analyst:** NTR

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<1.0	50	44	88	50	42	84	5	70-130	20	
Benzene	<1.0	50	44	88	50	43	86	2	80-120	20	
Chlorobenzene	<1.0	50	42	84	50	41	82	2	80-120	20	
Toluene	<1.0	50	43	86	50	41	82	5	75-120	20	
Trichloroethene	<1.0	50	46	92	50	44	88	4	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 312101 **Project ID:** 08096

Lab Batch ID: 734291 **QC- Sample ID:** 312476-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/16/2008 **Date Prepared:** 09/16/2008 **Analyst:** NTR

Reporting Units: ug/L

VOCs by SW-846 8260B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<1.0	50	51	102	50	51	102	0	70-130	20	
Benzene	<1.0	50	48	96	50	47	94	2	80-120	20	
Chlorobenzene	<1.0	50	47	94	50	47	94	0	80-120	20	
Toluene	<1.0	50	48	96	50	47	94	2	75-120	20	
Trichloroethene	<1.0	50	55	110	50	44	88	22	70-125	20	F

Lab Batch ID: 734293 **QC- Sample ID:** 311875-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/17/2008 **Date Prepared:** 09/16/2008 **Analyst:** 4124

Reporting Units: ug/L

VOCs by SW-846 8260B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<5.0	50	45	90	50	47	94	4	70-130	20	
Benzene	<5.0	50	47	94	50	46	92	2	80-120	20	
Chlorobenzene	7.3	50	47	79	50	47	79	0	80-120	20	X
Toluene	<5.0	50	56	112	50	48	96	15	75-120	20	
Trichloroethene	<5.0	50	44	88	50	44	88	0	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 312101 **Project ID:** 08096

Lab Batch ID: 734106 **QC- Sample ID:** 312101-006 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/12/2008 **Date Prepared:** 09/11/2008 **Analyst:** 4150

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCLP Metals by SW-846 1311/6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.015	4.00	4.03	100	4.00	4.05	101	1	75-125	20	
Barium	0.925	4.00	4.52	90	4.00	4.52	90	0	75-125	20	
Cadmium	<0.500	4.00	3.79	95	4.00	3.81	95	0	75-125	20	
Chromium	<0.500	4.00	3.81	95	4.00	3.85	96	1	75-125	20	
Lead	<0.500	4.00	3.68	92	4.00	3.72	93	1	75-125	20	
Selenium	0.017	4.00	4.16	104	4.00	4.18	104	0	75-125	20	
Silver	<0.500	4.00	3.91	98	4.00	3.95	99	1	75-125	20	

Lab Batch ID: 734102 **QC- Sample ID:** 312101-006 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/12/2008 **Date Prepared:** 09/11/2008 **Analyst:** 4150

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCLP Mercury by SW1311/7470A Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	<0.0100	0.0250	0.0244	98	0.0250	0.0243	97	1	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 312101 **Project ID:** 08096

Lab Batch ID: 734357 **QC- Sample ID:** 312101-006 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/15/2008 **Date Prepared:** 09/15/2008 **Analyst:** 4147

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCLP SVOCs by SW-846 1311/8270C Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,4-Dichlorobenzene	<100	500	287	57	500	154	31	59	10-87	30	F
2,4-Dinitrotoluene	<100	500	319	64	500	199	40	46	23-124	30	F
Pentachlorophenol	<200	1000	399	40	1000	217	22	58	22-120	30	F

Lab Batch ID: 734474 **QC- Sample ID:** 312228-008 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/17/2008 **Date Prepared:** 09/17/2008 **Analyst:** 4124

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCLP VOCs by SW1311/8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<0.050	0.50	0.51	102	0.50	0.50	100	2	70-130	20	
1,2-Dichloroethane	<0.050	0.50	0.48	96	0.50	0.49	98	2	70-130	20	
2-Butanone (MEK)	<0.50	1.0	1.0	100	1.0	1.0	100	0	30-150	20	
Benzene	<0.050	0.50	0.46	92	0.50	0.46	92	0	80-120	20	
Carbon tetrachloride	<0.050	0.50	0.43	86	0.50	0.46	92	7	65-140	20	
Chlorobenzene	<0.050	0.50	0.46	92	0.50	0.46	92	0	80-120	20	
Chloroform	<0.050	0.50	0.46	92	0.50	0.46	92	0	65-135	20	
Tetrachloroethene	<0.050	0.50	0.44	88	0.50	0.43	86	2	45-150	20	
Trichloroethene	<0.050	0.50	0.43	86	0.50	0.43	86	0	70-125	20	
Vinyl chloride	<0.020	0.50	0.51	102	0.50	0.50	100	2	50-145	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 312101

Lab Batch #: 734170 **Project ID:** 08096
Date Analyzed: 09/15/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4154
QC- Sample ID: 312032-006 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

BOD by SM5210B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	107	109	2	20	

Lab Batch #: 733955
Date Analyzed: 09/10/2008 **Date Prepared:** 09/10/2008 **Analyst:** SBA
QC- Sample ID: 312101-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Chemical Oxygen Demand by SM 5220D Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	16	21	27	20	F

Lab Batch #: 733922
Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150
QC- Sample ID: 311894-005 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Dissolved Metals by SW-846 6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	<0.100	NC	20	

Lab Batch #: 734167
Date Analyzed: 09/12/2008 **Date Prepared:** 09/12/2008 **Analyst:** SNL
QC- Sample ID: 312032-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Inorganic Anions by SW-846 9056 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	5.4	5.4	0	20	
Sulfate	0.092	6.3	194	20	F

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 312101

Lab Batch #: 733894 **Project ID:** 08096
Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150
QC- Sample ID: 312032-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Metals, Total by SW846 6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Arsenic	<0.010	<0.010	NC	20	
Barium	0.017	0.017	0	20	
Cadmium	<0.005	<0.005	NC	20	
Chromium	<0.050	<0.050	NC	20	
Copper	0.003	0.003	0	20	
Lead	<0.010	<0.010	NC	20	
Selenium	0.003	<0.010	NC	20	
Sodium	9.02	9.64	7	20	

Lab Batch #: 734106
Date Analyzed: 09/12/2008 **Date Prepared:** 09/11/2008 **Analyst:** 4150
QC- Sample ID: 312101-006 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TCLP Metals by SW-846 1311/6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Arsenic	0.015	0.027	57	20	F
Barium	0.925	1.06	14	20	
Cadmium	<0.500	<0.500	NC	20	
Chromium	<0.500	0.003	NC	20	
Lead	<0.500	0.020	NC	20	
Selenium	0.017	0.024	34	20	F
Silver	<0.500	0.001	NC	20	

Lab Batch #: 734102
Date Analyzed: 09/12/2008 **Date Prepared:** 09/11/2008 **Analyst:** 4150
QC- Sample ID: 312101-006 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TCLP Mercury by SW1311/7470A Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Mercury	<0.0100	<0.0100	NC	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

XENCO Laboratories

☐ 5757 N.W. 158th Street, Miami Lakes, Fl 33014 305-823-8500
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☒ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

☐ Philadephia/New Jersey 610-955-5649

Serial #: 218226 Page 1 of 1

Company-City: Winter - Environmental **Phone:** 404-588-3300

Lab Only: WO# 312101

Proj Name-Location ☐ Previously done at XENCO: Fashion Care **Project ID:** 8096

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Proj State: AL, FL, (GA) LA, MS, NC, NJ, PA, SC, TN, TX, UT Other **Proj. Manager (PM):** Len Dipirma

Fax Results to ☐ PM or **e-mail to:** LDipirma@Winter-Environmental.com **Fax No:** 404-223-6251

Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O Bill to:

Quote/Pricing: **P.O No:** ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA

QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

LPST No.:

Sampler Name Joe King Signature Joe King

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs BTEX-MTBE VOHs VOAs PP TCL Appdx 1 Appdx 2	Method: 8260 8021 624 524	PAHs: 8270 8100 8310 8270_SIM	TRPH by FL PRO DRO GRO MA EPH MA VPH	SVOCs: 8270 625 - (BN&AE) (TCL) (PP) (Appdx 2)	Pest. (8081 / 608) PCBs (8082 / 608) Herb. (8151 / 615)	EDB / DBCP (8011 / 504)	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	Metals Methods: 6020 / 6010 / 200.8 / 7470 / 7471	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	FL Preburn: Virgin Non-Virgin	Anions	BOD	Diss Iron	COD				TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Remarks: Sample Clean-ups are pre-approved as needed			Addn: Date Rcv by: From:	
1	MW-23D	9-9-08	1020	—	W		X	6			L	X							X				X		X	X											1
2	MW-9R	9-9-08	1055	—	W		X	6			L	X							X				X		X	X											2
3	MW-2R	9-9-08	1225	—	W		X	6			L	X							X				X		X	X											3
4	MW-11	9-9-08	1420	—	W		X	6			L	X							X				X		X	X											4
5	~~SW-3~~	~~9-8-08~~	~~1630~~	~~—~~	~~W~~		~~X~~	~~1~~			~~L~~								~~X~~																		5
6	IDW water	9-9-08	1450	—	W		X	2	V	C	L	X																									6
7	IDW Soil	9-9-08	1505	—	S	X		4			L	X				X			X																		7
8	TBLK03308	9-9-08	0900	—	W		X	2	V	C	L	X																									8
9																																					9
10																																					10

	Relinquished by (Initials and Sign)	Date & Time			Relinquished to (Initials and Sign)	Date & Time
1	1) Joe King	9-9-08	1557		2) [signature]	9/9/08 1557
2	3)				4)	
3	5)				6)	

Total Containers per COC: Cooler Temp: 5°C

All XENCO Standard Terms and Conditions Apply.

Rush Charges are Pre-Approved upon Requesting them.

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O) _____

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tedlar Bag (B), Wipe (W), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Other (O) _____

Matrix: Air (A), Product (P), Solid(S), Water (W)

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Laboratory Analysis List
Fashion Care/Executive Care Site
Winter Environmental Project No. 08096

- VOCs (soil):
  - Tetrachloroethene (PCE)
  - cis-1, 2-Dichloroethene
  - trans-1, 2-Dichloroethene
  - 1, 1-Dichloroethene (1,1-DCE)
  - Trichloroethene (TCE)
  - Vinyl Chloride (VC)
  - Benzene
  - Toluene
  - Ethylbenzene
  - Total Xylenes
  - Cyclohexane
  - Isopropylbenzene
  - 1, 1-Dichloroethane
  - Acetone
- VOCs (groundwater/surface water): TCL List plus 1,4-dioxane
- Metals (groundwater/surface water):
  - arsenic
  - barium
  - lead
  - selenium
  - cadmium
  - chromium
  - copper
- BOD & COD (groundwater/surface water)
- Anions (groundwater/surface water): sodium, chlorides, SO4

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Winter Env.

Date/ Time: 9/9/08 1557

Lab ID # : 312101

Initials: MH

Sample Receipt Checklist

#1	Temperature of cooler?				5 °C
#2	Shipping container in good condition?	YES	No	None	
#3	Samples received on ice?	YES	No	N/A	Blue/Water
#4	Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	N/A	
#6	Chain of Custody present?	YES	No		
#7	Sample instructions complete of Chain of Custody?	YES	No		
#8	Any missing/extra samples?	Yes	NO		
#9	Chain of Custody signed when relinquished/ received?	YES	No		
#10	Chain of Custody agrees with sample label(s)?	YES	No		
#11	Container label(s) legible and intact?	YES	No		
#12	Sample matrix/ properties agree with Chain of Custody?	YES	No		
#13	Samples in proper container/ bottle?	YES	No		
#14	Samples properly preserved?	YES	No	N/A	
#15	Sample container(s) intact?	YES	No		
#16	Sufficient sample amount for indicated test(s)?	YES	No		
#17	All samples received within sufficient hold time?	YES	No		
#18	Subcontract of sample(s)?	Yes	NO		
#19	VOC samples have zero headspace?	YES	No	N/A	

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 312032

for

Winter Environmental

Project Manager: Len Diprima

Fashion Care

08096

17-SEP-08

E84880

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Texas certification numbers:
Houston, TX T104704215 - Odessa/Midland, TX T104704215-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

17-SEP-08

Project Manager: **Len Diprima**
Winter Environmental
3350 Green Pointe Parkway
Norcross, GA 30092

Reference: XENCO Report No: **312032**
Fashion Care
Project Address: GA

Len Diprima:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 312032. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 312032 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

David C. Fuller
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW-1	W	Sep-08-08 07:25		312032-001
MW-14	W	Sep-08-08 08:05		312032-002
SW-2	W	Sep-08-08 09:00		312032-003
MW-13	W	Sep-08-08 09:05		312032-004
FMW-4	W	Sep-08-08 10:20		312032-005
FMW-2	W	Sep-08-08 12:25		312032-006
FMW-3	W	Sep-08-08 13:45		312032-007
FMW-1	W	Sep-08-08 15:40		312032-008
SW-3	W	Sep-08-08 16:30		312032-009
TBLK30208	W	Sep-08-08 07:45		312032-010

Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SW-1**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312032-001**	Date Collected: **Sep-08-08 07:25**	Date Received: **Sep-08-08 17:50**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 09:00 Analyst: 4154 Date Prep: Sep-10-08 07:30 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		6.19	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		16	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 14:51 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	U	0.100	0.017	mg/L	U	1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	5.4	1.0	0.062	mg/L		1
Sulfate	14808-79-8	6.1	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 13:47 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.004	mg/L	U	1
Barium	7440-39-3	0.017	0.050	0.001	mg/L	J	1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	0.003	0.050	0.002	mg/L	J	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	9.02	5.00	0.702	mg/L		1

Project: Xenco-Atlanta Master Project

Version: 1.014

Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SW-1** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-001** Date Collected: **Sep-08-08 07:25** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 14:35 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	U	1.0	0.16	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.0	0.21	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.0	0.18	ug/L	U	1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.014

Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SW-1**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312032-001**	Date Collected: **Sep-08-08 07:25**	Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 14:35 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.0	0.16	ug/L	U	1
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	U	1.0	0.19	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.014

Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-14** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-002** Date Collected: **Sep-08-08 08:05** Date Received: **Sep-08-08 17:50**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 09:00 Analyst: 4154 Date Prep: Sep-10-08 07:30 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		7.52	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		28	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 14:53 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	24.5	0.100	0.017	mg/L		1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	12	1.0	0.062	mg/L		1
Sulfate	14808-79-8	1.4	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 13:58 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.029	0.010	0.004	mg/L		1
Barium	7440-39-3	0.075	0.050	0.001	mg/L		1
Cadmium	7440-43-9	0.002	0.005	0.001	mg/L	J	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	U	0.050	0.002	mg/L	U	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	11.2	5.00	0.702	mg/L		1

Project: Xenco-Atlanta Master Project

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Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-14** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-002** Date Collected: **Sep-08-08 08:05** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 15:03 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	2.7	1.0	0.20	ug/L		1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	2.6	1.0	0.14	ug/L		1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	130	1.0	0.16	ug/L		1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	2600	20	4.2	ug/L	D	20
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	26	1.0	0.15	ug/L		1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	1.4	1.0	0.19	ug/L		1
Isopropylbenzene	98-82-8	10	1.0	0.15	ug/L		1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	130	2.0	0.18	ug/L		1
Methylcyclohexane	108-87-2	19	1.0	0.11	ug/L		1

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Version: 1.014

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-14**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312032-002**	Date Collected: **Sep-08-08 08:05**	Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 15:03 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	260	20	3.2	ug/L	D	20
Toluene	108-88-3	15	1.0	0.14	ug/L		1
trans-1,2-Dichloroethene	156-60-5	18	1.0	0.21	ug/L		1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	260	20	3.8	ug/L	D	20
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	830	20	3.8	ug/L	D	20
m,p-Xylenes	179601-23-1	2.2	2.0	0.51	ug/L		1
o-Xylene	95-47-6	3.7	1.0	0.20	ug/L		1
Xylenes, Total	1330-20-7	5.9			ug/L		1

Project: Xenco-Atlanta Master Project

Version: 1.014

Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SW-2** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-003** Date Collected: **Sep-08-08 09:00** Date Received: **Sep-08-08 17:50**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 09:00 Analyst: 4154 Date Prep: Sep-10-08 07:30 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		7.55	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		28	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 14:55 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	0.018	0.100	0.017	mg/L	JB	1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	6.6	1.0	0.062	mg/L		1
Sulfate	14808-79-8	6.4	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 14:04 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.004	mg/L	U	1
Barium	7440-39-3	0.020	0.050	0.001	mg/L	J	1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	0.004	0.050	0.002	mg/L	J	1
Lead	7439-92-1	0.004	0.010	0.004	mg/L	J	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	9.21	5.00	0.702	mg/L		1

Project: Xenco-Atlanta Master Project

Version: 1.014

Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SW-2** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-003** Date Collected: **Sep-08-08 09:00** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 15:31 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	U	1.0	0.16	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.0	0.21	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.0	0.18	ug/L	U	1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SW-2**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312032-003**	Date Collected: **Sep-08-08 09:00**	Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 15:31 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.0	0.16	ug/L	U	1
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	U	1.0	0.19	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-13** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-004** Date Collected: **Sep-08-08 09:05** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 15:59 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	12	1.0	0.18	ug/L		1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	U	1.0	0.16	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.0	0.21	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	190	2.0	0.18	ug/L		1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **MW-13**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312032-004**	Date Collected: **Sep-08-08 09:05**	Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 15:59 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.0	0.16	ug/L	U	1
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	U	1.0	0.19	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.014

Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-4** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-005** Date Collected: **Sep-08-08 10:20** Date Received: **Sep-08-08 17:50**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 09:00 Analyst: 4154 Date Prep: Sep-10-08 09:30 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		28.2	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		100	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 14:57 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	0.171	0.100	0.017	mg/L		1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	69	5.0	0.31	mg/L	D	5
Sulfate	14808-79-8	5.3	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 14:05 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.005	0.010	0.004	mg/L	JB	1
Barium	7440-39-3	0.394	0.050	0.001	mg/L		1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	0.003	0.050	0.002	mg/L	J	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	0.006	0.010	0.003	mg/L	J	1
Sodium	7440-23-5	18.7	5.00	0.702	mg/L		1

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Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-4** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-005** Date Collected: **Sep-08-08 10:20** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 16:27 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	61	1.0	0.20	ug/L		1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	19	1.0	0.14	ug/L		1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	31	2.0	0.32	ug/L		1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	2000	500	80	ug/L	D	500
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	3.6	1.0	0.15	ug/L		1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	52000	500	110	ug/L	D	500
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	465	500	95	ug/L	J	500
Isopropylbenzene	98-82-8	19	1.0	0.15	ug/L		1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	945	1000	90	ug/L	J	500
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-4**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312032-005**	Date Collected: **Sep-08-08 10:20**	Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 16:27 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	42000	500	80	ug/L	D	500
Toluene	108-88-3	4100	500	70	ug/L	D	500
trans-1,2-Dichloroethene	156-60-5	900	500	110	ug/L	D	500
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	30000	500	95	ug/L	D	500
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	3700	500	95	ug/L	D	500
m,p-Xylenes	179601-23-1	940	1000	260	ug/L	J	500
o-Xylene	95-47-6	660	500	100	ug/L	D	500
Xylenes, Total	1330-20-7	1600			ug/L	D	500

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-2** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-006** Date Collected: **Sep-08-08 12:25** Date Received: **Sep-08-08 17:50**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 09:00 Analyst: 4154 Date Prep: Sep-10-08 09:30 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		107	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		510	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 14:59 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	0.240	0.100	0.017	mg/L		1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	4.0	1.0	0.062	mg/L		1
Sulfate	14808-79-8	6.2	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 14:07 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.004	mg/L	U	1
Barium	7440-39-3	0.138	0.050	0.001	mg/L		1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	0.001	0.050	0.001	mg/L	J	1
Copper	7440-50-8	0.004	0.050	0.002	mg/L	J	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	0.014	0.010	0.003	mg/L		1
Sodium	7440-23-5	16.6	5.00	0.702	mg/L		1

Project: Xenco-Atlanta Master Project

Version: 1.014

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-2** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-006** Date Collected: **Sep-08-08 12:25** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 16:55 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	13	1.0	0.18	ug/L		1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	400	50	9.0	ug/L	D	50
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	190	2.0	0.28	ug/L		1
2-Hexanone	591-78-6	65	2.0	0.32	ug/L		1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	13000	500	80	ug/L	D	500
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	110	1.0	0.21	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	140	1.0	0.15	ug/L		1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	2600	50	9.5	ug/L	D	50
Isopropylbenzene	98-82-8	82	1.0	0.15	ug/L		1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	930	100	9.0	ug/L	D	50
Methylcyclohexane	108-87-2	43	1.0	0.11	ug/L		1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-2** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-006** Date Collected: **Sep-08-08 12:25** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 16:55 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	60	1.0	0.16	ug/L		1
Toluene	108-88-3	6000	50	7.0	ug/L	D	50
trans-1,2-Dichloroethene	156-60-5	5.7	1.0	0.21	ug/L		1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	27	1.0	0.19	ug/L		1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	9800	100	26	ug/L	D	50
o-Xylene	95-47-6	4900	50	10	ug/L	D	50
Xylenes, Total	1330-20-7	14700			ug/L	D	50

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-3**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312032-007**	Date Collected: **Sep-08-08 13:45**	Date Received: **Sep-08-08 17:50**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 12:45 Analyst: 4154 Date Prep: Sep-10-08 12:00 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		8.82	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		40	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 15:01 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	8.15	0.100	0.017	mg/L		1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	20	1.0	0.062	mg/L		1
Sulfate	14808-79-8	4.0	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 14:09 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.013	0.010	0.004	mg/L	B	1
Barium	7440-39-3	0.046	0.050	0.001	mg/L	J	1
Cadmium	7440-43-9	0.001	0.005	0.001	mg/L	J	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	U	0.050	0.002	mg/L	U	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	0.004	0.010	0.003	mg/L	J	1
Sodium	7440-23-5	21.3	5.00	0.702	mg/L		1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-3** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-007** Date Collected: **Sep-08-08 13:45** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 17:23 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	160	1.0	0.16	ug/L		1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	4.8	1.0	0.21	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	35	1.0	0.15	ug/L		1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	190	1.0	0.19	ug/L		1
Isopropylbenzene	98-82-8	17	1.0	0.15	ug/L		1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.0	0.18	ug/L	U	1
Methylcyclohexane	108-87-2	18	1.0	0.11	ug/L		1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-3**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312032-007**	Date Collected: **Sep-08-08 13:45**	Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 17:23 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	16	1.0	0.16	ug/L		1
Toluene	108-88-3	7.5	1.0	0.14	ug/L		1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	5.7	1.0	0.19	ug/L		1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	880	20	5.1	ug/L	D	10
o-Xylene	95-47-6	8.4	1.0	0.20	ug/L		1
Xylenes, Total	1330-20-7	888.4			ug/L	D	10

Project: Xenco-Atlanta Master Project

Version: 1.014

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-1** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-008** Date Collected: **Sep-08-08 15:40** Date Received: **Sep-08-08 17:50**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 12:45 Analyst: 4154 Date Prep: Sep-10-08 12:00 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		14.6	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		81	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 15:02 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	0.459	0.100	0.017	mg/L		1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	9.7	1.0	0.062	mg/L		1
Sulfate	14808-79-8	5.2	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 14:11 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.005	0.010	0.004	mg/L	JB	1
Barium	7440-39-3	0.117	0.050	0.001	mg/L		1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	0.002	0.050	0.001	mg/L	J	1
Copper	7440-50-8	0.004	0.050	0.002	mg/L	J	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	0.010	0.010	0.003	mg/L	J	1
Sodium	7440-23-5	12.6	5.00	0.702	mg/L		1

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Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-1** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-008** Date Collected: **Sep-08-08 15:40** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 17:51 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	830	20	3.2	ug/L	D	20
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	2.7	1.0	0.21	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	45	1.0	0.15	ug/L		1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	330	20	3.8	ug/L	D	20
Isopropylbenzene	98-82-8	13	1.0	0.15	ug/L		1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	2400	40	3.6	ug/L	D	20
Methylcyclohexane	108-87-2	18	1.0	0.11	ug/L		1

Project: Xenco-Atlanta Master Project

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Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-1**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312032-008**	Date Collected: **Sep-08-08 15:40**	Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 17:51 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR

Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	8.6	1.0	0.16	ug/L		1
Toluene	108-88-3	54	1.0	0.14	ug/L		1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	2.8	1.0	0.19	ug/L		1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	400	2.0	0.51	ug/L		1
o-Xylene	95-47-6	45	1.0	0.20	ug/L		1
Xylenes, Total	1330-20-7	445			ug/L		1

Project: Xenco-Atlanta Master Project

Version: 1.014

Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SW-3**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312032-009**	Date Collected: **Sep-08-08 16:30**	Date Received: **Sep-08-08 17:50**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-15-08 12:45 Analyst: 4154 Date Prep: Sep-10-08 12:00 Tech: 4154
Seq Number: 734170

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		11.4	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-10-08 07:20 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 733955

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		47	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 15:04 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	U	0.100	0.017	mg/L	U	1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-12-08 18:10 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 734167

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	6.1	1.0	0.062	mg/L		1
Sulfate	14808-79-8	6.4	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-11-08 14:13 Analyst: 4150 Date Prep: Sep-10-08 15:12 Tech: ABA
Seq Number: 733894

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.004	mg/L	U	1
Barium	7440-39-3	0.026	0.050	0.001	mg/L	J	1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	0.006	0.050	0.002	mg/L	J	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	10.2	5.00	0.702	mg/L		1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SW-3** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-009** Date Collected: **Sep-08-08 16:30** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-16-08 17:58 Analyst: NTR Date Prep: Sep-16-08 07:53 Tech: NTR
Seq Number: 734291

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	U	1.0	0.16	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.0	0.21	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.0	0.18	ug/L	U	1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SW-3**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312032-009**	Date Collected: **Sep-08-08 16:30**	Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-16-08 17:58 Analyst: NTR Date Prep: Sep-16-08 07:53 Tech: NTR

Seq Number: 734291

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.0	0.16	ug/L	U	1
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	U	1.0	0.19	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **TBLK30208** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-010** Date Collected: **Sep-08-08 07:45** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 14:07 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	U	1.0	0.16	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.0	0.21	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.0	0.18	ug/L	U	1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

Project: Xenco-Atlanta Master Project

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Certificate of Analytical Results 312032

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **TBLK30208** Matrix: **WATER** % Moisture:
Lab Sample Id: **312032-010** Date Collected: **Sep-08-08 07:45** Date Received: **Sep-08-08 17:50**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 14:07 Analyst: NTR Date Prep: Sep-13-08 11:01 Tech: NTR
Seq Number: 734130

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.0	0.16	ug/L	U	1
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	U	1.0	0.19	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.014

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

* Outside XENCO'S scope of NELAC Accreditation

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312032, **Project ID:** 08096

Lab Batch #: 734130 **Sample:** 312032-001 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52.86	50.00	106	53-159	
4-Bromofluorobenzene	50.92	50.00	102	30-186	
Toluene-D8	48.73	50.00	97	70-130	

Lab Batch #: 734130 **Sample:** 312032-001 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	44.02	50.00	88	53-159	
4-Bromofluorobenzene	50.39	50.00	101	30-186	
Toluene-D8	49.85	50.00	100	70-130	

Lab Batch #: 734130 **Sample:** 312032-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	44.34	50.00	89	53-159	
4-Bromofluorobenzene	50.94	50.00	102	30-186	
Toluene-D8	49.95	50.00	100	70-130	

Lab Batch #: 734130 **Sample:** 312032-002 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53.61	50.00	107	53-159	
4-Bromofluorobenzene	50.72	50.00	101	30-186	
Toluene-D8	49.56	50.00	99	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312032, **Project ID:** 08096

Lab Batch #: 734130 **Sample:** 312032-003 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52.58	50.00	105	53-159	
4-Bromofluorobenzene	50.81	50.00	102	30-186	
Toluene-D8	49.70	50.00	99	70-130	

Lab Batch #: 734130 **Sample:** 312032-004 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54.12	50.00	108	53-159	
4-Bromofluorobenzene	50.14	50.00	100	30-186	
Toluene-D8	49.13	50.00	98	70-130	

Lab Batch #: 734130 **Sample:** 312032-005 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	78.22	50.00	156	53-159	
4-Bromofluorobenzene	49.68	50.00	99	30-186	
Toluene-D8	57.98	50.00	116	70-130	

Lab Batch #: 734130 **Sample:** 312032-006 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53.81	50.00	108	53-159	
4-Bromofluorobenzene	50.69	50.00	101	30-186	
Toluene-D8	48.64	50.00	97	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312032, **Project ID:** 08096

Lab Batch #: 734130 **Sample:** 312032-007 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51.64	50.00	103	53-159	
4-Bromofluorobenzene	51.03	50.00	102	30-186	
Toluene-D8	49.28	50.00	99	70-130	

Lab Batch #: 734130 **Sample:** 312032-008 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51.98	50.00	104	53-159	
4-Bromofluorobenzene	50.01	50.00	100	30-186	
Toluene-D8	49.51	50.00	99	70-130	

Lab Batch #: 734130 **Sample:** 312032-010 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52.83	50.00	106	53-159	
4-Bromofluorobenzene	49.84	50.00	100	30-186	
Toluene-D8	48.67	50.00	97	70-130	

Lab Batch #: 734130 **Sample:** 515635-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	45.14	50.00	90	53-159	
4-Bromofluorobenzene	50.70	50.00	101	30-186	
Toluene-D8	49.32	50.00	99	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312032, **Project ID:** 08096

Lab Batch #: 734130 **Sample:** 515635-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52.73	50.00	105	53-159	
4-Bromofluorobenzene	50.78	50.00	102	30-186	
Toluene-D8	49.66	50.00	99	77-124	

Lab Batch #: 734291 **Sample:** 312032-002 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47.37	50.00	95	53-159	
4-Bromofluorobenzene	52.12	50.00	104	30-186	
Toluene-D8	44.33	50.00	89	70-130	

Lab Batch #: 734291 **Sample:** 312032-005 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48.00	50.00	96	53-159	
4-Bromofluorobenzene	51.31	50.00	103	30-186	
Toluene-D8	44.17	50.00	88	70-130	

Lab Batch #: 734291 **Sample:** 312032-006 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48.59	50.00	97	53-159	
4-Bromofluorobenzene	51.86	50.00	104	30-186	
Toluene-D8	44.40	50.00	89	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312032, **Project ID:** 08096

Lab Batch #: 734291 **Sample:** 312032-006 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47.40	50.00	95	53-159	
4-Bromofluorobenzene	51.27	50.00	103	30-186	
Toluene-D8	44.46	50.00	89	70-130	

Lab Batch #: 734291 **Sample:** 312032-007 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48.83	50.00	98	53-159	
4-Bromofluorobenzene	50.97	50.00	102	30-186	
Toluene-D8	44.06	50.00	88	70-130	

Lab Batch #: 734291 **Sample:** 312032-008 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	46.97	50.00	94	53-159	
4-Bromofluorobenzene	51.08	50.00	102	30-186	
Toluene-D8	44.19	50.00	88	70-130	

Lab Batch #: 734291 **Sample:** 312032-009 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	46.82	50.00	94	53-159	
4-Bromofluorobenzene	51.35	50.00	103	30-186	
Toluene-D8	44.25	50.00	89	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312032, **Project ID:** 08096

Lab Batch #: 734291 **Sample:** 312476-001 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	41.37	50.00	83	53-159	
4-Bromofluorobenzene	51.28	50.00	103	30-186	
Toluene-D8	44.62	50.00	89	70-130	

Lab Batch #: 734291 **Sample:** 312476-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	40.96	50.00	82	53-159	
4-Bromofluorobenzene	51.39	50.00	103	30-186	
Toluene-D8	44.66	50.00	89	70-130	

Lab Batch #: 734291 **Sample:** 515718-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	41.59	50.00	83	53-159	
4-Bromofluorobenzene	51.03	50.00	102	30-186	
Toluene-D8	44.52	50.00	89	70-130	

Lab Batch #: 734291 **Sample:** 515718-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48.19	50.00	96	53-159	
4-Bromofluorobenzene	51.39	50.00	103	30-186	
Toluene-D8	44.42	50.00	89	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 312032 **Project ID:** 08096

Lab Batch #: 734130 **Sample:** 515635-1-BKS **Matrix:** Water
Date Analyzed: 09/13/2008 **Date Prepared:** 09/13/2008 **Analyst:** NTR
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.0	50	42	84	70-130	
Benzene	<1.0	50	43	86	80-120	
Chlorobenzene	<1.0	50	43	86	80-120	
Toluene	<1.0	50	42	84	75-120	
Trichloroethene	<1.0	50	44	88	70-125	

Lab Batch #: 734291 **Sample:** 515718-1-BKS **Matrix:** Water
Date Analyzed: 09/16/2008 **Date Prepared:** 09/16/2008 **Analyst:** NTR
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.0	50	52	104	70-130	
Benzene	<1.0	50	48	96	80-120	
Chlorobenzene	<1.0	50	48	96	80-120	
Toluene	<1.0	50	48	96	75-120	
Trichloroethene	<1.0	50	46	92	70-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 312032 **Project ID:** 08096

Analyst: 4154 **Date Prepared:** 09/10/2008 **Date Analyzed:** 09/15/2008

Lab Batch ID: 734170 **Sample:** 515657-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BOD by SM5210B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	<2.00	200	187	94	200	191	96	2	70-120	20	

Analyst: SBA **Date Prepared:** 09/10/2008 **Date Analyzed:** 09/10/2008

Lab Batch ID: 733955 **Sample:** 733955-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chemical Oxygen Demand by SM 5220D Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	<10	200	210	105	200	220	110	5	71-128	20	

Analyst: 4150 **Date Prepared:** 09/10/2008 **Date Analyzed:** 09/11/2008

Lab Batch ID: 733922 **Sample:** 515438-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	0.023	11.0	9.70	88	11	9.73	88	0	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 312032 **Project ID:** 08096

Analyst: SNL **Date Prepared:** 09/12/2008 **Date Analyzed:** 09/12/2008

Lab Batch ID: 734167 **Sample:** 734167-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by SW-846 9056 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<1.0	10	9.1	91	10	9.2	92	1	70-125	20	
Sulfate	<1.0	10	9.0	90	10	9.1	91	1	70-125	20	

Analyst: SNL **Date Prepared:** 09/15/2008 **Date Analyzed:** 09/15/2008

Lab Batch ID: 734169 **Sample:** 734169-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by SW-846 9056 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<1.0	10	9.3	93	10	9.2	92	1	70-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 312032
Project ID: 08096
Analyst: 4150
Date Prepared: 09/10/2008
Date Analyzed: 09/11/2008
Lab Batch ID: 733894
Sample: 515442-1-BKS
Batch #: 1
Matrix: Water
Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Metals, Total by SW846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.005	1.00	0.959	96	1	0.956	96	0	75-125	20	
Barium	<0.050	1.00	0.973	97	1	0.973	97	0	75-125	20	
Cadmium	<0.005	1.00	0.996	100	1	0.995	100	0	75-125	20	
Chromium	<0.050	1.00	0.995	100	1	0.998	100	0	75-125	20	
Copper	0.002	1.00	0.989	99	1	0.989	99	0	75-125	20	
Lead	<0.010	1.00	0.983	98	1	0.985	99	0	75-125	20	
Selenium	<0.010	1.00	0.979	98	1	0.979	98	0	75-125	20	
Sodium	<5.00	9.00	10.2	113	9	10.2	113	0	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 312032 **Project ID:** 08096

Lab Batch ID: 733955 **QC- Sample ID:** 312101-001 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 09/10/2008 **Date Prepared:** 09/10/2008 **Analyst:** SBA
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chemical Oxygen Demand by SM 5220D Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	16	200	240	112	200	230	107	5	71-128	20	

Lab Batch ID: 733922 **QC- Sample ID:** 311894-005 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	11.0	9.93	90	11.0	10.6	96	6	75-125	20	

Lab Batch ID: 734167 **QC- Sample ID:** 312032-001 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 09/12/2008 **Date Prepared:** 09/12/2008 **Analyst:** SNL
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by SW-846 9056 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	5.4	10	14	86	10	14	86	0	70-125	20	
Sulfate	6.1	10	15	89	10	15	89	0	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 312032 **Project ID:** 08096

Lab Batch ID: 734169 **QC- Sample ID:** 312351-020 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/15/2008 **Date Prepared:** 09/15/2008 **Analyst:** SNL

Reporting Units: mg/L

Inorganic Anions by SW-846 9056 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	12	10	21	90	10	21	90	0	70-125	20	

Lab Batch ID: 733894 **QC- Sample ID:** 312032-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150

Reporting Units: mg/L

Metals, Total by SW846 6010B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.010	1.00	0.976	98	1.00	1.01	101	3	75-125	20	
Barium	0.017	1.00	0.996	98	1.00	1.02	100	2	75-125	20	
Cadmium	<0.005	1.00	1.00	100	1.00	1.03	103	3	75-125	20	
Chromium	<0.050	1.00	1.01	101	1.00	1.03	103	2	75-125	20	
Copper	0.003	1.00	1.00	100	1.00	1.02	102	2	75-125	20	
Lead	<0.010	1.00	0.989	99	1.00	1.01	101	2	75-125	20	
Selenium	0.003	1.00	0.995	99	1.00	1.02	102	3	75-125	20	
Sodium	9.02	9.00	18.3	103	9.00	18.8	109	6	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 312032 **Project ID:** 08096

Lab Batch ID: 734130 **QC- Sample ID:** 312032-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/13/2008 **Date Prepared:** 09/13/2008 **Analyst:** NTR

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<1.0	50	44	88	50	42	84	5	70-130	20	
Benzene	<1.0	50	44	88	50	43	86	2	80-120	20	
Chlorobenzene	<1.0	50	42	84	50	41	82	2	80-120	20	
Toluene	<1.0	50	43	86	50	41	82	5	75-120	20	
Trichloroethene	<1.0	50	46	92	50	44	88	4	70-125	20	

Lab Batch ID: 734291 **QC- Sample ID:** 312476-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/16/2008 **Date Prepared:** 09/16/2008 **Analyst:** NTR

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<1.0	50	51	102	50	51	102	0	70-130	20	
Benzene	<1.0	50	48	96	50	47	94	2	80-120	20	
Chlorobenzene	<1.0	50	47	94	50	47	94	0	80-120	20	
Toluene	<1.0	50	48	96	50	47	94	2	75-120	20	
Trichloroethene	<1.0	50	55	110	50	44	88	22	70-125	20	F

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 312032

Lab Batch #: 734170 **Project ID:** 08096
Date Analyzed: 09/15/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4154
QC- Sample ID: 312032-006 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

BOD by SM5210B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	107	109	2	20	

Lab Batch #: 733955
Date Analyzed: 09/10/2008 **Date Prepared:** 09/10/2008 **Analyst:** SBA
QC- Sample ID: 312101-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Chemical Oxygen Demand by SM 5220D Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	16	21	27	20	F

Lab Batch #: 733922
Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150
QC- Sample ID: 311894-005 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Dissolved Metals by SW-846 6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	<0.100	NC	20	

Lab Batch #: 734169
Date Analyzed: 09/15/2008 **Date Prepared:** 09/15/2008 **Analyst:** SNL
QC- Sample ID: 312351-020 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Inorganic Anions by SW-846 9056 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	12	12	0	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 312032

Lab Batch #: 734167 **Project ID:** 08096
Date Analyzed: 09/12/2008 **Date Prepared:** 09/12/2008 **Analyst:** SNL
QC- Sample ID: 312032-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Inorganic Anions by SW-846 9056 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	5.4	5.4	0	20	
Sulfate	6.1	6.3	3	20	

Lab Batch #: 733894
Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150
QC- Sample ID: 312032-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Metals, Total by SW846 6010B Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Arsenic	<0.010	<0.010	NC	20	
Barium	0.017	0.017	0	20	
Cadmium	<0.005	<0.005	NC	20	
Chromium	<0.050	<0.050	NC	20	
Copper	0.003	0.003	0	20	
Lead	<0.010	<0.010	NC	20	
Selenium	0.003	<0.010	NC	20	
Sodium	9.02	9.64	7	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

XENCO Laboratories

☐ 5757 N.W. 158th Street, Miami Lakes, Fl 33014 305-823-8500
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☒ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

☐ Philadephia/New Jersey 610-955-5649

Serial #: 219059 Page 1 of 1

Company-City: Winter-Environmental
Phone: 404-588-3300
Lab Only: WO# 312032

Proj Name-Location: Fashion Care ☐ Previously done at XENCO
Project ID: 8096

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Proj State: AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, TX, UT Other
Proj. Manager (PM): Len Diprima

Fax Results to ☐ PM or e-mail to: LDiprima@winter-Environmental.com
Fax No: 404-223-6251

Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O Bill to:

Quote/Pricing: P.O No: ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA

QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

LPST No.:

Sampler Name Signature

From: Rcv by: Date Addn:

	Sample ID	Sampling Date	Time	Depth ft' in" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs BTEX-MTBE VOHs VOAs PP TCL Appdx 1 Appdx 2	Method: 8260 8021 624 524	PAHs: 8270 8100 8310 8270_SIM	TRPH by FL PRO DRO GRO MA EPH MA VPH	SVOCs: 8270 625 - (BN&AE) (TCL) (PP) (Appdx 2)	Pest. (8081 / 608) PCBs (8082 / 608) Herb. (8151 / 615)	EDB / DBCP (8011 / 504)	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	Metals Methods: 6020 / 6010 / 200.8 / 7470 / 7471	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	FL Preburn: Virgin Non-Virgin	Anions	BOD	Diss. Iron	COD					TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Remarks: Sample Clean-ups are pre-approved as needed			
1	SW-1	9-8-08	0725	—	W		X	6			L	X							X				X	X	X												1
2	MW-14	9-8-08	0805	—	W		X	6			L	X							X				X	X	X												2
3	SW-2	9-8-08	0900	—	W		X	6			L	X							X				X	X	X												3
4	MW-13	9-8-08	0905	—	W		X	2	V	C	L	X																									4
5	FMW-4	9-8-08	1020	—	W		X	6			L	X							X				X	X	X												5
6	FMW-2	9-8-08	1225	—	W		X	6			L	X							X				X	X	X												6
7	FMW-3	9-8-08	1345	—	W		X	6			L	X							X				X	X	X												7
8	FMW-1	9-8-08	1540	—	W		X	6			L	X							X				X	X	X												8
9	SW-3	9-8-08	1630	—	W		X	6			L	X							X				X	X	X												9
10	TBLK30908	9-8-08	0745	—	W			2	V	C	L	X																									10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time	Total Containers per COC:	Cooler Temp:
1) [signature]	9-8-08 5:50 pm	2) Mario Alvez	09/08/08	5:50.	5°C
2) 3)		4)		All XENCO Standard Terms and Conditions Apply.	
3) 5)		6)		Rush Charges are Pre-Approved upon Requesting them.	

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O) _____

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tedlar Bag (B), Wipe (W), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Other (O) _____

Matrix: Air (A), Product (P), Solid(S), Water (W)

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Laboratory Analysis List
Fashion Care/Executive Care Site
Winter Environmental Project No. 08096

- VOCs (soil):
  - Tetrachloroethene (PCE)
  - cis-1, 2-Dichloroethene
  - trans-1, 2-Dichloroethene
  - 1, 1-Dichloroethene (1,1-DCE)
  - Trichloroethene (TCE)
  - Vinyl Chloride (VC)
  - Benzene
  - Toluene
  - Ethylbenzene
  - Total Xylenes
  - Cyclohexane
  - Isopropylbenzene
  - 1, 1-Dichloroethane
  - Acetone
- VOCs (groundwater/surface water): TCL List plus 1,4-dioxane
- Metals (groundwater/surface water):
  - arsenic
  - barium
  - lead
  - selenium
  - cadmium
  - chromium
  - copper
- BOD & COD (groundwater/surface water)
- Anions (groundwater/surface water): sodium, chlorides, SO4

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Winter Envi

Date/ Time: 9/8/08 1750

Lab ID # : 312032

Initials: JM

Sample Receipt Checklist

#1	Temperature of cooler?				5° C
#2	Shipping container in good condition?	YES	No	None	
#3	Samples received on ice?	YES	No	N/A	Blue/Water
#4	Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	N/A	
#6	Chain of Custody present?	YES	No		
#7	Sample instructions complete of Chain of Custody?	YES	No		
#8	Any missing/extra samples?	Yes	NO		
#9	Chain of Custody signed when relinquished/ received?	YES	No		
#10	Chain of Custody agrees with sample label(s)?	YES	No		
#11	Container label(s) legible and intact?	YES	No		
#12	Sample matrix/ properties agree with Chain of Custody?	YES	No		
#13	Samples in proper container/ bottle?	YES	No		
#14	Samples properly preserved?	YES	No	N/A	
#15	Sample container(s) intact?	YES	No		
#16	Sufficient sample amount for indicated test(s)?	YES	No		
#17	All samples received within sufficient hold time?	YES	No		
#18	Subcontract of sample(s)?	Yes	NO		
#19	VOC samples have zero headspace?	YES	No	N/A	

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 311894

for

Winter Environmental

Project Manager: Len Diprima

Fashion Care

08096

15-SEP-08

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Texas certification numbers:
Houston, TX T104704215 - Odessa/Midland, TX T104704215-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

15-SEP-08

Project Manager: **Len Diprima**
Winter Environmental
3350 Green Pointe Parkway
Norcross, GA 30092

Reference: XENCO Report No: **311894**
Fashion Care
Project Address: GA

Len Diprima:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 311894. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 311894 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

David C. Fuller
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FMW-4	S	Sep-04-08 10:15	0 - 2 ft	311894-001
FMW-4	S	Sep-04-08 10:25	4 - 8 ft	311894-002
FMW-4	S	Sep-04-08 10:35	11 - 13 ft	311894-003
SB-27	S	Sep-04-08 11:30	0 - 2 ft	311894-004
FMW-6	W	Sep-05-08 13:05		311894-005
FMW-5	W	Sep-05-08 14:45		311894-006
DUP30108	W	Sep-05-08 00:00		311894-007
TBLK30108	W	Sep-05-08 00:00		311894-008

Certificate of Analytical Results 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-4**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **311894-001**	Date Collected: **Sep-04-08 10:15**	Date Received: **Sep-05-08 16:05**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5035

Date Analyzed: Sep-10-08 15:29 Analyst: 4124 Date Prep: Sep-10-08 06:39 Tech: 4124

Seq Number: 733833

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	2.7	0.43	ug/kg	U	1
1,1-Dichloroethene	75-35-4	U	2.7	0.62	ug/kg	U	1
Acetone	67-64-1	39	27	3.6	ug/kg		1
Benzene	71-43-2	1.6	0.53	0.27	ug/kg		1
cis-1,2-Dichloroethene	156-59-2	41	2.7	0.35	ug/kg		1
Cyclohexane	110-82-7	U	2.7	0.50	ug/kg	U	1
Ethylbenzene	100-41-4	U	0.53	0.30	ug/kg	U	1
Isopropylbenzene	98-82-8	U	2.7	0.40	ug/kg	U	1
Tetrachloroethene	127-18-4	8.7	2.7	0.55	ug/kg		1
Toluene	108-88-3	U	0.53	0.31	ug/kg	U	1
trans-1,2-Dichloroethene	156-60-5	U	2.7	0.41	ug/kg	U	1
Trichloroethene	79-01-6	7.5	2.7	0.37	ug/kg		1
Vinyl chloride	75-01-4	8.0	2.7	1.1	ug/kg		1
m,p-Xylenes	179601-23-1	U	1.1	0.64	ug/kg	U	1
o-Xylene	95-47-6	U	0.53	0.38	ug/kg	U	1
Xylenes, Total	1330-20-7	U			ug/kg	U	1

Project: Xenco-Atlanta Master Project

Version: 1.017

Certificate of Analytical Results 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-4**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **311894-002**	Date Collected: **Sep-04-08 10:25**	Date Received: **Sep-05-08 16:05**
Sample Depth: **4 - 8 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5035

Date Analyzed: Sep-10-08 15:59 Analyst: 4124 Date Prep: Sep-10-08 06:39 Tech: 4124

Seq Number: 733833

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	3.5	0.56	ug/kg	U	1
1,1-Dichloroethene	75-35-4	U	3.5	0.80	ug/kg	U	1
Acetone	67-64-1	U	35	4.8	ug/kg	U	1
Benzene	71-43-2	8.3	0.69	0.36	ug/kg		1
cis-1,2-Dichloroethene	156-59-2	120	3.5	0.46	ug/kg		1
Cyclohexane	110-82-7	U	3.5	0.65	ug/kg	U	1
Ethylbenzene	100-41-4	1.0	0.69	0.39	ug/kg		1
Isopropylbenzene	98-82-8	U	3.5	0.53	ug/kg	U	1
Tetrachloroethene	127-18-4	U	3.5	0.72	ug/kg	U	1
Toluene	108-88-3	5.6	0.69	0.41	ug/kg		1
trans-1,2-Dichloroethene	156-60-5	U	3.5	0.54	ug/kg	U	1
Trichloroethene	79-01-6	U	3.5	0.49	ug/kg	U	1
Vinyl chloride	75-01-4	16	3.5	1.4	ug/kg		1
m,p-Xylenes	179601-23-1	2.2	1.4	0.84	ug/kg		1
o-Xylene	95-47-6	1.7	0.69	0.50	ug/kg		1
Xylenes, Total	1330-20-7	3.9			ug/kg		1

Project: Xenco-Atlanta Master Project

Version: 1.017

Certificate of Analytical Results 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-4**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **311894-003**	Date Collected: **Sep-04-08 10:35**	Date Received: **Sep-05-08 16:05**
Sample Depth: **11 - 13 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-11-08 22:07 Analyst: 4124 Date Prep: Sep-11-08 16:33 Tech: 4124

Seq Number: 734040

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	150	24	ug/kg	U	30
1,1-Dichloroethene	75-35-4	U	150	35	ug/kg	U	30
Acetone	67-64-1	U	1500	210	ug/kg	U	30
Benzene	71-43-2	750	30	15	ug/kg		30
cis-1,2-Dichloroethene	156-59-2	1700	150	20	ug/kg		30
Cyclohexane	110-82-7	U	150	28	ug/kg	U	30
Ethylbenzene	100-41-4	330	30	17	ug/kg		30
Isopropylbenzene	98-82-8	U	150	23	ug/kg	U	30
Tetrachloroethene	127-18-4	50	150	31	ug/kg	J	30
Toluene	108-88-3	1500	30	18	ug/kg		30
trans-1,2-Dichloroethene	156-60-5	U	150	23	ug/kg	U	30
Trichloroethene	79-01-6	U	150	21	ug/kg	U	30
Vinyl chloride	75-01-4	96	150	61	ug/kg	J	30
m,p-Xylenes	179601-23-1	730	60	36	ug/kg		30
o-Xylene	95-47-6	420	30	22	ug/kg		30
Xylenes, Total	1330-20-7	1150			ug/kg		30

Project: Xenco-Atlanta Master Project

Version: 1.017

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-27**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **311894-004**	Date Collected: **Sep-04-08 11:30**	Date Received: **Sep-05-08 16:05**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5035

Date Analyzed: Sep-11-08 13:05 Analyst: 4124 Date Prep: Sep-11-08 07:05 Tech: 4124

Seq Number: 734010

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	2.6	0.42	ug/kg	U	1
1,1-Dichloroethene	75-35-4	U	2.6	0.61	ug/kg	U	1
Acetone	67-64-1	170	26	3.6	ug/kg		1
Benzene	71-43-2	U	0.52	0.27	ug/kg	U	1
cis-1,2-Dichloroethene	156-59-2	68	130	18	ug/kg	J	27
Cyclohexane	110-82-7	U	2.6	0.50	ug/kg	U	1
Ethylbenzene	100-41-4	U	0.52	0.30	ug/kg	U	1
Isopropylbenzene	98-82-8	U	2.6	0.40	ug/kg	U	1
Tetrachloroethene	127-18-4	18000	1300	280	ug/kg	D	268
Toluene	108-88-3	2.6	0.52	0.31	ug/kg		1
trans-1,2-Dichloroethene	156-60-5	U	2.6	0.41	ug/kg	U	1
Trichloroethene	79-01-6	120	130	19	ug/kg	J	27
Vinyl chloride	75-01-4	U	2.6	1.1	ug/kg	U	1
m,p-Xylenes	179601-23-1	U	1.0	0.63	ug/kg	U	1
o-Xylene	95-47-6	U	0.52	0.38	ug/kg	U	1
Xylenes, Total	1330-20-7	U			ug/kg		1

Project: Xenco-Atlanta Master Project

Version: 1.017

Certificate of Analytical Results 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-6** Matrix: **WATER** % Moisture:
Lab Sample Id: **311894-005** Date Collected: **Sep-05-08 13:05** Date Received: **Sep-05-08 16:05**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-10-08 17:00 Analyst: 4154 Date Prep: Sep-05-08 17:00 Tech: 4154
Seq Number: 733806

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		1.60	2.00	1.50	mg/L	J	1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-08-08 08:45 Analyst: 4099 Date Prep: Tech: 4099
Seq Number: 733491

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		U	10	5.3	mg/L	U	1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 14:35 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	U	0.100	0.017	mg/L	U	1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-11-08 13:15 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 733952

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	4.8	1.0	0.062	mg/L		1
Sulfate	14808-79-8	3.1	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-09-08 15:12 Analyst: RCH Date Prep: Sep-08-08 11:15 Tech: ABA
Seq Number: 733658

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.017	0.010	0.004	mg/L	B	1
Barium	7440-39-3	0.096	0.050	0.001	mg/L		1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	U	0.050	0.002	mg/L	U	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	0.004	0.010	0.003	mg/L	J	1
Sodium	7440-23-5	9.95	5.00	0.702	mg/L		1

Project: Xenco-Atlanta Master Project

Version: 1.017

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-6** Matrix: **WATER** % Moisture:
Lab Sample Id: **311894-005** Date Collected: **Sep-05-08 13:05** Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-11-08 17:05 Analyst: NTR Date Prep: Sep-11-08 08:28 Tech: 4148
Seq Number: 734038

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	1.8	1.0	0.16	ug/L		1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	180	1.0	0.21	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	260	2.0	0.18	ug/L		1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

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Version: 1.017

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-6**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **311894-005**	Date Collected: **Sep-05-08 13:05**	Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-11-08 17:05 Analyst: NTR Date Prep: Sep-11-08 08:28 Tech: 4148

Seq Number: 734038

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	1100	50	8.0	ug/L	D	50
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	3.6	1.0	0.21	ug/L		1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	56	1.0	0.19	ug/L		1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L		1

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Version: 1.017

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-5** Matrix: **WATER** % Moisture:
Lab Sample Id: **311894-006** Date Collected: **Sep-05-08 14:45** Date Received: **Sep-05-08 16:05**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-10-08 17:00 Analyst: 4154 Date Prep: Sep-05-08 17:00 Tech: 4154
Seq Number: 733806

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		1.97	2.00	1.50	mg/L	J	1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-08-08 08:45 Analyst: 4099 Date Prep: Tech: 4099
Seq Number: 733491

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		9.5	10	5.3	mg/L	J	1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 14:42 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	4.91	0.100	0.017	mg/L		1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-11-08 14:25 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 733952

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	5.9	1.0	0.062	mg/L		1
Sulfate	14808-79-8	2.8	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-09-08 15:14 Analyst: RCH Date Prep: Sep-08-08 11:15 Tech: ABA
Seq Number: 733658

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.007	0.010	0.004	mg/L	JB	1
Barium	7440-39-3	0.065	0.050	0.001	mg/L		1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	U	0.050	0.002	mg/L	U	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	10.4	5.00	0.702	mg/L		1

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Version: 1.017

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-5** Matrix: **WATER** % Moisture:
Lab Sample Id: **311894-006** Date Collected: **Sep-05-08 14:45** Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-11-08 18:38 Analyst: NTR Date Prep: Sep-11-08 08:28 Tech: 4148
Seq Number: 734038

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	1.8	1.0	0.16	ug/L		1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	100	1.0	0.21	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	22	2.0	0.18	ug/L		1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-5**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **311894-006**	Date Collected: **Sep-05-08 14:45**	Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-11-08 18:38 Analyst: NTR Date Prep: Sep-11-08 08:28 Tech: 4148

Seq Number: 734038

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	4700	100	16	ug/L	D	100
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	100	1.0	0.19	ug/L		1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L		1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **DUP30108** Matrix: **WATER** % Moisture:
Lab Sample Id: **311894-007** Date Collected: **Sep-05-08 00:00** Date Received: **Sep-05-08 16:05**

Analytical Method: BOD by SM5210B Prep Method: SM5210P

Date Analyzed: Sep-10-08 17:00 Analyst: 4154 Date Prep: Sep-05-08 17:00 Tech: 4154
Seq Number: 733806

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		1.70	2.00	1.50	mg/L	J	1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Sep-08-08 08:45 Analyst: 4099 Date Prep: Tech: 4099
Seq Number: 733491

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		U	10	5.3	mg/L	U	1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Sep-11-08 14:48 Analyst: 4150 Date Prep: Sep-10-08 14:53 Tech: ABA
Seq Number: 733922

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	U	0.100	0.017	mg/L	U	1

Analytical Method: Inorganic Anions by SW-846 9056 Prep Method:

Date Analyzed: Sep-11-08 14:42 Analyst: SNL Date Prep: Tech: SNL
Seq Number: 733952

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	4.8	1.0	0.062	mg/L		1
Sulfate	14808-79-8	3.0	1.0	0.062	mg/L		1

Analytical Method: Metals, Total by SW846 6010B Prep Method: SW3010A

Date Analyzed: Sep-09-08 15:15 Analyst: RCH Date Prep: Sep-08-08 11:15 Tech: ABA
Seq Number: 733658

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.004	mg/L	U	1
Barium	7440-39-3	0.097	0.050	0.001	mg/L		1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Copper	7440-50-8	U	0.050	0.002	mg/L	U	1
Lead	7439-92-1	U	0.010	0.004	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.003	mg/L	U	1
Sodium	7440-23-5	9.95	5.00	0.702	mg/L		1

Project: Xenco-Atlanta Master Project

Version: 1.017

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **DUP30108** Matrix: **WATER** % Moisture:
Lab Sample Id: **311894-007** Date Collected: **Sep-05-08 00:00** Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-12-08 14:07 Analyst: 4124 Date Prep: Sep-12-08 06:30 Tech: 4124
Seq Number: 734083

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	2.8	1.0	0.18	ug/L		1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	1.6	1.0	0.16	ug/L		1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	180	1.0	0.21	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	260	2.0	0.18	ug/L		1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.017

Certificate of Analytical Results 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **DUP30108**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **311894-007**	Date Collected: **Sep-05-08 00:00**	Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-12-08 14:07 Analyst: 4124 Date Prep: Sep-12-08 06:30 Tech: 4124

Seq Number: 734083

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	2200	100	16	ug/L	D	100
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	3.9	1.0	0.21	ug/L		1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	50	1.0	0.19	ug/L		1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L		1

Project: Xenco-Atlanta Master Project

Version: 1.017

Certificate of Analytical Results 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **TBLK30108**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **311894-008**	Date Collected: **Sep-05-08 00:00**	Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-11-08 16:36 Analyst: NTR Date Prep: Sep-11-08 08:28 Tech: 4148

Seq Number: 734038

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.0	0.20	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	U	1.0	0.16	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.0	0.21	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	U	1.0	0.15	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	U	1.0	0.19	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.0	0.15	ug/L	U	1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.0	0.18	ug/L	U	1
Methylcyclohexane	108-87-2	U	1.0	0.11	ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.017

Certificate of Analytical Results 311894

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **TBLK30108** Matrix: **WATER** % Moisture:
Lab Sample Id: **311894-008** Date Collected: **Sep-05-08 00:00** Date Received: **Sep-05-08 16:05**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-11-08 16:36 Analyst: NTR Date Prep: Sep-11-08 08:28 Tech: 4148
Seq Number: 734038

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.0	0.16	ug/L	U	1
Toluene	108-88-3	U	1.0	0.14	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.0	0.21	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	U	1.0	0.19	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	U	1.0	0.19	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.0	0.51	ug/L	U	1
o-Xylene	95-47-6	U	1.0	0.20	ug/L	U	1
Xylenes, Total	1330-20-7	U			ug/L	U	1

Project: Xenco-Atlanta Master Project

Version: 1.017

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

* Outside XENCO'S scope of NELAC Accreditation

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 733833 **Sample:** 311694-002 S / MS **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	46	50	92	53-135	
4-Bromofluorobenzene	61	50	122	53-175	
Toluene-D8	55	50	110	56-126	

Lab Batch #: 733833 **Sample:** 311694-002 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47	50	94	53-135	
4-Bromofluorobenzene	58	50	116	53-175	
Toluene-D8	56	50	112	56-126	

Lab Batch #: 733833 **Sample:** 311894-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	56	50	112	53-135	
4-Bromofluorobenzene	56	50	112	53-175	
Toluene-D8	51	50	102	56-126	

Lab Batch #: 733833 **Sample:** 311894-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54	50	108	53-135	
4-Bromofluorobenzene	53	50	106	53-175	
Toluene-D8	50	50	100	56-126	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 733833 **Sample:** 515472-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48	50	96	53-135	
4-Bromofluorobenzene	50	50	100	53-175	
Toluene-D8	50	50	100	56-126	

Lab Batch #: 733833 **Sample:** 515472-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	53-135	
4-Bromofluorobenzene	50	50	100	53-175	
Toluene-D8	51	50	102	56-126	

Lab Batch #: 734010 **Sample:** 311830-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47	50	94	53-135	
4-Bromofluorobenzene	57	50	114	53-175	
Toluene-D8	53	50	106	56-126	

Lab Batch #: 734010 **Sample:** 311830-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51	50	102	53-135	
4-Bromofluorobenzene	60	50	120	53-175	
Toluene-D8	53	50	106	56-126	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 734010 **Sample:** 311894-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58	50	116	53-135	
4-Bromofluorobenzene	56	50	112	53-175	
Toluene-D8	52	50	104	56-126	

Lab Batch #: 734010 **Sample:** 515560-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47	50	94	53-135	
4-Bromofluorobenzene	50	50	100	53-175	
Toluene-D8	51	50	102	56-126	

Lab Batch #: 734010 **Sample:** 515560-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52	50	104	53-135	
4-Bromofluorobenzene	52	50	104	53-175	
Toluene-D8	51	50	102	56-126	

Lab Batch #: 734040 **Sample:** 311894-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51	50	102	53-135	
4-Bromofluorobenzene	51	50	102	53-175	
Toluene-D8	50	50	100	56-126	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 734040 **Sample:** 311894-004 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51	50	102	53-135	
4-Bromofluorobenzene	50	50	100	53-175	
Toluene-D8	51	50	102	56-126	

Lab Batch #: 734040 **Sample:** 515580-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47	50	94	53-135	
4-Bromofluorobenzene	50	50	100	53-175	
Toluene-D8	50	50	100	56-126	

Lab Batch #: 734040 **Sample:** 515580-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	53-135	
4-Bromofluorobenzene	51	50	102	53-175	
Toluene-D8	50	50	100	56-126	

Lab Batch #: 734089 **Sample:** 311894-004 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	53-135	
4-Bromofluorobenzene	50	50	100	53-175	
Toluene-D8	49	50	98	56-126	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 734089 **Sample:** 515609-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	44	50	88	53-135	
4-Bromofluorobenzene	51	50	102	53-175	
Toluene-D8	50	50	100	56-126	

Lab Batch #: 734089 **Sample:** 515609-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	53-135	
4-Bromofluorobenzene	50	50	100	53-175	
Toluene-D8	49	50	98	56-126	

Lab Batch #: 734038 **Sample:** 311894-005 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51.91	50.00	104	53-159	
4-Bromofluorobenzene	59.53	50.00	119	30-186	
Toluene-D8	37.65	50.00	75	70-130	

Lab Batch #: 734038 **Sample:** 311894-005 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52.66	50.00	105	53-159	
4-Bromofluorobenzene	56.63	50.00	113	30-186	
Toluene-D8	38.19	50.00	76	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 734038 **Sample:** 311894-006 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49.56	50.00	99	53-159	
4-Bromofluorobenzene	56.50	50.00	113	30-186	
Toluene-D8	38.45	50.00	77	70-130	

Lab Batch #: 734038 **Sample:** 311894-008 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54.96	50.00	110	53-159	
4-Bromofluorobenzene	57.33	50.00	115	30-186	
Toluene-D8	39.28	50.00	79	70-130	

Lab Batch #: 734038 **Sample:** 311895-005 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	56.72	50.00	113	53-159	
4-Bromofluorobenzene	50.73	50.00	101	30-186	
Toluene-D8	33.27	50.00	67	70-130	**

Lab Batch #: 734038 **Sample:** 311895-005 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	55.00	50.00	110	53-159	
4-Bromofluorobenzene	50.46	50.00	101	30-186	
Toluene-D8	33.93	50.00	68	70-130	**

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 734038 **Sample:** 515578-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54.84	50.00	110	53-159	
4-Bromofluorobenzene	47.93	50.00	96	30-186	
Toluene-D8	53.66	50.00	107	70-130	

Lab Batch #: 734038 **Sample:** 515578-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	56.64	50.00	113	53-159	
4-Bromofluorobenzene	54.56	50.00	109	30-186	
Toluene-D8	63.62	50.00	127	70-130	

Lab Batch #: 734083 **Sample:** 311894-006 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53.07	50.00	106	53-159	
4-Bromofluorobenzene	50.31	50.00	101	30-186	
Toluene-D8	49.61	50.00	99	77-124	

Lab Batch #: 734083 **Sample:** 311894-007 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53.32	50.00	107	53-159	
4-Bromofluorobenzene	50.29	50.00	101	30-186	
Toluene-D8	49.09	50.00	98	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 734083 **Sample:** 311894-007 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52.74	50.00	105	53-159	
4-Bromofluorobenzene	50.29	50.00	101	30-186	
Toluene-D8	50.72	50.00	101	77-124	

Lab Batch #: 734083 **Sample:** 311895-006 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47.10	50.00	94	53-159	
4-Bromofluorobenzene	50.32	50.00	101	30-186	
Toluene-D8	49.43	50.00	99	77-124	

Lab Batch #: 734083 **Sample:** 311895-006 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	47.81	50.00	96	53-159	
4-Bromofluorobenzene	50.59	50.00	101	30-186	
Toluene-D8	49.49	50.00	99	77-124	

Lab Batch #: 734083 **Sample:** 515602-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	43.58	50.00	87	53-159	
4-Bromofluorobenzene	50.86	50.00	102	30-186	
Toluene-D8	50.33	50.00	101	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 311894, **Project ID:** 08096

Lab Batch #: 734083 **Sample:** 515602-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50.23	50.00	100	53-159	
4-Bromofluorobenzene	50.13	50.00	100	30-186	
Toluene-D8	49.40	50.00	99	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 311894 **Project ID:** 08096

Lab Batch #: 733833 **Sample:** 515472-1-BKS **Matrix:** Solid
Date Analyzed: 09/10/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4124
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<5.0	50	56	112	35-170	
Benzene	<1.0	50	49	98	52-144	
Toluene	<1.0	50	50	100	51-137	
Trichloroethene	<5.0	50	50	100	50-150	

Lab Batch #: 734010 **Sample:** 515560-1-BKS **Matrix:** Solid
Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** 4124
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<5.0	50	60	120	35-170	
Benzene	<1.0	50	51	102	52-144	
Toluene	<1.0	50	52	104	51-137	
Trichloroethene	<5.0	50	49	98	50-150	

Lab Batch #: 734040 **Sample:** 515580-1-BKS **Matrix:** Solid
Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** 4124
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<250	2500	2400	96	35-170	
Benzene	<50	2500	2400	96	52-144	
Toluene	<50	2500	2400	96	51-137	
Trichloroethene	<250	2500	2200	88	50-150	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 311894 **Project ID:** 08096

Lab Batch #: 734089 **Sample:** 515609-1-BKS **Matrix:** Solid
Date Analyzed: 09/12/2008 **Date Prepared:** 09/12/2008 **Analyst:** 4124
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<250	2500	2200	88	35-170	
Benzene	<50	2500	2200	88	52-144	
Toluene	<50	2500	2100	84	51-137	
Trichloroethene	<250	2500	2100	84	50-150	

Lab Batch #: 734038 **Sample:** 515578-1-BKS **Matrix:** Water
Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** NTR
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

TCL VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.0	50	51	102	70-130	
Benzene	<1.0	50	50	100	80-120	
Chlorobenzene	<1.0	50	45	90	80-120	
Toluene	<1.0	50	51	102	75-120	
Trichloroethene	<1.0	50	47	94	70-125	

Lab Batch #: 734083 **Sample:** 515602-1-BKS **Matrix:** Water
Date Analyzed: 09/12/2008 **Date Prepared:** 09/12/2008 **Analyst:** 4124
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

TCL VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.0	50	43	86	70-130	
Benzene	<1.0	50	44	88	80-120	
Chlorobenzene	<1.0	50	43	86	80-120	
Toluene	<1.0	50	43	86	75-120	
Trichloroethene	<1.0	50	41	82	70-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 311894 **Project ID:** 08096

Analyst: 4154 **Date Prepared:** 09/05/2008 **Date Analyzed:** 09/10/2008

Lab Batch ID: 733806 **Sample:** 515460-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BOD by SM5210B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	<2.00	200	198	99	200	199	100	1	70-120	20	

Analyst: 4099 **Date Prepared:** 09/08/2008 **Date Analyzed:** 09/08/2008

Lab Batch ID: 733491 **Sample:** 733491-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chemical Oxygen Demand by SM 5220D Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	<10	200	210	105	200	200	100	5	71-128	20	

Analyst: 4150 **Date Prepared:** 09/10/2008 **Date Analyzed:** 09/11/2008

Lab Batch ID: 733922 **Sample:** 515438-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	0.023	11.0	9.70	88	11	9.73	88	0	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 311894 **Project ID:** 08096

Analyst: SNL **Date Prepared:** 09/11/2008 **Date Analyzed:** 09/11/2008

Lab Batch ID: 733952 **Sample:** 733952-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by SW-846 9056 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<1.0	10	9.1	91	10	9.2	92	1	70-125	20	
Sulfate	<1.0	10	9.1	91	10	9.1	91	0	70-125	20	

Analyst: RCH **Date Prepared:** 09/08/2008 **Date Analyzed:** 09/09/2008

Lab Batch ID: 733658 **Sample:** 515260-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Metals, Total by SW846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.004	1.00	1.01	101	1	0.945	95	7	75-125	20	
Barium	<0.050	1.00	1.04	104	1	0.965	97	7	75-125	20	
Cadmium	<0.005	1.00	1.05	105	1	0.978	98	7	75-125	20	
Chromium	<0.050	1.00	1.06	106	1	0.988	99	7	75-125	20	
Copper	<0.050	1.00	1.05	105	1	0.980	98	7	75-125	20	
Lead	<0.010	1.00	1.04	104	1	0.967	97	7	75-125	20	
Selenium	<0.010	1.00	1.03	103	1	0.974	97	6	75-125	20	
Sodium	<5.00	9.00	11.0	122	9	10.0	111	10	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 311894 **Project ID:** 08096

Lab Batch ID: 733491 **QC- Sample ID:** 311607-001 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 09/08/2008 **Date Prepared:** 09/08/2008 **Analyst:** 4099
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chemical Oxygen Demand by SM 5220D Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	100	200	320	110	200	310	105	5	71-128	20	

Lab Batch ID: 733922 **QC- Sample ID:** 311894-005 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	11.0	9.93	90	11.0	10.6	96	6	75-125	20	

Lab Batch ID: 733952 **QC- Sample ID:** 311894-005 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** SNL
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by SW-846 9056 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	4.8	10	14	92	10	14	92	0	70-125	20	
Sulfate	3.1	10	12	89	10	12	89	0	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 311894 **Project ID:** 08096

Lab Batch ID: 733658 **QC- Sample ID:** 311892-002 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/09/2008 **Date Prepared:** 09/08/2008 **Analyst:** RCH

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Metals, Total by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.010	1.00	1.02	102	1.00	1.02	102	0	75-125	20	
Barium	0.014	1.00	1.05	104	1.00	1.04	103	1	75-125	20	
Cadmium	<0.005	1.00	1.05	105	1.00	1.04	104	1	75-125	20	
Chromium	0.078	1.00	1.12	104	1.00	1.13	105	1	75-125	20	
Copper	0.009	1.00	1.05	104	1.00	1.05	104	0	75-125	20	
Lead	0.004	1.00	1.03	103	1.00	1.02	102	1	75-125	20	
Selenium	<0.010	1.00	1.02	102	1.00	1.03	103	1	75-125	20	
Sodium	7.84	9.00	16.6	97	9.00	16.8	100	3	75-125	20	

Lab Batch ID: 733833 **QC- Sample ID:** 311694-002 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 09/10/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4124

Reporting Units: ug/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<2.9	52	46	88	43	37	86	2	35-170	20	
Benzene	<2.9	52	38	73	43	29	67	9	38-158	20	
Toluene	<2.9	52	35	67	43	26	60	11	50-150	20	
Trichloroethene	<2.9	52	31	60	43	24	56	7	50-150	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 311894 **Project ID:** 08096

Lab Batch ID: 734010 **QC- Sample ID:** 311830-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** 4124

Reporting Units: ug/kg

Select VOCs by SW-846 8260B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<3.8	44	58	132	43	46	107	21	35-170	20	F
Benzene	<0.77	44	47	107	43	38	88	19	38-158	20	
Toluene	<0.77	44	49	111	43	39	91	20	50-150	20	
Trichloroethene	<3.8	44	45	102	43	37	86	17	50-150	20	

Lab Batch ID: 734038 **QC- Sample ID:** 311895-005 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** NTR

Reporting Units: ug/L

TCL VOCs by SW-846 8260B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<1.0	50	54	108	50	52	104	4	70-130	20	
Benzene	<1.0	50	45	90	50	49	98	9	80-120	20	
Chlorobenzene	<1.0	50	46	92	50	48	96	4	80-120	20	
Toluene	<1.0	50	34	68	50	35	70	3	75-120	20	X
Trichloroethene	<1.0	50	47	94	50	48	96	2	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 311894 **Project ID:** 08096

Lab Batch ID: 734083 **QC- Sample ID:** 311895-006 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/12/2008 **Date Prepared:** 09/12/2008 **Analyst:** 4124

Reporting Units: ug/L

TCL VOCs by SW-846 8260B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<1.0	50	48	96	50	47	94	2	70-130	20	
Benzene	<1.0	50	46	92	50	46	92	0	80-120	20	
Chlorobenzene	<1.0	50	47	94	50	45	90	4	80-120	20	
Toluene	<1.0	50	46	92	50	45	90	2	75-120	20	
Trichloroethene	<1.0	50	44	88	50	44	88	0	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 311894

Lab Batch #: 733806 **Project ID:** 08096
Date Analyzed: 09/10/2008 **Date Prepared:** 09/05/2008 **Analyst:** 4154
QC- Sample ID: 311792-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

BOD by SM5210B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	<2.00	<2.00	NC	20	

Lab Batch #: 733491
Date Analyzed: 09/08/2008 **Date Prepared:** 09/08/2008 **Analyst:** 4099
QC- Sample ID: 311607-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Chemical Oxygen Demand by SM 5220D Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	100	110	10	20	

Lab Batch #: 733922
Date Analyzed: 09/11/2008 **Date Prepared:** 09/10/2008 **Analyst:** 4150
QC- Sample ID: 311894-005 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Dissolved Metals by SW-846 6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	<0.100	NC	20	

Lab Batch #: 733952
Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** SNL
QC- Sample ID: 311894-005 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Inorganic Anions by SW-846 9056 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	4.8	4.8	0	20	
Sulfate	3.1	3.1	0	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 311894

Lab Batch #: 733952 **Project ID:** 08096
Date Analyzed: 09/11/2008 **Date Prepared:** 09/11/2008 **Analyst:** SNL
QC- Sample ID: 312278-002 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Inorganic Anions by SW-846 9056 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	3.4	3.5	3	20	
Sulfate	<1.0	<1.0	NC	20	

Lab Batch #: 733658
Date Analyzed: 09/09/2008 **Date Prepared:** 09/08/2008 **Analyst:** RCH
QC- Sample ID: 311892-002 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Metals, Total by SW846 6010B Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Arsenic	<0.010	<0.010	NC	20	
Barium	0.014	<0.050	NC	20	
Cadmium	<0.005	<0.005	NC	20	
Chromium	0.078	0.078	0	20	
Copper	0.009	<0.050	NC	20	
Lead	0.004	<0.010	NC	20	
Selenium	<0.010	<0.010	NC	20	
Sodium	7.84	7.24	8	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

XENCO Laboratories

☐ 5757 N.W. 158th Street, Miami Lakes, Fl 33014 305-823-8500
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☐ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

☐ Philadephia/New Jersey 610-955-5649

Serial #: 219056 Page 1 of 1

Company-City: Winter Environmental Norcross **Phone:**

Lab Only: WO# 311894

Proj Name-Location: Fashion Care ☐ Previously done at XENCO **Project ID:** 08096

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Proj State: AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, TX, UT Other **Proj. Manager (PM):** Len Diprima

Fax Results to ☐ PM or **e-mail to:** LDiprima@WinterEnvironmental.com **Fax No:**

Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O Bill to:

Quote/Pricing: **P.O No:** ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA

QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

LPST No.:

Sampler Name: Joe King Signature: Joe D King

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs BTEX-MTBE VOHs VOAs PP TCL Appdx 1 Appdx 2	Method: 8260 8021 624 524	PAHs: 8270 8100 8310 8270_SIM	TRPH by FL PRO DRO GRO MA EPH MA VPH	SVOCs: 8270 625 - (BN&AE) (TCL) (PP) (Appdx 2)	Pest. (8081 / 608) PCBs (8082 / 608) Herb. (8151 / 615)	EDB / DBCP (8011 / 504)	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	Metals Methods: 6020 / 6010 / 200.8 / 7470 / 7471	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	FL Preburn: Virgin Non-Virgin	Anions, BOD Diss. Iron COD						TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Sample Clean-ups are pre-approved as needed	Remarks: See Analysis list w/COC		Addn: Date Rcv by: From:	
1	FMW-4	9-4-08	1015	0-2'	S		X	4	V2	C	L	X											X	X	X									X			1
2	FMW-4	9-4-08	1025	4-8'	S		X	4	V2	C	L	X																						X			2
3	FMW-4	9-4-08	1035	11-13'	S		X	4	V2	C	L	X																						X			3
4	SB-27	9-4-08	1130	0-2'	S		X	4	V2	C	L	X																						X			4
5	FMW-6	9-5-08	1305	—	W		X	6			L	X								X			X	X	X									X			5
6	FMW-5	9-5-08	1445	—	W		X	6			L	X								X			X	X	X									X			6
7	DUP30108	9-5-08		—	W		X	6			L	X								X			X	X	X									X			7
8	TBLK30108	9-5-08		—	W		X	2	V	C	L	X																									8
9																																					9
10																																					10

	Relinquished by (Initials and Sign)		Date & Time		Relinquished to (Initials and Sign)		Date & Time
1	1) Joe D King	JDK	9-5-08	1605	2) [signature]		9/5/08 1605
2	3)				4)		
3	5)				6)		

Total Containers per COC: Cooler Temp: 4 °C

All XENCO Standard Terms and Conditions Apply.

Rush Charges are Pre-Approved upon Requesting them.

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O) _____

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tedlar Bag (B), Wipe (W), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Other (O) _____

Matrix: Air (A), Product (P), Solid(S), Water (W)

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Winter

Date/ Time: 9/5/08 1605

Lab ID # : 311894

Initials: JM

Sample Receipt Checklist

#1	Temperature of cooler?				4°C
#2	Shipping container in good condition?	YES	No	None	
#3	Samples received on ice?	YES	No	N/A	Blue/Water
#4	Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	N/A	
#6	Chain of Custody present?	YES	No		
#7	Sample instructions complete of Chain of Custody?	YES	No		
#8	Any missing/extra samples?	Yes	NO		
#9	Chain of Custody signed when relinquished/ received?	YES	No		
#10	Chain of Custody agrees with sample label(s)?	YES	No		
#11	Container label(s) legible and intact?	YES	No		
#12	Sample matrix/ properties agree with Chain of Custody?	YES	No		
#13	Samples in proper container/ bottle?	YES	No		
#14	Samples properly preserved?	YES	No	N/A	
#15	Sample container(s) intact?	YES	No		
#16	Sufficient sample amount for indicated test(s)?	YES	No		
#17	All samples received within sufficient hold time?	YES	No		
#18	Subcontract of sample(s)?	Yes	NO		
#19	VOC samples have zero headspace?	YES	No	N/A	

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Laboratory Analysis List
Fashion Care/Executive Care Site
Winter Environmental Project No. 08096

- VOCs (soil):
  - Tetrachloroethene (PCE)
  - cis-1, 2-Dichloroethene
  - trans-1, 2-Dichloroethene
  - 1, 1-Dichloroethene (1,1-DCE)
  - Trichloroethene (TCE)
  - Vinyl Chloride (VC)
  - Benzene
  - Toluene
  - Ethylbenzene
  - Total Xylenes
  - Cyclohexane
  - Isopropylbenzene
  - 1, 1-Dichloroethane
  - Acetone
- VOCs (groundwater/surface water): TCL List plus 1,4-dioxane
- Metals (groundwater/surface water):
  - arsenic
  - barium
  - lead
  - selenium
  - cadmium
  - chromium
  - copper
- BOD & COD (groundwater/surface water)
- Anions (groundwater/surface water): sodium, chlorides, SO4

Analytical Report 312130

for

Winter Environmental

Project Manager: Len Diprima

Fashion Care

08096

18-SEP-08

E84880

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Texas certification numbers:
Houston, TX T104704215 - Odessa/Midland, TX T104704215-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

18-SEP-08

Project Manager: **Len Diprima**
Winter Environmental
3350 Green Pointe Parkway
Norcross, GA 30092

Reference: XENCO Report No: **312130**
Fashion Care
Project Address: GA

Len Diprima:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 312130. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 312130 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

David C. Fuller
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 312130

Winter Environmental, Norcross, GA

Fashion Care

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-26	W	Sep-10-08 06:50		312130-001

Certificate of Analytical Results 312130

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-26** Matrix: **WATER** % Moisture:
Lab Sample Id: **312130-001** Date Collected: **Sep-10-08 06:50** Date Received: **Sep-10-08 07:55**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 16:24 Analyst: 4124 Date Prep: Sep-13-08 10:56 Tech: NTR
Seq Number: 734094

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.0	0.16	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.0	0.18	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.0	0.11	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.0	0.25	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.0	0.11	ug/L	U	1
1,1-Dichloroethene	75-35-4	6.0	1.0	0.20	ug/L		1
1,2,4-Trichlorobenzene	120-82-1	U	1.0	0.17	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.0	0.19	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.0	0.18	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.0	0.14	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.0	0.18	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.0	0.15	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.0	0.17	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.0	0.17	ug/L	U	1
1,4-Dioxane	123-91-1	U	20	8.8	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.0	0.28	ug/L	U	1
2-Hexanone	591-78-6	U	2.0	0.32	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.0	0.26	ug/L	U	1
Acetone	67-64-1	U	2.0	0.35	ug/L	U	1
Benzene	71-43-2	530	50	8.0	ug/L	D	50
Bromodichloromethane	75-27-4	U	1.0	0.25	ug/L	U	1
Bromoform	75-25-2	U	1.0	0.17	ug/L	U	1
Bromomethane	74-83-9	U	1.0	0.25	ug/L	U	1
Carbon disulfide	75-15-0	U	1.0	0.26	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.0	0.33	ug/L	U	1
Chlorobenzene	108-90-7	U	1.0	0.15	ug/L	U	1
Chloroethane	75-00-3	U	1.0	0.26	ug/L	U	1
Chloroform	67-66-3	U	1.0	0.16	ug/L	U	1
Chloromethane	74-87-3	U	1.0	0.25	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	4000	50	11	ug/L	D	50
cis-1,3-Dichloropropene	10061-01-5	U	1.0	0.10	ug/L	U	1
Cyclohexane	110-82-7	180	1.0	0.15	ug/L		1
Dibromochloromethane	124-48-1	U	1.0	0.15	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.0	0.22	ug/L	U	1
Ethylbenzene	100-41-4	230	50	9.5	ug/L	D	50
Isopropylbenzene	98-82-8	43	1.0	0.15	ug/L		1
Methyl acetate	79-20-9	U	2.0	0.26	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.0	0.18	ug/L	U	1
Methylcyclohexane	108-87-2	140	1.0	0.11	ug/L		1

Project: Xenco-Atlanta Master Project

Version: 1.000

Certificate of Analytical Results 312130

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-26**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **312130-001**	Date Collected: **Sep-10-08 06:50**	Date Received: **Sep-10-08 07:55**

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Sep-13-08 16:24 Analyst: 4124 Date Prep: Sep-13-08 10:56 Tech: NTR

Seq Number: 734094

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylene chloride	75-09-2	U	1.0	0.42	ug/L	U	1
Styrene	100-42-5	U	1.0	0.18	ug/L	U	1
Tetrachloroethene	127-18-4	4800	50	8.0	ug/L	D	50
Toluene	108-88-3	81	1.0	0.14	ug/L		1
trans-1,2-Dichloroethene	156-60-5	39	1.0	0.21	ug/L		1
trans-1,3-Dichloropropene	10061-02-6	U	1.0	0.11	ug/L	U	1
Trichloroethene	79-01-6	3400	50	9.5	ug/L	D	50
Trichlorofluoromethane	75-69-4	U	1.0	0.53	ug/L	U	1
Vinyl chloride	75-01-4	1000	50	9.5	ug/L	D	50
m,p-Xylenes	179601-23-1	100	2.0	0.51	ug/L		1
o-Xylene	95-47-6	8.2	1.0	0.20	ug/L		1
Xylenes, Total	1330-20-7	108.2			ug/L		1

Project: Xenco-Atlanta Master Project

Version: 1.000

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

* Outside XENCO'S scope of NELAC Accreditation

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312130, **Project ID:** 08096

Lab Batch #: 734094 **Sample:** 312019-001 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	37	50.00	74	53-159	
4-Bromofluorobenzene	49	50.00	98	30-186	
Toluene-D8	48	50.00	96	77-124	

Lab Batch #: 734094 **Sample:** 312019-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	37	50.00	74	53-159	
4-Bromofluorobenzene	48	50.00	96	30-186	
Toluene-D8	47	50.00	94	77-124	

Lab Batch #: 734094 **Sample:** 312130-001 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	37.76	50.00	76	53-159	
4-Bromofluorobenzene	50.00	50.00	100	30-186	
Toluene-D8	47.35	50.00	95	77-124	

Lab Batch #: 734094 **Sample:** 515610-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	33	50.00	66	53-159	
4-Bromofluorobenzene	50	50.00	100	30-186	
Toluene-D8	47	50.00	94	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312130, **Project ID:** 08096

Lab Batch #: 734094 **Sample:** 515610-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	34.77	50.00	70	53-159	
4-Bromofluorobenzene	48.48	50.00	96	30-186	
Toluene-D8	46.36	50.00	92	77-124	

Lab Batch #: 734293 **Sample:** 311875-001 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	35	50.00	70	53-159	
4-Bromofluorobenzene	49	50.00	98	30-186	
Toluene-D8	47	50.00	94	77-124	

Lab Batch #: 734293 **Sample:** 311875-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	36	50.00	72	53-159	
4-Bromofluorobenzene	48	50.00	96	30-186	
Toluene-D8	47	50.00	94	77-124	

Lab Batch #: 734293 **Sample:** 312130-001 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	40.55	50.00	81	53-159	
4-Bromofluorobenzene	49.63	50.00	99	30-186	
Toluene-D8	47.96	50.00	96	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 312130, **Project ID:** 08096

Lab Batch #: 734293 **Sample:** 515720-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	38	50.00	76	53-159	
4-Bromofluorobenzene	50	50.00	100	30-186	
Toluene-D8	47	50.00	94	77-124	

Lab Batch #: 734293 **Sample:** 515720-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	38.08	50.00	76	53-159	
4-Bromofluorobenzene	50.73	50.00	102	30-186	
Toluene-D8	46.83	50.00	94	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 312130 **Project ID:** 08096

Lab Batch #: 734094 **Sample:** 515610-1-BKS **Matrix:** Water
Date Analyzed: 09/13/2008 **Date Prepared:** 09/13/2008 **Analyst:** 4124
Reporting Units: ug/L **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.0	50	46	92	70-130	
Benzene	<1.0	50	44	88	80-120	
Chlorobenzene	<1.0	50	43	86	80-120	
Toluene	<1.0	50	44	88	75-120	
Trichloroethene	<1.0	50	43	86	70-125	

Lab Batch #: 734293 **Sample:** 515720-1-BKS **Matrix:** Water
Date Analyzed: 09/16/2008 **Date Prepared:** 09/16/2008 **Analyst:** 4124
Reporting Units: ug/L **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.0	50	46	92	70-130	
Benzene	<1.0	50	43	86	80-120	
Chlorobenzene	<1.0	50	41	82	80-120	
Toluene	<1.0	50	42	84	75-120	
Trichloroethene	<1.0	50	42	84	70-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 312130 **Project ID:** 08096

Lab Batch ID: 734094 **QC- Sample ID:** 312019-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/13/2008 **Date Prepared:** 09/13/2008 **Analyst:** 4124

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<5.0	50	42	84	50	45	90	7	70-130	20	
Benzene	<5.0	50	44	88	50	44	88	0	80-120	20	
Chlorobenzene	<5.0	50	42	84	50	42	84	0	80-120	20	
Toluene	<5.0	50	42	84	50	42	84	0	75-120	20	
Trichloroethene	<5.0	50	40	80	50	42	84	5	70-125	20	

Lab Batch ID: 734293 **QC- Sample ID:** 311875-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 09/17/2008 **Date Prepared:** 09/16/2008 **Analyst:** 4124

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<5.0	50	45	90	50	47	94	4	70-130	20	
Benzene	<5.0	50	47	94	50	46	92	2	80-120	20	
Chlorobenzene	7.3	50	47	79	50	47	79	0	80-120	20	X
Toluene	<5.0	50	56	112	50	48	96	15	75-120	20	
Trichloroethene	<5.0	50	44	88	50	44	88	0	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

XENCO Laboratories

☐ 5757 N.W. 158th Street, Miami Lakes, Fl 33014 305-823-8500
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☒ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

☐ Philadephia/New Jersey 610-955-5649

Serial #: 219055 Page 1 of 1

Company-City: Winter - Environmental
Phone: 404-588-3300
Lab Only: WO# 312130
Proj Name-Location: FashionCare ☐ Previously done at XENCO
Project ID: 08096
TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.
Proj State: AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, TX, UT Other
Proj. Manager (PM): Len Dipirma.
Fax Results to ☐ PM or **e-mail to:** LDipirma@Winter-Environmental.com **Fax No:** 404-223-6251
Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O Bill to:
Quote/Pricing: **P.O No:** ☐ Call for P.O.
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA
QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)
LPST No.:
Sampler Name Joe King Signature

	Sample ID	Sampling Date	Time	Depth ft' in" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs BTEX-MTBE VOHs VOAs PP TCL Appdx 1 Appdx 2	Method: 8260 8021 624 524	PAHs: 8270 8100 8310 8270_SIM	TRPH by FL PRO DRO GRO MA EPH MA VPH	SVOCs: 8270 625 - (BN&AE) (TCL) (PP) (Appdx 2)	Pest. (8081 / 608) PCBs (8082 / 608) Herb. (8151 / 615)	EDB / DBCP (8011 / 504)	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	Metals Methods: 6020 / 6010 / 200.8 / 7470 / 7471	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	FL Preburn: Virgin Non-Virgin	TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Remarks: Sample Clean-ups are pre-approved as needed	Addn: Date Rcv by: From:
1	SB-26	9-10-08	0750	—	W		X	2	V	C	L	X															1
2																											2
3																											3
4																											4
5																											5
6																						RMC					6
7																											7
8																											8
9																											9
10																											10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) JOK	9-10-08 0754	2) RMC	9-10-08 - 7:55
3)		4)	
5)		6)	

Total Containers per COC: 2 Cooler Temp: 2°C

All XENCO Standard Terms and Conditions Apply.
Rush Charges are Pre-Approved upon Requesting them.

Preservatives: Various (**V**), HCl pH<2 (**H**), H2SO4 pH<2 (**S**), HNO3 pH<2 (**N**), Asbc Acid&NaOH (**A**), ZnAc&NaOH (**Z**), (Cool,<4C) (**C**), None (**NA**), See Label (**L**), Other (**O**) _____
Cont. Size: 4oz (**4**), 8oz (**8**), 32oz (**32**), 40ml VOA (**V**), 1L (**1**), 500ml (**5**), Tedlar Bag (**B**), Wipe (**W**), Other _____ **Cont. Type:** Glass Amb (**A**), Glass Clear (**C**), Plastic (**P**), Other (**O**) _____
Matrix: Air (A), Product (P), Solid(S), Water (W)

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Laboratory Analysis List
Fashion Care/Executive Care Site
Winter Environmental Project No. 08096

- VOCs (soil):
  - Tetrachloroethene (PCE)
  - cis-1, 2-Dichloroethene
  - trans-1, 2-Dichloroethene
  - 1, 1-Dichloroethene (1,1-DCE)
  - Trichloroethene (TCE)
  - Vinyl Chloride (VC)
  - Benzene
  - Toluene
  - Ethylbenzene
  - Total Xylenes
  - Cyclohexane
  - Isopropylbenzene
  - 1, 1-Dichloroethane
  - Acetone
- VOCs (groundwater/surface water): TCL List plus 1,4-dioxane
- Metals (groundwater/surface water):
  - arsenic
  - barium
  - lead
  - selenium
  - cadmium
  - chromium
  - copper
- BOD & COD (groundwater/surface water)
- Anions (groundwater/surface water): sodium, chlorides, SO4

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Winter - Environmental

Date/ Time: 09/10/08 07:55

Lab ID # : 312130

Initials: DL

Sample Receipt Checklist

#1	Temperature of cooler?			2	°C
#2	Shipping container in good condition?	YES	No	None	
#3	Samples received on ice?	YES	No	N/A	Blue/Water
#4	Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	N/A	
#6	Chain of Custody present?	YES	No		
#7	Sample instructions complete of Chain of Custody?	YES	No		
#8	Any missing/extra samples?	Yes	NO		
#9	Chain of Custody signed when relinquished/ received?	YES	No		
#10	Chain of Custody agrees with sample label(s)?	YES	No		
#11	Container label(s) legible and intact?	YES	No		
#12	Sample matrix/ properties agree with Chain of Custody?	YES	No		
#13	Samples in proper container/ bottle?	YES	No		
#14	Samples properly preserved?	YES	No	N/A	
#15	Sample container(s) intact?	YES	No		
#16	Sufficient sample amount for indicated test(s)?	YES	No		
#17	All samples received within sufficient hold time?	YES	No		
#18	Subcontract of sample(s)?	Yes	NO		
#19	VOC samples have zero headspace?	YES	No	N/A	

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

December 2008 Analytical Data
Winter Environmental

WINTER ENVIRONMENTAL

Analytical Report 319251

for

Winter Environmental

Project Manager: Len Diprima

Fashion Care

08096

15-DEC-08

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Texas certification numbers:
Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

15-DEC-08

Project Manager: **Len Diprima**
Winter Environmental
3350 Green Pointe Parkway
Norcross, GA 30092

Reference: XENCO Report No: **319251**
Fashion Care
Project Address: GA

Len Diprima:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 319251. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 319251 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

David C. Fuller
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 319251

Winter Environmental, Norcross, GA

Fashion Care

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FMW-8	W	Dec-02-08 10:20		319251-001
FMW-8	W	Dec-02-08 10:35		319251-002
FMW-11	W	Dec-02-08 13:45		319251-003
FMW-11	W	Dec-02-08 13:55		319251-004
FMW-10	W	Dec-02-08 16:00		319251-005
DUP-1	W	Dec-02-08 00:00		319251-006
Trip blank	W	Dec-02-08 00:00		319251-007

CASE NARRATIVE SUMMARY

Client Name: ***Winter Environmental***

Project Name: ***Fashion Care***

Project ID: *08096*
Work Order Number: *319251*

Report Date: *15-DEC-08*
Date Received: *03-DEC-08*

Project Manager's Notations:

1) The Inorganic Anions by EPA 300 analysis was performed by Xenco Laboratories - Houston facility.

David C. Fuller
Project Manager

Certificate of Analytical Results 319251

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-8**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-001**	Date Collected: **Dec-02-08 10:20**	Date Received: **Dec-03-08 08:50**

Analytical Method: Alkalinity by SM2320B Prep Method:

Date Analyzed: Dec-11-08 15:30 Analyst: 4154 Date Prep: Tech: 4154
Seq Number: 743411

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Alkalinity, Total (as CaCO3)		U	4.00	1.53	mg/L	U	1

Analytical Method: Anions by EPA 300 Prep Method:

Date Analyzed: Dec-09-08 21:58 Analyst: MAB Date Prep: Tech: MAB
Seq Number: 742986 SUB: E871002 Xenco Houston

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	8.30	1.00	0.071	mg/L		2
Sulfate	14808-79-8	1.18	1.00	0.086	mg/L		2

Analytical Method: Biochemical Oxygen Demand by SM 5210B Prep Method:

Date Analyzed: Dec-03-08 17:30 Analyst: 4154 Date Prep: Tech: 4154
Seq Number: 742733

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		17.7	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Dec-04-08 09:15 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 742403

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		86	10	5.3	mg/L		1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Dec-08-08 15:57 Analyst: 4150 Date Prep: Dec-08-08 11:53 Tech: ABA
Seq Number: 742753

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	U	0.100	0.021	mg/L	U	1

Project: Fashion Care

Version: 1.008

Certificate of Analytical Results 319251

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-8**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-001**	Date Collected: **Dec-02-08 10:20**	Date Received: **Dec-03-08 08:50**

Analytical Method: RCRA Mercury by SW-846 7470A Prep Method: SW7470P

Date Analyzed: Dec-04-08 18:16 Analyst: 4150 Date Prep: Dec-04-08 14:59 Tech: 4150
Seq Number: 742400

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Mercury	7439-97-6	U	0.0020	0.0001	mg/L	U	1

Analytical Method: RCRA Metals by SW-846 6010B Prep Method: SW3010A

Date Analyzed: Dec-08-08 14:17 Analyst: 4150 Date Prep: Dec-05-08 09:49 Tech: ABA
Seq Number: 742752

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.007	mg/L	U	1
Barium	7440-39-3	0.125	0.050	0.002	mg/L		1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.008	mg/L	U	1
Silver	7440-22-4	U	0.050	0.001	mg/L	U	1

Project: Fashion Care

Version: 1.008

Certificate of Analytical Results 319251

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-8**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-002**	Date Collected: **Dec-02-08 10:35**	Date Received: **Dec-03-08 08:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 00:51 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	U	1
1,4-Dioxane	123-91-1	U	20.0	8.84	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	U	1
2-Hexanone	591-78-6	31.7	2.00	0.320	ug/L		1
4-Methyl-2-pentanone (MIBK)	108-10-1	10.2	2.00	0.260	ug/L		1
Acetone	67-64-1	U	2.00	0.350	ug/L	U	1
Benzene	71-43-2	3070	50.0	8.00	ug/L	D	50
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	U	1
Carbon disulfide	75-15-0	U	1.00	0.260	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	2.36	1.00	0.210	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	U	1
Cyclohexane	110-82-7	180	1.00	0.150	ug/L		1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	U	1
Ethylbenzene	100-41-4	2720	50.0	9.50	ug/L	D	50
Isopropylbenzene	98-82-8	82.3	1.00	0.150	ug/L		1
m,p-Xylenes	179601-23-1	10100	100	25.5	ug/L	D	50
Methyl acetate	79-20-9	U	2.00	0.260	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1

Project: Fashion Care

Version: 1.008

Certificate of Analytical Results 319251

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-8**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-002**	Date Collected: **Dec-02-08 10:35**	Date Received: **Dec-03-08 08:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 00:51 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylcyclohexane	108-87-2	59.9	1.00	0.110	ug/L		1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	U	1
o-Xylene	95-47-6	4870	50.0	10.0	ug/L	D	50
Styrene	100-42-5	21.3	1.00	0.180	ug/L		1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	U	1
Toluene	108-88-3	7710	50.0	7.00	ug/L	D	50
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	U	1
Xylenes, Total	1330-20-7	14970	150		ug/L	D	50

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Fashion Care

Sample Id: **FMW-11** Matrix: **WATER** % Moisture:
Lab Sample Id: **319251-003** Date Collected: **Dec-02-08 13:45** Date Received: **Dec-03-08 08:50**

Analytical Method: Alkalinity by SM2320B Prep Method:

Date Analyzed: Dec-11-08 15:30 Analyst: 4154 Date Prep: Tech: 4154
Seq Number: 743411

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Alkalinity, Total (as CaCO3)		U	4.00	1.53	mg/L	U	1

Analytical Method: Anions by EPA 300 Prep Method:

Date Analyzed: Dec-09-08 22:22 Analyst: MAB Date Prep: Tech: MAB
Seq Number: 742986 SUB: E871002 Xenco Houston

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	4.87	1.00	0.071	mg/L		2
Sulfate	14808-79-8	0.862	1.00	0.086	mg/L	J	2

Analytical Method: Biochemical Oxygen Demand by SM 5210B Prep Method:

Date Analyzed: Dec-03-08 17:30 Analyst: 4154 Date Prep: Tech: 4154
Seq Number: 742733

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		U	2.00	1.50	mg/L	U	1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Dec-04-08 09:15 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 742403

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		U	10	5.3	mg/L	U	1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Dec-08-08 14:28 Analyst: 4150 Date Prep: Dec-08-08 11:53 Tech: ABA
Seq Number: 742753

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	U	0.100	0.021	mg/L	U	1

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Fashion Care

Sample Id: **FMW-11**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-003**	Date Collected: **Dec-02-08 13:45**	Date Received: **Dec-03-08 08:50**

Analytical Method: RCRA Mercury by SW-846 7470A Prep Method: SW7470P

Date Analyzed: Dec-04-08 18:19 Analyst: 4150 Date Prep: Dec-04-08 14:59 Tech: 4150
Seq Number: 742400

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Mercury	7439-97-6	U	0.0020	0.0001	mg/L	U	1

Analytical Method: RCRA Metals by SW-846 6010B Prep Method: SW3010A

Date Analyzed: Dec-08-08 14:28 Analyst: 4150 Date Prep: Dec-05-08 09:49 Tech: ABA
Seq Number: 742752

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.007	mg/L	U	1
Barium	7440-39-3	0.034	0.050	0.002	mg/L	J	1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.008	mg/L	U	1
Silver	7440-22-4	U	0.050	0.001	mg/L	U	1

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Fashion Care

Sample Id: **FMW-11**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-004**	Date Collected: **Dec-02-08 13:55**	Date Received: **Dec-03-08 08:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 01:20 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	U	1
1,2-Dichloroethane	107-06-2	1.52	1.00	0.180	ug/L		1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	U	1
1,4-Dioxane	123-91-1	U	20.0	8.84	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	U	1
Benzene	71-43-2	1.34	1.00	0.160	ug/L		1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	U	1
Carbon disulfide	75-15-0	U	1.00	0.260	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	2.88	1.00	0.210	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	U	1
Ethylbenzene	100-41-4	3.21	1.00	0.190	ug/L		1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	U	1
m,p-Xylenes	179601-23-1	13.8	2.00	0.510	ug/L		1
Methyl acetate	79-20-9	U	2.00	0.260	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	575	20.0	1.80	ug/L	D	10

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Fashion Care

Sample Id: **FMW-11**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-004**	Date Collected: **Dec-02-08 13:55**	Date Received: **Dec-03-08 08:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 01:20 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	U	1
o-Xylene	95-47-6	7.21	1.00	0.200	ug/L		1
Styrene	100-42-5	U	1.00	0.180	ug/L	U	1
Tetrachloroethene	127-18-4	39.4	1.00	0.160	ug/L		1
Toluene	108-88-3	5.59	1.00	0.140	ug/L		1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	U	1
Trichloroethene	79-01-6	5.73	1.00	0.190	ug/L		1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	U	1
Xylenes, Total	1330-20-7	21.01	3.00		ug/L		1

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Sample Id: **FMW-10**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-005**	Date Collected: **Dec-02-08 16:00**	Date Received: **Dec-03-08 08:50**

Analytical Method: Alkalinity by SM2320B Prep Method:

Date Analyzed: Dec-11-08 15:30 Analyst: 4154 Date Prep: Tech: 4154
Seq Number: 743411

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Alkalinity, Total (as CaCO3)		83.0	4.00	1.53	mg/L		1

Analytical Method: Anions by EPA 300 Prep Method:

Date Analyzed: Dec-09-08 22:46 Analyst: MAB Date Prep: Tech: MAB
Seq Number: 742986 SUB: E871002 Xenco Houston

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	5.22	1.00	0.071	mg/L		2
Sulfate	14808-79-8	0.116	1.00	0.086	mg/L	J	2

Analytical Method: Biochemical Oxygen Demand by SM 5210B Prep Method:

Date Analyzed: Dec-03-08 17:30 Analyst: 4154 Date Prep: Tech: 4154
Seq Number: 742733

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		3.55	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Dec-04-08 09:15 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 742403

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		9.5	10	5.3	mg/L	J	1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Dec-08-08 14:34 Analyst: 4150 Date Prep: Dec-08-08 11:53 Tech: ABA
Seq Number: 742753

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	19.1	0.100	0.021	mg/L		1

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Sample Id: **FMW-10**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-005**	Date Collected: **Dec-02-08 16:00**	Date Received: **Dec-03-08 08:50**

Analytical Method: RCRA Mercury by SW-846 7470A Prep Method: SW7470P

Date Analyzed: Dec-04-08 18:22 Analyst: 4150 Date Prep: Dec-04-08 14:59 Tech: 4150
Seq Number: 742400

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Mercury	7439-97-6	U	0.0020	0.0001	mg/L	U	1

Analytical Method: RCRA Metals by SW-846 6010B Prep Method: SW3010A

Date Analyzed: Dec-08-08 14:34 Analyst: 4150 Date Prep: Dec-05-08 09:49 Tech: ABA
Seq Number: 742752

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.012	0.010	0.007	mg/L		1
Barium	7440-39-3	0.093	0.050	0.002	mg/L		1
Cadmium	7440-43-9	0.002	0.005	0.001	mg/L	J	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.008	mg/L	U	1
Silver	7440-22-4	U	0.050	0.001	mg/L	U	1

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Fashion Care

Sample Id: **FMW-10** Matrix: **WATER** % Moisture:
Lab Sample Id: **319251-005** Date Collected: **Dec-02-08 16:00** Date Received: **Dec-03-08 08:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 01:49 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI
Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	U	1
1,4-Dioxane	123-91-1	U	20.0	8.84	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	U	1
Benzene	71-43-2	0.970	1.00	0.160	ug/L	J	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	U	1
Carbon disulfide	75-15-0	U	1.00	0.260	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	44.5	1.00	0.210	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	U	1
Ethylbenzene	100-41-4	0.730	1.00	0.190	ug/L	J	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	U	1
m,p-Xylenes	179601-23-1	2.88	2.00	0.510	ug/L		1
Methyl acetate	79-20-9	U	2.00	0.260	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	23.5	2.00	0.180	ug/L		1

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Fashion Care

Sample Id: **FMW-10**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-005**	Date Collected: **Dec-02-08 16:00**	Date Received: **Dec-03-08 08:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 01:49 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	U	1
o-Xylene	95-47-6	1.24	1.00	0.200	ug/L		1
Styrene	100-42-5	U	1.00	0.180	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	U	1
Toluene	108-88-3	1.40	1.00	0.140	ug/L		1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	U	1
Vinyl chloride	75-01-4	10.6	1.00	0.190	ug/L		1
Xylenes, Total	1330-20-7	4.12	3.00		ug/L		1

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Sample Id: **DUP-1**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-006**	Date Collected: **Dec-02-08 00:00**	Date Received: **Dec-03-08 08:50**

Analytical Method: RCRA Mercury by SW-846 7470A Prep Method: SW7470P

Date Analyzed: Dec-04-08 18:32 Analyst: 4150 Date Prep: Dec-04-08 14:59 Tech: 4150
Seq Number: 742400

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Mercury	7439-97-6	U	0.0020	0.0001	mg/L	U	1

Analytical Method: RCRA Metals by SW-846 6010B Prep Method: SW3010A

Date Analyzed: Dec-08-08 14:36 Analyst: 4150 Date Prep: Dec-05-08 09:49 Tech: ABA
Seq Number: 742752

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	0.008	0.010	0.007	mg/L	J	1
Barium	7440-39-3	0.093	0.050	0.002	mg/L		1
Cadmium	7440-43-9	0.002	0.005	0.001	mg/L	J	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Lead	7439-92-1	0.003	0.010	0.002	mg/L	J	1
Selenium	7782-49-2	U	0.010	0.008	mg/L	U	1
Silver	7440-22-4	U	0.050	0.001	mg/L	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **DUP-1** Matrix: **WATER** % Moisture:
Lab Sample Id: **319251-006** Date Collected: **Dec-02-08 00:00** Date Received: **Dec-03-08 08:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 02:18 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI
Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	U	1
1,4-Dioxane	123-91-1	U	20.0	8.84	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	U	1
Benzene	71-43-2	0.790	1.00	0.160	ug/L	J	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	U	1
Carbon disulfide	75-15-0	U	1.00	0.260	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	44.3	1.00	0.210	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	U	1
m,p-Xylenes	179601-23-1	1.45	2.00	0.510	ug/L	J	1
Methyl acetate	79-20-9	U	2.00	0.260	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	22.0	2.00	0.180	ug/L		1

Project: Fashion Care

Version: 1.008

Certificate of Analytical Results 319251

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **DUP-1**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-006**	Date Collected: **Dec-02-08 00:00**	Date Received: **Dec-03-08 08:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 02:18 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	U	1
o-Xylene	95-47-6	0.590	1.00	0.200	ug/L	J	1
Styrene	100-42-5	U	1.00	0.180	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	U	1
Toluene	108-88-3	0.770	1.00	0.140	ug/L	J	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	U	1
Vinyl chloride	75-01-4	10.6	1.00	0.190	ug/L		1
Xylenes, Total	1330-20-7	2.04	3.00		ug/L		1

Project: Fashion Care

Version: 1.008

Certificate of Analytical Results 319251

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **Trip blank**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-007**	Date Collected: **Dec-02-08 00:00**	Date Received: **Dec-03-08 08:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-08-08 21:59 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	U	1
1,4-Dioxane	123-91-1	U	20.0	8.84	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	U	1
Carbon disulfide	75-15-0	U	1.00	0.260	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
Methyl acetate	79-20-9	U	2.00	0.260	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1

Project: Fashion Care

Version: 1.008

Certificate of Analytical Results 319251

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **Trip blank**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319251-007**	Date Collected: **Dec-02-08 00:00**	Date Received: **Dec-03-08 08:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-08-08 21:59 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	U	1
Methylene chloride	75-09-2	14.5	1.00	0.420	ug/L		1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	U	1
Xylenes, Total	1330-20-7	U	3.00		ug/L	U	1

Project: Fashion Care

Version: 1.008

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 319251, **Project ID:** 08096

Lab Batch #: 742853 **Sample:** 318986-029 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	55	50.00	110	53-159	
4-Bromofluorobenzene	47	50.00	94	30-186	
Toluene-D8	50	50.00	100	70-130	

Lab Batch #: 742853 **Sample:** 318986-029 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54	50.00	108	53-159	
4-Bromofluorobenzene	48	50.00	96	30-186	
Toluene-D8	51	50.00	102	70-130	

Lab Batch #: 742853 **Sample:** 319251-002 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	60.79	50.00	122	53-159	
4-Bromofluorobenzene	45.87	50.00	92	30-186	
Toluene-D8	50.63	50.00	101	70-130	

Lab Batch #: 742853 **Sample:** 319251-004 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58.13	50.00	116	53-159	
4-Bromofluorobenzene	46.22	50.00	92	30-186	
Toluene-D8	50.83	50.00	102	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 319251, **Project ID:** 08096

Lab Batch #: 742853 **Sample:** 319251-005 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58.48	50.00	117	53-159	
4-Bromofluorobenzene	45.78	50.00	92	30-186	
Toluene-D8	50.76	50.00	102	70-130	

Lab Batch #: 742853 **Sample:** 319251-006 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58.70	50.00	117	53-159	
4-Bromofluorobenzene	46.12	50.00	92	30-186	
Toluene-D8	50.99	50.00	102	70-130	

Lab Batch #: 742853 **Sample:** 319251-007 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	59.04	50.00	118	53-159	
4-Bromofluorobenzene	46.63	50.00	93	30-186	
Toluene-D8	49.96	50.00	100	70-130	

Lab Batch #: 742853 **Sample:** 520774-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54	50.00	108	53-159	
4-Bromofluorobenzene	47	50.00	94	30-186	
Toluene-D8	51	50.00	102	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 319251, **Project ID:** 08096

Lab Batch #: 742853 **Sample:** 520774-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	59.12	50.00	118	53-159	
4-Bromofluorobenzene	46.21	50.00	92	30-186	
Toluene-D8	50.28	50.00	100	77-124	

Lab Batch #: 743155 **Sample:** 319251-002 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53.98	50.00	108	53-159	
4-Bromofluorobenzene	53.73	50.00	107	30-186	
Toluene-D8	53.75	50.00	108	70-130	

Lab Batch #: 743155 **Sample:** 319251-004 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53.43	50.00	107	53-159	
4-Bromofluorobenzene	54.87	50.00	110	30-186	
Toluene-D8	53.37	50.00	107	70-130	

Lab Batch #: 743155 **Sample:** 319341-001 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54.12	50.00	108	53-159	
4-Bromofluorobenzene	82.10	50.00	164	30-186	
Toluene-D8	56.49	50.00	113	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 319251, **Project ID:** 08096

Lab Batch #: 743155 **Sample:** 319341-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52.76	50.00	106	53-159	
4-Bromofluorobenzene	50.90	50.00	102	30-186	
Toluene-D8	50.29	50.00	101	70-130	

Lab Batch #: 743155 **Sample:** 520920-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51.75	50.00	104	53-159	
4-Bromofluorobenzene	54.16	50.00	108	30-186	
Toluene-D8	53.30	50.00	107	77-124	

Lab Batch #: 743155 **Sample:** 520920-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54.58	50.00	109	53-159	
4-Bromofluorobenzene	53.89	50.00	108	30-186	
Toluene-D8	52.71	50.00	105	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 319251 **Project ID:** 08096

Lab Batch #: 742403 **Sample:** 742403-1-BKS **Matrix:** Water
Date Analyzed: 12/04/2008 **Date Prepared:** 12/04/2008 **Analyst:**
Reporting Units: mg/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Chemical Oxygen Demand by SM 5220D Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
COD - Chemical Oxygen Demand	<10	200	210	105	71-128	

Lab Batch #: 742986 **Sample:** 742986-1-BKS **Matrix:** Water
Date Analyzed: 12/09/2008 **Date Prepared:** 12/09/2008 **Analyst:** MAB
Reporting Units: mg/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	<0.500	5.00	4.94	99	80-120	
Sulfate	<0.500	5.00	4.84	97	80-120	

Lab Batch #: 742853 **Sample:** 520774-1-BKS **Matrix:** Water
Date Analyzed: 12/08/2008 **Date Prepared:** 12/08/2008 **Analyst:** ANI
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

TCL VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.00	50	51	102	70-130	
Benzene	<1.00	50	49	98	80-120	
Chlorobenzene	<1.00	50	52	104	80-120	
Toluene	<1.00	50	50	100	75-120	
Trichloroethene	<1.00	50	47	94	70-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 319251 **Project ID:** 08096

Lab Batch #: 743155 **Sample:** 520920-1-BKS **Matrix:** Water

Date Analyzed: 12/10/2008 **Date Prepared:** 12/10/2008 **Analyst:** 4124

Reporting Units: ug/L **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.00	50.0	43.1	86	70-130	
Benzene	<1.00	50.0	50.8	102	80-120	
Chlorobenzene	<1.00	50.0	51.7	103	80-120	
Toluene	<1.00	50.0	52.5	105	75-120	
Trichloroethene	<1.00	50.0	53.0	106	70-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 319251 **Project ID:** 08096

Analyst: 4154 **Date Prepared:** 12/11/2008 **Date Analyzed:** 12/11/2008

Lab Batch ID: 743411 **Sample:** 743411-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Alkalinity by SM2320B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Alkalinity, Total (as CaCO3)	<4.00	62.5	63.0	101	62.5	63.0	101	0	80-120	20	

Analyst: 4154 **Date Prepared:** 12/03/2008 **Date Analyzed:** 12/03/2008

Lab Batch ID: 742733 **Sample:** 742733-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Biochemical Oxygen Demand by SM 5210B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	<2.00	200	201	101	200	196	98	3	70-120	20	

Analyst: 4150 **Date Prepared:** 12/08/2008 **Date Analyzed:** 12/08/2008

Lab Batch ID: 742753 **Sample:** 520697-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	9.00	9.51	106	9	9.55	106	0	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 319251 **Project ID:** 08096

Analyst: 4150 **Date Prepared:** 12/04/2008 **Date Analyzed:** 12/04/2008

Lab Batch ID: 742400 **Sample:** 520524-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

RCRA Mercury by SW-846 7470A Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	<0.0020	0.0030	0.0029	97	0.003	0.0030	100	3	75-125	20	

Analyst: 4150 **Date Prepared:** 12/05/2008 **Date Analyzed:** 12/08/2008

Lab Batch ID: 742752 **Sample:** 520570-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

RCRA Metals by SW-846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.010	1.00	0.917	92	1	0.916	92	0	75-125	20	
Barium	<0.050	1.00	0.906	91	1	0.911	91	1	75-125	20	
Cadmium	<0.005	1.00	0.916	92	1	0.921	92	1	75-125	20	
Chromium	<0.050	1.00	0.921	92	1	0.925	93	0	75-125	20	
Lead	<0.010	1.00	0.903	90	1	0.908	91	1	75-125	20	
Selenium	<0.010	1.00	0.918	92	1	0.919	92	0	75-125	20	
Silver	<0.050	1.00	0.887	89	1	0.892	89	1	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 319251 **Project ID:** 08096

Lab Batch ID: 742403 **QC- Sample ID:** 319327-001 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 12/04/2008 **Date Prepared:** 12/04/2008 **Analyst:** SBA
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chemical Oxygen Demand by SM 5220D Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	190	200	380	95	200	380	95	0	71-128	20	

Lab Batch ID: 742753 **QC- Sample ID:** 319251-001 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 12/08/2008 **Date Prepared:** 12/08/2008 **Analyst:** 4150
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	9.00	10.5	117	9.00	10.6	118	1	75-125	20	

Lab Batch ID: 742986 **QC- Sample ID:** 318390-015 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 12/09/2008 **Date Prepared:** 12/09/2008 **Analyst:** MAB
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	4.06	40.0	14.5	26	40.0	14.5	26	0	80-120	20	X
Sulfate	1.56	40.0	11.2	24	40.0	11.3	24	0	80-120	20	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 319251 **Project ID:** 08096

Lab Batch ID: 742400 **QC- Sample ID:** 319137-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 12/04/2008 **Date Prepared:** 12/04/2008 **Analyst:** 4150

Reporting Units: ug/L

RCRA Mercury by SW-846 7470A Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	<2.000	3.000	0.5203	17	3.000	0.5207	17	0	75-125	20	X

Lab Batch ID: 742752 **QC- Sample ID:** 319251-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 12/08/2008 **Date Prepared:** 12/05/2008 **Analyst:** 4150

Reporting Units: mg/L

RCRA Metals by SW-846 6010B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.010	1.00	0.923	92	1.00	0.920	92	0	75-125	20	
Barium	0.125	1.00	1.02	90	1.00	1.02	90	0	75-125	20	
Cadmium	<0.005	1.00	0.922	92	1.00	0.918	92	0	75-125	20	
Chromium	<0.050	1.00	0.928	93	1.00	0.921	92	1	75-125	20	
Lead	<0.010	1.00	0.909	91	1.00	0.903	90	1	75-125	20	
Selenium	<0.010	1.00	0.927	93	1.00	0.920	92	1	75-125	20	
Silver	<0.050	1.00	0.891	89	1.00	0.883	88	1	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 319251 **Project ID:** 08096

Lab Batch ID: 742853 **QC- Sample ID:** 318986-029 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 12/09/2008 **Date Prepared:** 12/08/2008 **Analyst:** ANI

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<5.00	50.0	49.0	98	50.0	48.0	96	2	70-130	20	
Benzene	<5.00	50.0	47.0	94	50.0	46.0	92	2	80-120	20	
Chlorobenzene	<5.00	50.0	50.0	100	50.0	48.0	96	4	80-120	20	
Toluene	<5.00	50.0	48.0	96	50.0	47.0	94	2	75-120	20	
Trichloroethene	<5.00	50.0	44.0	88	50.0	43.0	86	2	70-125	20	

Lab Batch ID: 743155 **QC- Sample ID:** 319341-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 12/10/2008 **Date Prepared:** 12/10/2008 **Analyst:** 4124

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<1.00	50.0	40.9	82	50.0	38.9	78	5	70-130	20	
Benzene	<1.00	50.0	50.1	100	50.0	47.9	96	4	80-120	20	
Chlorobenzene	<1.00	50.0	47.8	96	50.0	48.4	97	1	80-120	20	
Toluene	<1.00	50.0	64.6	129	50.0	48.0	96	29	75-120	20	XF
Trichloroethene	<1.00	50.0	51.0	102	50.0	48.0	96	6	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 319251

Lab Batch #: 743411 **Project ID:** 08096
Date Analyzed: 12/11/2008 **Date Prepared:** 12/11/2008 **Analyst:** 4154
QC- Sample ID: 318760-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Alkalinity by SM2320B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Alkalinity, Total (as CaCO3)	313	314	0	20	

Lab Batch #: 742986
Date Analyzed: 12/09/2008 **Date Prepared:** 12/09/2008 **Analyst:** MAB
QC- Sample ID: 318390-015 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Anions by EPA 300 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	4.06	4.04	0	20	
Sulfate	1.56	1.55	1	20	

Lab Batch #: 742733
Date Analyzed: 12/03/2008 **Date Prepared:** 12/03/2008 **Analyst:** 4154
QC- Sample ID: 319331-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Biochemical Oxygen Demand by SM 5210B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	2630	2660	1	20	

Lab Batch #: 742403
Date Analyzed: 12/04/2008 **Date Prepared:** 12/04/2008 **Analyst:**
QC- Sample ID: 319327-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Chemical Oxygen Demand by SM 5220D Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	190	180	5	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 319251

Lab Batch #: 742753 **Project ID:** 08096
Date Analyzed: 12/08/2008 **Date Prepared:** 12/08/2008 **Analyst:** 4150
QC- Sample ID: 319251-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Dissolved Metals by SW-846 6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	<0.100	NC	20	

Lab Batch #: 742400
Date Analyzed: 12/04/2008 **Date Prepared:** 12/04/2008 **Analyst:** 4150
QC- Sample ID: 319137-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: ug/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

RCRA Mercury by SW-846 7470A Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Mercury	<2.000	<2.000	NC	20	

Lab Batch #: 742752
Date Analyzed: 12/08/2008 **Date Prepared:** 12/05/2008 **Analyst:** 4150
QC- Sample ID: 319251-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

RCRA Metals by SW-846 6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Arsenic	<0.010	<0.010	NC	20	
Barium	0.125	0.124	1	20	
Cadmium	<0.005	<0.005	NC	20	
Chromium	<0.050	<0.050	NC	20	
Lead	<0.010	0.002	NC	20	
Selenium	<0.010	<0.010	NC	20	
Silver	<0.050	<0.050	NC	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

XENCO Laboratories

☐ 5757 N.W. 158th Street, Miami Lakes, Fl 33014 305-823-8500
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☐ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800
☐ Philadephia/New Jersey 610-955-5649

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 223370

Company-City: Winter Environmental
Phone: 404 588 3300
Lab Only: WO# 319251
Proj Name-Location: Fashion Care ☐ Previously done at XENCO
Project ID: 08096
TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.
Proj State: AL, FL ,GA, LA, MS, NC, NJ, PA, SC, TN, TX , UT Other
Proj. Manager (PM): Len Diprima
Fax Results to ☐ PM or **e-mail to:** ldiprima@winter-environmental.com **Fax No:**
Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☒ Invoice must have a P.O Bill to:
Quote/Pricing: **P.O No:** 08096 ☐ Call for P.O.
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA
QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)
LPST No.:
Sampler Name Greg Muse Signature

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs BTEX-MTBE VOHs VOAs PP TCL Appdx 1 Appdx 2	Method: 8260 8021 624 524	PAHs: 8270 8100 8310 8270_SIM	TRPH by FL PRO DRO GRO MA EPH MA VPH	SVOCs: 8270 625 - (BN&AE) (TCL) (PP) (Appdx 2)	Pest. (8081 / 608) PCBs (8082 / 608) Herb. (8151 / 615)	EDB / DBCP (8011 / 504)	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	Metals Methods: 6020 / 6010 / 200.8 / 7470 / 7471	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	FL Preburn: Virgin Non-Virgin	Dissolved Fe	BOD, Anions, Alk	COD				TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Remarks: Sample Clean-ups are pre-approved as needed			Rcv by: Date Addn: From:
1	FMW-8	12/2/08	1020		W		X	4		P	HCl	X							X				X	X	X				X						1
2	FMW-8	12/2/08	1035		W		X	2		C		X																	X						2
3	FMW-11	12/2/08	1345		W		X	4		P	HCl	X							X				X	X	X				X						3
4	FMW-11	12/2/08	1355		W		X	2		C		X																	X						4
5	FMW-10	12/2/08	1600		W		X	4		P	HCl	X							X				X	X	X				X						5
6	FMW-10	12/2/08	1600		W		X	2		C		X																	X						6
7	DUP-1	12/2/08			W		X	6		P,C		X							X										X						7
8	TRIP BLANK				W			2		C		X																	X						8
9																																			9
10																																			10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) GTM	12/3/08 8:50	2) Dijana Piljak DP	12/3/08 8:50
2) 3)		4)	
3) 5)		6)	

Total Containers per COC: Cooler Temp: 4°C

All XENCO Standard Terms and Conditions Apply.
Rush Charges are Pre-Approved upon Requesting them.

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O) _____
Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tedlar Bag (B), Wipe (W), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Other (O) _____
Matrix: Air (A), Product (P), Solid(S), Water (W)

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Winter Env.

Date/ Time: 12/03/08 0850

Lab ID # : 319257

Initials: MH

Sample Receipt Checklist

#1	Temperature of cooler?				4°c
#2	Shipping container in good condition?	YES	No	None	
#3	Samples received on ice?	YES	No	N/A	Blue/Water
#4	Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	N/A	
#6	Chain of Custody present?	YES	No		
#7	Sample instructions complete of Chain of Custody?	YES	No		
#8	Any missing/extra samples?	Yes	NO		
#9	Chain of Custody signed when relinquished/ received?	YES	No		
#10	Chain of Custody agrees with sample label(s)?	YES	No		
#11	Container label(s) legible and intact?	YES	No		
#12	Sample matrix/ properties agree with Chain of Custody?	YES	No		
#13	Samples in proper container/ bottle?	YES	No		
#14	Samples properly preserved?	YES	No	N/A	
#15	Sample container(s) intact?	YES	No		
#16	Sufficient sample amount for indicated test(s)?	YES	No		
#17	All samples received within sufficient hold time?	YES	No		
#18	Subcontract of sample(s)?	Yes	NO		
#19	VOC samples have zero headspace?	YES	No	N/A	

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 319343

for

Winter Environmental

Project Manager: Len Diprima

Fashion Care

08096

17-DEC-08

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Texas certification numbers:
Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

17-DEC-08

Project Manager: **Len Diprima**
Winter Environmental
3350 Green Pointe Parkway
Norcross, GA 30092

Reference: XENCO Report No: **319343**
Fashion Care
Project Address: GA

Len Diprima:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 319343. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 319343 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

David C. Fuller
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 319343

Winter Environmental, Norcross, GA

Fashion Care

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FMW-9	W	Dec-03-08 13:15		319343-001
FMW-7	W	Dec-03-08 11:15		319343-002
Trip Blank	W	Dec-03-08 00:00		319343-003
T-1	W	Dec-03-08 14:00		319343-004

CASE NARRATIVE SUMMARY

Client Name: ***Winter Environmental***

Project Name: ***Fashion Care***

Project ID: *08096*
Work Order Number: *319343*

Report Date: *17-DEC-08*
Date Received: *03-DEC-08*

Project Manager's Notations:

1) The Inorganic Anions by EPA 300 analysis was performed by Xenco Laboratories - Houston facility.

David C. Fuller
Project Manager

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **FMW-9** Matrix: **WATER** % Moisture:
Lab Sample Id: **319343-001** Date Collected: **Dec-03-08 13:15** Date Received: **Dec-03-08 15:50**

Analytical Method: Alkalinity by SM2320B Prep Method:

Date Analyzed: Dec-11-08 15:30 Analyst: 4154 Date Prep: Tech: 4154
Seq Number: 743411

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Alkalinity, Total (as CaCO3)		55.0	4.00	1.53	mg/L		1

Analytical Method: Anions by EPA 300 Prep Method:

Date Analyzed: Dec-09-08 23:10 Analyst: MAB Date Prep: Tech: MAB
Seq Number: 742986 SUB: E871002 Xenco Houston

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	7.45	1.00	0.071	mg/L		2
Sulfate	14808-79-8	3.65	1.00	0.086	mg/L		2

Analytical Method: Biochemical Oxygen Demand by SM 5210B Prep Method:

Date Analyzed: Dec-03-08 17:30 Analyst: 4154 Date Prep: Tech: 4154
Seq Number: 742733

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		U	2.00	1.50	mg/L	U	1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Dec-04-08 09:15 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 742403

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		U	10	5.3	mg/L	U	1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Dec-08-08 14:39 Analyst: 4150 Date Prep: Dec-08-08 11:53 Tech: ABA
Seq Number: 742753

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	0.109	0.100	0.021	mg/L		1

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Sample Id: **FMW-9**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319343-001**	Date Collected: **Dec-03-08 13:15**	Date Received: **Dec-03-08 15:50**

Analytical Method: RCRA Mercury by SW-846 7470A Prep Method: SW7470P

Date Analyzed: Dec-04-08 18:36 Analyst: 4150 Date Prep: Dec-04-08 14:59 Tech: 4150
Seq Number: 742400

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Mercury	7439-97-6	U	0.0020	0.0001	mg/L	U	1

Analytical Method: RCRA Metals by SW-846 6010B Prep Method: SW3010A

Date Analyzed: Dec-08-08 14:39 Analyst: 4150 Date Prep: Dec-05-08 09:49 Tech: ABA
Seq Number: 742752

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.007	mg/L	U	1
Barium	7440-39-3	0.023	0.050	0.002	mg/L	J	1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	0.002	0.050	0.001	mg/L	J	1
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.008	mg/L	U	1
Silver	7440-22-4	U	0.050	0.001	mg/L	U	1

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Fashion Care

Sample Id: **FMW-9** Matrix: **WATER** % Moisture:
Lab Sample Id: **319343-001** Date Collected: **Dec-03-08 13:15** Date Received: **Dec-03-08 15:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 02:46 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI
Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	U	1
1,2-Dichloroethane	107-06-2	2.15	1.00	0.180	ug/L		1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	U	1
1,4-Dioxane	123-91-1	U	20.0	8.84	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	U	1
Benzene	71-43-2	0.650	1.00	0.160	ug/L	J	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	U	1
Carbon disulfide	75-15-0	U	1.00	0.260	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	53.4	1.00	0.210	ug/L		1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	U	1
Ethylbenzene	100-41-4	0.520	1.00	0.190	ug/L	J	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	U	1
m,p-Xylenes	179601-23-1	2.01	2.00	0.510	ug/L		1
Methyl acetate	79-20-9	U	2.00	0.260	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	615	20.0	1.80	ug/L	D	10

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Sample Id: **FMW-9**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319343-001**	Date Collected: **Dec-03-08 13:15**	Date Received: **Dec-03-08 15:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 02:46 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	U	1
o-Xylene	95-47-6	0.840	1.00	0.200	ug/L	J	1
Styrene	100-42-5	U	1.00	0.180	ug/L	U	1
Tetrachloroethene	127-18-4	922	10.0	1.60	ug/L	D	10
Toluene	108-88-3	1.96	1.00	0.140	ug/L		1
trans-1,2-Dichloroethene	156-60-5	0.860	1.00	0.210	ug/L	J	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	U	1
Trichloroethene	79-01-6	26.2	1.00	0.190	ug/L		1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	U	1
Xylenes, Total	1330-20-7	2.85	3.00		ug/L		1

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Sample Id: **FMW-7** Matrix: **WATER** % Moisture:
Lab Sample Id: **319343-002** Date Collected: **Dec-03-08 11:15** Date Received: **Dec-03-08 15:50**

Analytical Method: Alkalinity by SM2320B Prep Method:

Date Analyzed: Dec-11-08 15:30 Analyst: 4154 Date Prep: Tech: 4154
Seq Number: 743411

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Alkalinity, Total (as CaCO3)		79.0	4.00	1.53	mg/L		1

Analytical Method: Anions by EPA 300 Prep Method:

Date Analyzed: Dec-09-08 23:34 Analyst: MAB Date Prep: Tech: MAB
Seq Number: 742986 SUB: E871002 Xenco Houston

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chloride	16887-00-6	5.80	1.00	0.071	mg/L		2
Sulfate	14808-79-8	1.62	1.00	0.086	mg/L		2

Analytical Method: Biochemical Oxygen Demand by SM 5210B Prep Method:

Date Analyzed: Dec-03-08 17:30 Analyst: 4154 Date Prep: Tech: 4154
Seq Number: 742733

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Biochemical Oxygen Demand, 5 day		2.31	2.00	1.50	mg/L		1

Analytical Method: Chemical Oxygen Demand by SM 5220D Prep Method:

Date Analyzed: Dec-04-08 09:15 Analyst: SBA Date Prep: Tech: SBA
Seq Number: 742403

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
COD - Chemical Oxygen Demand		U	10	5.3	mg/L	U	1

Analytical Method: Dissolved Metals by SW-846 6010B Prep Method: SW3005A

Date Analyzed: Dec-08-08 14:41 Analyst: 4150 Date Prep: Dec-08-08 11:53 Tech: ABA
Seq Number: 742753

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	0.065	0.100	0.021	mg/L	J	1

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Sample Id: **FMW-7**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319343-002**	Date Collected: **Dec-03-08 11:15**	Date Received: **Dec-03-08 15:50**

Analytical Method: RCRA Mercury by SW-846 7470A Prep Method: SW7470P

Date Analyzed: Dec-04-08 18:39 Analyst: 4150 Date Prep: Dec-04-08 14:59 Tech: 4150
Seq Number: 742400

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Mercury	7439-97-6	U	0.0020	0.0001	mg/L	U	1

Analytical Method: RCRA Metals by SW-846 6010B Prep Method: SW3010A

Date Analyzed: Dec-08-08 14:41 Analyst: 4150 Date Prep: Dec-05-08 09:49 Tech: ABA
Seq Number: 742752

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Arsenic	7440-38-2	U	0.010	0.007	mg/L	U	1
Barium	7440-39-3	0.059	0.050	0.002	mg/L		1
Cadmium	7440-43-9	U	0.005	0.001	mg/L	U	1
Chromium	7440-47-3	U	0.050	0.001	mg/L	U	1
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1
Selenium	7782-49-2	U	0.010	0.008	mg/L	U	1
Silver	7440-22-4	U	0.050	0.001	mg/L	U	1

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Sample Id: **FMW-7**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319343-002**	Date Collected: **Dec-03-08 11:15**	Date Received: **Dec-03-08 15:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-10-08 15:08 Analyst: 4124 Date Prep: Dec-10-08 08:57 Tech: 4124

Seq Number: 743155

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	U	1
1,4-Dioxane	123-91-1	U	20.0	8.84	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	U	1
Carbon disulfide	75-15-0	U	1.00	0.260	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
Methyl acetate	79-20-9	U	2.00	0.260	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1

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Sample Id: **FMW-7**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319343-002**	Date Collected: **Dec-03-08 11:15**	Date Received: **Dec-03-08 15:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-10-08 15:08 Analyst: 4124 Date Prep: Dec-10-08 08:57 Tech: 4124

Seq Number: 743155

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	U	1
Xylenes, Total	1330-20-7	U	3.00		ug/L	U	1

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Sample Id: **Trip Blank**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319343-003**	Date Collected: **Dec-03-08 00:00**	Date Received: **Dec-03-08 15:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 03:44 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	U	1
1,4-Dioxane	123-91-1	U	20.0	8.84	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	U	1
Carbon disulfide	75-15-0	U	1.00	0.260	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
Methyl acetate	79-20-9	U	2.00	0.260	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **Trip Blank**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319343-003**	Date Collected: **Dec-03-08 00:00**	Date Received: **Dec-03-08 15:50**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 03:44 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	U	1
Methylene chloride	75-09-2	13.7	1.00	0.420	ug/L		1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	U	1
Xylenes, Total	1330-20-7	U	3.00		ug/L	U	1

Project: Fashion Care

Version: 1.010

Certificate of Analytical Results 319343

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **T-1**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **319343-004**	Date Collected: **Dec-03-08 14:00**	Date Received: **Dec-03-08 15:50**

Analytical Method: TCLP VOCs by SW1311/8260B Prep Method: SW5030B

Date Analyzed: Dec-09-08 04:13 Analyst: ANI Date Prep: Dec-08-08 18:12 Tech: ANI

Seq Number: 742853

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethene	75-35-4	U	0.0050	0.0010	mg/L	U	1
1,2-Dichloroethane	107-06-2	U	0.0050	0.0008	mg/L	U	1
2-Butanone (MEK)	78-93-3	U	0.050	0.0013	mg/L	U	1
Benzene	71-43-2	0.17	0.0050	0.0007	mg/L		1
Carbon tetrachloride	56-23-5	U	0.0050	0.0009	mg/L	U	1
Chlorobenzene	108-90-7	U	0.0050	0.0006	mg/L	U	1
Chloroform	67-66-3	0.0024	0.0050	0.0014	mg/L	J	1
Tetrachloroethene	127-18-4	0.015	0.0050	0.0018	mg/L		1
Trichloroethene	79-01-6	0.0015	0.0050	0.0007	mg/L	J	1
Vinyl chloride	75-01-4	0.0013	0.0020	0.0011	mg/L	J	1

Project: Fashion Care

Version: 1.010

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 319343, **Project ID:** 08096

Lab Batch #: 742853 **Sample:** 319343-001 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58.96	50.00	118	53-159	
4-Bromofluorobenzene	46.88	50.00	94	30-186	
Toluene-D8	50.39	50.00	101	70-130	

Lab Batch #: 742853 **Sample:** 319343-003 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58.92	50.00	118	53-159	
4-Bromofluorobenzene	46.33	50.00	93	30-186	
Toluene-D8	50.74	50.00	101	70-130	

Lab Batch #: 742853 **Sample:** 318986-029 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	55	50.00	110	53-159	
4-Bromofluorobenzene	47	50.00	94	30-186	
Toluene-D8	50	50.00	100	70-130	

Lab Batch #: 742853 **Sample:** 318986-029 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54	50	108	53-159	
4-Bromofluorobenzene	48	50.00	96	30-186	
Toluene-D8	51	50	102	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 319343, **Project ID:** 08096

Lab Batch #: 742853 **Sample:** 520774-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54	50	108	53-159	
4-Bromofluorobenzene	47	50	94	30-186	
Toluene-D8	51	50.00	102	77-124	

Lab Batch #: 742853 **Sample:** 520774-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	59	50	118	53-159	
4-Bromofluorobenzene	46.21	50.00	92	30-186	
Toluene-D8	50	50	100	77-124	

Lab Batch #: 743155 **Sample:** 319343-001 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53.35	50.00	107	53-159	
4-Bromofluorobenzene	53.68	50.00	107	30-186	
Toluene-D8	53.07	50.00	106	70-130	

Lab Batch #: 743155 **Sample:** 319343-002 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCL VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	57.33	50.00	115	53-159	
4-Bromofluorobenzene	54.46	50.00	109	30-186	
Toluene-D8	52.83	50.00	106	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 319343, **Project ID:** 08096

Lab Batch #: 743155 **Sample:** 319341-001 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54.12	50.00	108	53-159	
4-Bromofluorobenzene	82.10	50.00	164	30-186	
Toluene-D8	56.49	50.00	113	70-130	

Lab Batch #: 743155 **Sample:** 319341-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52.76	50	106	53-159	
4-Bromofluorobenzene	50.90	50.00	102	30-186	
Toluene-D8	50.29	50	101	70-130	

Lab Batch #: 743155 **Sample:** 520920-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51.75	50	104	53-159	
4-Bromofluorobenzene	54.16	50.00	108	30-186	
Toluene-D8	53.30	50.00	107	77-124	

Lab Batch #: 743155 **Sample:** 520920-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54.58	50.00	109	53-159	
4-Bromofluorobenzene	53.89	50.00	108	30-186	
Toluene-D8	52.71	50.00	105	77-124	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 319343, **Project ID:** 08096

Lab Batch #: 742853 **Sample:** 319343-004 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58	50	116	53-159	
4-Bromofluorobenzene	46	50	92	30-186	
Toluene-D8	51	50	102	70-130	

Lab Batch #: 743155 **Sample:** 319343-004 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

TCLP VOCs by SW1311/8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	53-159	
4-Bromofluorobenzene	55	50	110	30-186	
Toluene-D8	53	50	106	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 319343 **Project ID:** 08096

Lab Batch #: 742403 **Sample:** 742403-1-BKS **Matrix:** Water
Date Analyzed: 12/04/2008 **Date Prepared:** 12/04/2008 **Analyst:**
Reporting Units: mg/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Chemical Oxygen Demand by SM 5220D Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
COD - Chemical Oxygen Demand	<10	200	210	105	71-128	

Lab Batch #: 742986 **Sample:** 742986-1-BKS **Matrix:** Water
Date Analyzed: 12/09/2008 **Date Prepared:** 12/09/2008 **Analyst:** MAB
Reporting Units: mg/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	<0.500	5.00	4.94	99	80-120	
Sulfate	<0.500	5.00	4.84	97	80-120	

Lab Batch #: 742853 **Sample:** 520774-1-BKS **Matrix:** Water
Date Analyzed: 12/08/2008 **Date Prepared:** 12/08/2008 **Analyst:** ANI
Reporting Units: mg/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

TCLP VOCs by SW1311/8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<0.0050	0.050	0.051	102	70-130	
Chlorobenzene	<0.0050	0.050	0.052	104	80-120	
Trichloroethene	0.0000	0.050	0.047	94	70-125	

Lab Batch #: 742853 **Sample:** 520774-1-BKS **Matrix:** Water
Date Analyzed: 12/08/2008 **Date Prepared:** 12/08/2008 **Analyst:** ANI
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

TCLP VOCs by SW1311/8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Benzene	0.0000	50	49	98	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 319343 **Project ID:** 08096

Lab Batch #: 743155 **Sample:** 520920-1-BKS **Matrix:** Water

Date Analyzed: 12/10/2008 **Date Prepared:** 12/10/2008 **Analyst:** 4124

Reporting Units: ug/L **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

TCLP VOCs by SW1311/8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.00	50.0	43.1	86	70-130	
Benzene	0.000	50.0	51.0	102	80-120	
Chlorobenzene	<5.0	50.0	52.0	104	80-120	
Toluene	0.000	50.0	52.5	105	75-120	
Trichloroethylene	<5.0	50.0	53.0	106	70-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 319343 **Project ID:** 08096

Analyst: 4154 **Date Prepared:** 12/11/2008 **Date Analyzed:** 12/11/2008

Lab Batch ID: 743411 **Sample:** 743411-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Alkalinity by SM2320B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Alkalinity, Total (as CaCO3)	<4.00	62.5	63.0	101	62.5	63.0	101	0	80-120	20	

Analyst: 4154 **Date Prepared:** 12/03/2008 **Date Analyzed:** 12/03/2008

Lab Batch ID: 742733 **Sample:** 742733-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Biochemical Oxygen Demand by SM 5210B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	<2.00	200	201	101	200	196	98	3	70-120	20	

Analyst: 4150 **Date Prepared:** 12/08/2008 **Date Analyzed:** 12/08/2008

Lab Batch ID: 742753 **Sample:** 520697-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	9.00	9.51	106	9	9.55	106	0	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Fashion Care

Work Order #: 319343 **Project ID:** 08096

Analyst: 4150 **Date Prepared:** 12/04/2008 **Date Analyzed:** 12/04/2008

Lab Batch ID: 742400 **Sample:** 520524-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

RCRA Mercury by SW-846 7470A Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	<0.0020	0.0030	0.0029	97	0.003	0.0030	100	3	75-125	20	

Analyst: 4150 **Date Prepared:** 12/05/2008 **Date Analyzed:** 12/08/2008

Lab Batch ID: 742752 **Sample:** 520570-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

RCRA Metals by SW-846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.010	1.00	0.917	92	1	0.916	92	0	75-125	20	
Barium	<0.050	1.00	0.906	91	1	0.911	91	1	75-125	20	
Cadmium	<0.005	1.00	0.916	92	1	0.921	92	1	75-125	20	
Chromium	<0.050	1.00	0.921	92	1	0.925	93	0	75-125	20	
Lead	<0.010	1.00	0.903	90	1	0.908	91	1	75-125	20	
Selenium	<0.010	1.00	0.918	92	1	0.919	92	0	75-125	20	
Silver	<0.050	1.00	0.887	89	1	0.892	89	1	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 319343 **Project ID:** 08096

Lab Batch ID: 742403 **QC- Sample ID:** 319327-001 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 12/04/2008 **Date Prepared:** 12/04/2008 **Analyst:** SBA
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chemical Oxygen Demand by SM 5220D Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	190	200	380	95	200	380	95	0	71-128	20	

Lab Batch ID: 742753 **QC- Sample ID:** 319251-001 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 12/08/2008 **Date Prepared:** 12/08/2008 **Analyst:** 4150
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals by SW-846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	9.00	10.5	117	9.00	10.6	118	1	75-125	20	

Lab Batch ID: 742986 **QC- Sample ID:** 318390-015 S **Batch #:** 1 **Matrix:** Water
Date Analyzed: 12/09/2008 **Date Prepared:** 12/09/2008 **Analyst:** MAB
Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	4.06	40.0	14.5	26	40.0	14.5	26	0	80-120	20	X
Sulfate	1.56	40.0	11.2	24	40.0	11.3	24	0	80-120	20	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 319343 **Project ID:** 08096

Lab Batch ID: 742400 **QC- Sample ID:** 319137-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 12/04/2008 **Date Prepared:** 12/04/2008 **Analyst:** 4150

Reporting Units: ug/L

RCRA Mercury by SW-846 7470A Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	<2.000	3.000	0.5203	17	3.000	0.5207	17	0	75-125	20	X

Lab Batch ID: 742752 **QC- Sample ID:** 319251-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 12/08/2008 **Date Prepared:** 12/05/2008 **Analyst:** 4150

Reporting Units: mg/L

RCRA Metals by SW-846 6010B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.010	1.00	0.923	92	1.00	0.920	92	0	75-125	20	
Barium	0.125	1.00	1.02	90	1.00	1.02	90	0	75-125	20	
Cadmium	<0.005	1.00	0.922	92	1.00	0.918	92	0	75-125	20	
Chromium	<0.050	1.00	0.928	93	1.00	0.921	92	1	75-125	20	
Lead	<0.010	1.00	0.909	91	1.00	0.903	90	1	75-125	20	
Selenium	<0.010	1.00	0.927	93	1.00	0.920	92	1	75-125	20	
Silver	<0.050	1.00	0.891	89	1.00	0.883	88	1	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 319343 **Project ID:** 08096

Lab Batch ID: 742853 **QC- Sample ID:** 318986-029 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 12/09/2008 **Date Prepared:** 12/08/2008 **Analyst:** ANI

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCLP VOCs by SW1311/8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<5.00	50.0	49.0	98	50.0	48.0	96	2	70-130	20	
Benzene	<5.0	50	47	94	50.0	46.0	92	2	80-120	20	
Chlorobenzene	<5.0	50	50	100	50.0	48.0	96	4	80-120	20	
Trichloroethene	<5.0	50	44	88	50	43	86	2	70-125	20	

Lab Batch ID: 743155 **QC- Sample ID:** 319341-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 12/10/2008 **Date Prepared:** 12/10/2008 **Analyst:** 4124

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCLP VOCs by SW1311/8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<1.00	50.0	40.9	82	50.0	38.9	78	5	70-130	20	
Benzene	<1.00	50.0	50.1	100	50	48	96	4	80-120	20	
Chlorobenzene	<1.00	50.0	47.8	96	50.0	48.4	97	1	80-120	20	
Trichloroethylene	<1.00	50.0	51.0	102	50.0	48.0	96	6	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 319343

Lab Batch #: 743411 **Project ID:** 08096
Date Analyzed: 12/11/2008 **Date Prepared:** 12/11/2008 **Analyst:** 4154
QC- Sample ID: 318760-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Alkalinity by SM2320B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Alkalinity, Total (as CaCO3)	313	314	0	20	

Lab Batch #: 742986
Date Analyzed: 12/09/2008 **Date Prepared:** 12/09/2008 **Analyst:** MAB
QC- Sample ID: 318390-015 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Anions by EPA 300 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	4.06	4.04	0	20	
Sulfate	1.56	1.55	1	20	

Lab Batch #: 742733
Date Analyzed: 12/03/2008 **Date Prepared:** 12/03/2008 **Analyst:** 4154
QC- Sample ID: 319331-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Biochemical Oxygen Demand by SM 5210B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Biochemical Oxygen Demand, 5 day	2630	2660	1	20	

Lab Batch #: 742403
Date Analyzed: 12/04/2008 **Date Prepared:** 12/04/2008 **Analyst:**
QC- Sample ID: 319327-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Chemical Oxygen Demand by SM 5220D Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
COD - Chemical Oxygen Demand	190	180	5	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

Sample Duplicate Recovery

Project Name: Fashion Care

Work Order #: 319343

Lab Batch #: 742753 **Project ID:** 08096
Date Analyzed: 12/08/2008 **Date Prepared:** 12/08/2008 **Analyst:** 4150
QC- Sample ID: 319251-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Dissolved Metals by SW-846 6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Iron (Dissolved)	<0.100	<0.100	NC	20	

Lab Batch #: 742400
Date Analyzed: 12/04/2008 **Date Prepared:** 12/04/2008 **Analyst:** 4150
QC- Sample ID: 319137-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: ug/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

RCRA Mercury by SW-846 7470A Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Mercury	<2.000	<2.000	NC	20	

Lab Batch #: 742752
Date Analyzed: 12/08/2008 **Date Prepared:** 12/05/2008 **Analyst:** 4150
QC- Sample ID: 319251-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

RCRA Metals by SW-846 6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Arsenic	<0.010	<0.010	NC	20	
Barium	0.125	0.124	1	20	
Cadmium	<0.005	<0.005	NC	20	
Chromium	<0.050	<0.050	NC	20	
Lead	<0.010	0.002	NC	20	
Selenium	<0.010	<0.010	NC	20	
Silver	<0.050	<0.050	NC	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

XENCO Laboratories

☐ 5757 N.W. 158th Street, Miami Lakes, Fl 33014 305-823-8500
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☐ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

☐ Philadephia/New Jersey 610-955-5649

Serial #: 223371

Company-City: Winter Environmental
Phone: 404 588 3300
Lab Only: WO# 319343
Proj Name-Location: Fashion Cove ☐ Previously done at XENCO
Project ID: 08096
TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.
Proj State: AL, FL ,GA, LA, MS, NC, NJ, PA, SC, TN, TX , UT Other
Proj. Manager (PM): Len DiPrima
Fax Results to ☐ PM or
e-mail to: ldiprima@winter-environmental.com
Fax No:
Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☒ Invoice must have a P.O Bill to: Len DiPrima
Quote/Pricing:
P.O No: 08096 ☐ Call for P.O.
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA
QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)
LPST No.:
Sampler Name: Greg Muse Signature:

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs BTEX-MTBE VOHs VOAs PP TCL Appdx 2	Method: 8260 8021 624 524	PAHs: 8270 8100 8310 8270_SIM	TRPH by FL PRO DRO GRO MA EPH MA VPH	SVOCs: 8270 625 - (BN&AE) (TCL) (PP) (Appdx 2)	Pest. (8081 / 608) PCBs (8082 / 608) Herb. (8151 / 615)	EDB / DBCP (8011 / 504)	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	Metals Methods: 6020 / 6010 / 200.8 / 7470 / 7471	SPLP - (TCLP) (Metals VOCs SVOCs Pest. Herb. PCBs)	FL Preburn: Virgin Non-Virgin	Dissolved Fe	BOD, Anions, Alk	COD	TAT ASAP 5h 12h 24h 48h 3d (5d) 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Remarks: Sample Clean-ups are pre-approved as needed	Addn: Date Rcv by: From:
1	FMW-9	12/3/08	1315		W		X	6		PC		X							X				X	X	X		X				1
2	FMW-7	12/3/08	1115		W		X	6		PC		X							X				X	X	X		X				2
3	TRIP BLANK	1			W			2		C		X															X				3
4	T-1	12/3/08	1400		W	X		2		C											X						X				4
5																															5
6																															6
7																															7
8																															8
9																															9
10																															10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) [signature]	12/3/08 1550	2) [signature]	12/3/08 1550
3)		4)	
5)		6)	

Total Containers per COC: Cooler Temp:

All XENCO Standard Terms and Conditions Apply.

Rush Charges are Pre-Approved upon Requesting them.

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O) _____

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tedlar Bag (B), Wipe (W), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Other (O) _____

Matrix: Air (A), Product (P), Solid(S), Water (W)

Committed to Excellence in Service and Quality www.xenco.com

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Winter

Date/ Time: 12/3/08 1550

Lab ID # : 319343

Initials: [illegible]

Sample Receipt Checklist

#1	Temperature of cooler?				5 °c
#2	Shipping container in good condition?	YES	No	None	
#3	Samples received on ice?	YES	No	N/A	Blue/Water
#4	Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	N/A	
#6	Chain of Custody present?	YES	No		
#7	Sample instructions complete of Chain of Custody?	YES	No		
#8	Any missing/extra samples?	Yes	NO		
#9	Chain of Custody signed when relinquished/ received?	YES	No		
#10	Chain of Custody agrees with sample label(s)?	YES	No		
#11	Container label(s) legible and intact?	YES	No		
#12	Sample matrix/ properties agree with Chain of Custody?	YES	No		
#13	Samples in proper container/ bottle?	YES	No		
#14	Samples properly preserved?	YES	No	N/A	
#15	Sample container(s) intact?	YES	No		
#16	Sufficient sample amount for indicated test(s)?	YES	No		
#17	All samples received within sufficient hold time?	YES	No		
#18	Subcontract of sample(s)?	Yes	NO		
#19	VOC samples have zero headspace?	YES	No	N/A	

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

EZ-Serve Analytical Data
Stantec (EPD UST Program Contractor)

WINTER ENVIRONMENTAL

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 07, 2008

Trina Barron
Stantec Consulting
1600 Oakbrook Dr
Suite 510
Norcross, GA 30093
TEL: (678) 389-3661
FAX: (678) 389-3701

RE: N. Peachtree GUST EZ Serve 8102

Order No.: 0806534

Dear Trina Barron:

Analytical Environmental Services, Inc. received 32 samples on 6/9/2008 12:50:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/08-06/30/09.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 08/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 94 total pages (including cover letter).

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

Sincerely,

Justin Sasser
Project Manager
Revision: Per Client request, VOC select list has been updated

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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

CHAIN OF CUSTODY

Work Order: 0806534

Date: 6-9-08 Page 1 of 3

COMPANY: STANTEC Consulting

ADDRESS: 1600 OAKBROOK Drive Suite 610 Norcross, GA 30093

PHONE: 678-389-3661

FAX:

SAMPLED BY: Jason Sills / Mark Bryant

SIGNATURE: [signature]

ANALYSIS REQUESTED: 8270 CAH, 8260*

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	8270 CAH	8260*	REMARKS	No # of Containers
1	MW-20	6-7-08	0840	X		GW	2	2		4
2	RW-05		0856				2	2		4
3	MW-16		0920				2	2		4
4	MW-2R		0937				2	2		4
5	MW-22		1010				2	2		4
6	MW-03		1020				2	2		4
7	RW-04		1040				2	2		4
8	RW-03		1100				2	2		4
9	MW-15		1120				2	2		4
10	MW-12		1150				2	2		4
11	MW-23D		1220				2	2		4
12	MW-09R		1340				2	2		4
13	MW-08		1405				2	2		4
14	RW-12		1425				2	2		4

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: [signature]	6-9-08 1250	1: [signature]	6/9/8 12:30
2:		2:	
3:		3:	

PROJECT INFORMATION

PROJECT NAME: N. Peachtree Gust E2 Serve 8102

PROJECT #:

SITE ADDRESS: 4308 N. Peachtree Rd. Chamblee, GA

SEND REPORT TO: Trina Barron

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 56/118

Turnaround Time Request
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same Day Rush (auth req.)
- [ ] Other

STATE PROGRAM (if any): GUST

E-mail? Y / N. Fax? Y / N

DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS: * BTEX, MTBE, TAME, DPE, ETBE, TBA, 1-2 DCA

SHIPMENT METHOD
OUT / / VIA
IN / / VIA
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

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

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

White Copy - Original; Yellow Copy - Client

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

CHAIN OF CUSTODY

Work Order: 0806534

Date: 6/9/08 Page 2 of 2

COMPANY: STANTEC Consulting

ADDRESS: 1600 OAKBrook Drive Suite 510 Norcross, GA 30093

PHONE: 678-389-3661

FAX:

SAMPLED BY: J.S. Hs / Mark Bard

SIGNATURE: [signature]

ANALYSIS REQUESTED: 8270 PAH; 8260 *

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	8270 PAH	8260 *	REMARKS	No # of Containers
1	✓ RW-13	6-7-08	1501	X			2	2		4
2	RW-11		1520				2	2		4
3	MW-18		1540				2	2		4
4	✓ MW-19		1600				2	2		4
5	MW-4R		1620				2	2		4
6	RW-06		1640				2	2		4
7	✓ RW-10		1655				2	2		4
8	✓ MW-11	6-8-08	1029				2	2		4
9	RW-01		1150				2	2		4
10	RW-02		1230				2	2		4
11	✓ MW-21		1340				2	2		4
12	✓ RW-08		1430				2	2		4
13	MW-13		1600				2	2		4
14	✓ MW-14		1700				2	2		4

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: [signature]	6-9-08	1: [signature]	6/9/8
2:		2:	12:00
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: N. Peachtree GUST EZ Serve 8102
PROJECT #:
SITE ADDRESS: 4308 N. Peachtree Rd. Chamblee, GA
SEND REPORT TO: Trina Barron
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers: 56/118

Turnaround Time Request
- (X) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other

STATE PROGRAM (if any):
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

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

CHAIN OF CUSTODY

Work Order: _____

Date: _____ Page 3 of 3

COMPANY: STANTEC Consulting

ADDRESS: 1600 Oakbrook Drive Suite 510 Norcross GA 30093

PHONE: 678-389-3661

FAX:

SAMPLED BY: Mark Bard

SIGNATURE: [signature]

ANALYSIS REQUESTED

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	8270	8260	REMARKS	No # of Containers
1	RW-09	6-8-08	1600				2	2		4
2	TRIP Blank	6-8-08	NA				0	2		2
3	TRIP Blank	[illegible]	NA							
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1. Mark Bard	6-9-08 1250	1. [signature]	6/9/8 12:50
2.		2.	
3.		3.	

PROJECT INFORMATION

PROJECT NAME: N Peachtree GUST E2 Serv 8102

PROJECT #:

SITE ADDRESS: 4308 N. Peachtree St. Chamblee, GA

SEND REPORT TO: Trina Barron

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: _____ PO#: _____

RECEIPT

Total # of Containers: 6/11

Turnaround Time Request
- (X) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other _____

STATE PROGRAM (if any): GUST

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

DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS: * BTEX, MTBE, TAME, DPE, ETBE, TBA, 1-2 DCA

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
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MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

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

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client STANTEC Work Order Number 0R05.34

Checklist completed by [signature] 6/9/8
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

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

Cooler #1 3.4° Cooler #2 2.9° Cooler #3 3.7° Cooler #4 3.6° Cooler#5 2.5° Cooler #6 2.8°

Chain of custody present? Yes ✓ No __ #7 3.4°

Chain of custody signed when relinquished and received? Yes ✓ No __ #8 3°

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by MJ

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Analytical Environmental Services, Inc. **Date:** *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab Order: 0806534

CASE NARRATIVE

Three sets of Trip Blanks were provided. Trip Blanks were logged in as Trip Blank 1, Trip Blank 2, and Trip Blank 3 and analyzed at no cost to the client.

Volatile Organic Compounds Analysis by Method 8260B:

Benzene and Toluene values for the QC samples 0806534-024AMS/MSD are "E" qualified indicating estimated values over linear calibration range due to the level of target analyte present in the unspiked sample.

Tetrachloroethene and Trichloroethene values for sample 0806534-011A are "E" qualified indicating estimated values over linear calibration range. Sample was not diluted and reanalyzed due to analytes not being evaluated at the time of analysis

Acetone and 2-Butanone values for sample 0806534-024A are "E" qualified indicating estimated values over linear calibration range. Sample was not diluted and reanalyzed due to analytes not being evaluated at the time of analysis

cis-1,2-Dichloroethene value for sample 0806534-028A is "E" qualified indicating an estimated value over linear calibration range. Sample was not diluted further and reanalyzed due to analyte not being evaluated at the time of analysis

The reporting limit for Tetrachloroethene on samples 0806534-019A (13 µg/L), -020A (9 µg/L), and -025A (6 µg/L) are elevated due to contamination and analyte not being evaluated at the time of analysis.

Semivolatile Organic Compounds Analysis by Method 8270C:

LCS-100447 recovery for Acenaphthylene was outside control limits biased high. Target analyte was not detected in the analytical samples and data is reportable with high bias.

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-001

Client Sample ID: MW-20
Collection Date: 6/7/2008 8:40:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		**Analyst: YH**
Naphthalene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Fluorene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Anthracene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Pyrene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Chrysene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/11/2008 9:56 PM
Surr: Nitrobenzene-d5	93.0	30.2-123		%REC	100447	1	6/11/2008 9:56 PM
Surr: 2-Fluorobiphenyl	90.3	47.4-115		%REC	100447	1	6/11/2008 9:56 PM
Surr: 4-Terphenyl-d14	80.1	57.5-129		%REC	100447	1	6/11/2008 9:56 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		**Analyst: CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 11:21 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 11:21 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 11:21 AM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 11:21 AM
Benzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-001

Client Sample ID: MW-20
Collection Date: 6/7/2008 8:40:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 11:21 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 11:21 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Cyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 11:21 AM
Ethylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 11:21 AM
Isopropylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
m,p-Xylene	BRL	10		ug/L	100596	1	6/13/2008 11:21 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Methyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Methylcyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
o-Xylene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Toluene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 11:21 AM
Surr: 4-Bromofluorobenzene	83.4	60.4-132		%REC	100596	1	6/13/2008 11:21 AM
Surr: Dibromofluoromethane	94.5	76.2-120		%REC	100596	1	6/13/2008 11:21 AM
Surr: Toluene-d8	91.5	73.3-124		%REC	100596	1	6/13/2008 11:21 AM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100596	1	6/13/2008 11:21 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-002

Client Sample ID: RW-05
Collection Date: 6/7/2008 8:56:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: YH
Naphthalene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Fluorene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Anthracene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Pyrene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Chrysene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/11/2008 10:22 PM
Surr: Nitrobenzene-d5	95.1	30.2-123		%REC	100447	1	6/11/2008 10:22 PM
Surr: 2-Fluorobiphenyl	94.1	47.4-115		%REC	100447	1	6/11/2008 10:22 PM
Surr: 4-Terphenyl-d14	71.9	57.5-129		%REC	100447	1	6/11/2008 10:22 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: CAB
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 3:00 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 3:00 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 3:00 AM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 3:00 AM
Benzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-002

Client Sample ID: RW-05
Collection Date: 6/7/2008 8:56:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 3:00 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 3:00 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Cyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 3:00 AM
Ethylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 3:00 AM
Isopropylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
m,p-Xylene	BRL	10		ug/L	100596	1	6/13/2008 3:00 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Methyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Methylcyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
o-Xylene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Toluene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 3:00 AM
Surr: 4-Bromofluorobenzene	84.9	60.4-132		%REC	100596	1	6/13/2008 3:00 AM
Surr: Dibromofluoromethane	92.2	76.2-120		%REC	100596	1	6/13/2008 3:00 AM
Surr: Toluene-d8	90.4	73.3-124		%REC	100596	1	6/13/2008 3:00 AM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100596	1	6/13/2008 3:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-003

Client Sample ID: MW-16
Collection Date: 6/7/2008 9:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS		**SW8270C**			**(SW3510)**		Analyst: **YH**
Naphthalene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Fluorene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Anthracene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Pyrene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Chrysene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/11/2008 10:48 PM
Surr: Nitrobenzene-d5	95.6	30.2-123		%REC	100447	1	6/11/2008 10:48 PM
Surr: 2-Fluorobiphenyl	96.1	47.4-115		%REC	100447	1	6/11/2008 10:48 PM
Surr: 4-Terphenyl-d14	89.0	57.5-129		%REC	100447	1	6/11/2008 10:48 PM
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 3:28 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 3:28 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 3:28 AM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 3:28 AM
Benzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-003

Client Sample ID: MW-16
Collection Date: 6/7/2008 9:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 3:28 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 3:28 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Cyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 3:28 AM
Ethylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 3:28 AM
Isopropylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
m,p-Xylene	BRL	10		ug/L	100596	1	6/13/2008 3:28 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Methyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Methylcyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
o-Xylene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Toluene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 3:28 AM
Surr: 4-Bromofluorobenzene	85.7	60.4-132		%REC	100596	1	6/13/2008 3:28 AM
Surr: Dibromofluoromethane	93.9	76.2-120		%REC	100596	1	6/13/2008 3:28 AM
Surr: Toluene-d8	92.4	73.3-124		%REC	100596	1	6/13/2008 3:28 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100596	1	6/13/2008 3:28 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-004

Client Sample ID: MW-2R
Collection Date: 6/7/2008 9:37:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		**Analyst: YH**
Naphthalene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Fluorene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Anthracene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Pyrene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Chrysene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/11/2008 4:51 PM
Surr: Nitrobenzene-d5	96.5	30.2-123		%REC	100447	1	6/11/2008 4:51 PM
Surr: 2-Fluorobiphenyl	101	47.4-115		%REC	100447	1	6/11/2008 4:51 PM
Surr: 4-Terphenyl-d14	74.3	57.5-129		%REC	100447	1	6/11/2008 4:51 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		**Analyst: CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 11:48 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 11:48 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 11:48 AM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 11:48 AM
Benzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-004

Client Sample ID: MW-2R
Collection Date: 6/7/2008 9:37:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 11:48 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 11:48 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Cyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 11:48 AM
Ethylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 11:48 AM
Isopropylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
m,p-Xylene	BRL	10		ug/L	100596	1	6/13/2008 11:48 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Methyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Methylcyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
o-Xylene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Toluene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 11:48 AM
Surr: 4-Bromofluorobenzene	87.7	60.4-132		%REC	100596	1	6/13/2008 11:48 AM
Surr: Dibromofluoromethane	97.5	76.2-120		%REC	100596	1	6/13/2008 11:48 AM
Surr: Toluene-d8	89.4	73.3-124		%REC	100596	1	6/13/2008 11:48 AM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100596	1	6/13/2008 11:48 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-005

Client Sample ID: MW-22
Collection Date: 6/7/2008 10:10:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		**Analyst: YH**
Naphthalene	53	10		ug/L	100447	1	6/11/2008 11:14 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
1-Methylnaphthalene	20	10		ug/L	100447	1	6/11/2008 11:14 PM
2-Methylnaphthalene	36	10		ug/L	100447	1	6/11/2008 11:14 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Fluorene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Anthracene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Pyrene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Chrysene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/11/2008 11:14 PM
Surr: Nitrobenzene-d5	91.9	30.2-123		%REC	100447	1	6/11/2008 11:14 PM
Surr: 2-Fluorobiphenyl	92.9	47.4-115		%REC	100447	1	6/11/2008 11:14 PM
Surr: 4-Terphenyl-d14	83.5	57.5-129		%REC	100447	1	6/11/2008 11:14 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		**Analyst: CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 3:56 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 3:56 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 3:56 AM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 3:56 AM
Benzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-005

Client Sample ID: MW-22
Collection Date: 6/7/2008 10:10:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 3:56 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 3:56 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Cyclohexane	53	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 3:56 AM
Ethylbenzene	57	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 3:56 AM
Isopropylbenzene	27	5.0		ug/L	100596	1	6/13/2008 3:56 AM
m,p-Xylene	70	10		ug/L	100596	1	6/13/2008 3:56 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Methyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Methylcyclohexane	43	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
o-Xylene	150	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Toluene	21	5.0		ug/L	100596	1	6/13/2008 3:56 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 3:56 AM
Surr: 4-Bromofluorobenzene	90.8	60.4-132		%REC	100596	1	6/13/2008 3:56 AM
Surr: Dibromofluoromethane	91.9	76.2-120		%REC	100596	1	6/13/2008 3:56 AM
Surr: Toluene-d8	92.0	73.3-124		%REC	100596	1	6/13/2008 3:56 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100596	1	6/13/2008 3:56 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-006

Client Sample ID: MW-03
Collection Date: 6/7/2008 10:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	280	100		ug/L	100447	10	6/12/2008 6:09 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
1-Methylnaphthalene	110	10		ug/L	100447	1	6/11/2008 11:41 PM
2-Methylnaphthalene	210	100		ug/L	100447	10	6/12/2008 6:09 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Fluorene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Anthracene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Pyrene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Chrysene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/11/2008 11:41 PM
Surr: Nitrobenzene-d5	97.3	30.2-123		%REC	100447	1	6/11/2008 11:41 PM
Surr: 2-Fluorobiphenyl	91.6	47.4-115		%REC	100447	1	6/11/2008 11:41 PM
Surr: 4-Terphenyl-d14	85.0	57.5-129		%REC	100447	1	6/11/2008 11:41 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 4:23 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 4:23 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 4:23 AM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 4:23 AM
Benzene	68	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-006

Client Sample ID: MW-03
Collection Date: 6/7/2008 10:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 4:23 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 4:23 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Cyclohexane	130	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 4:23 AM
Ethylbenzene	860	100		ug/L	100596	20	6/13/2008 1:34 PM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 4:23 AM
Isopropylbenzene	95	5.0		ug/L	100596	1	6/13/2008 4:23 AM
m,p-Xylene	2800	200		ug/L	100596	20	6/13/2008 1:34 PM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Methyl tert-butyl ether	38	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Methylcyclohexane	200	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
o-Xylene	1300	100		ug/L	100596	20	6/13/2008 1:34 PM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Toluene	220	100		ug/L	100596	20	6/13/2008 1:34 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 4:23 AM
Surr: 4-Bromofluorobenzene	96.7	60.4-132		%REC	100596	1	6/13/2008 4:23 AM
Surr: 4-Bromofluorobenzene	104	60.4-132		%REC	100596	20	6/13/2008 1:34 PM
Surr: Dibromofluoromethane	90.8	76.2-120		%REC	100596	20	6/13/2008 1:34 PM
Surr: Dibromofluoromethane	89.5	76.2-120		%REC	100596	1	6/13/2008 4:23 AM
Surr: Toluene-d8	95.1	73.3-124		%REC	100596	20	6/13/2008 1:34 PM
Surr: Toluene-d8	96.6	73.3-124		%REC	100596	1	6/13/2008 4:23 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 4:23 AM
tert-Butyl Alcohol	210	5.0		ug/L	100596	1	6/13/2008 4:23 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-007

Client Sample ID: RW-04
Collection Date: 6/7/2008 10:40:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	210	100		ug/L	100447	10	6/12/2008 6:39 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
1-Methylnaphthalene	83	10		ug/L	100447	1	6/12/2008 12:08 AM
2-Methylnaphthalene	130	10		ug/L	100447	1	6/12/2008 12:08 AM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 12:08 AM
Surr: Nitrobenzene-d5	94.2	30.2-123		%REC	100447	1	6/12/2008 12:08 AM
Surr: 2-Fluorobiphenyl	94.3	47.4-115		%REC	100447	1	6/12/2008 12:08 AM
Surr: 4-Terphenyl-d14	89.8	57.5-129		%REC	100447	1	6/12/2008 12:08 AM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 4:51 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 4:51 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 4:51 AM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 4:51 AM
Benzene	180	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-007

Client Sample ID: RW-04
Collection Date: 6/7/2008 10:40:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 4:51 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 4:51 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Cyclohexane	140	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 4:51 AM
Ethylbenzene	580	50		ug/L	100596	10	6/13/2008 2:30 PM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 4:51 AM
Isopropylbenzene	87	5.0		ug/L	100596	1	6/13/2008 4:51 AM
m,p-Xylene	470	100		ug/L	100596	10	6/13/2008 2:30 PM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Methyl tert-butyl ether	75	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Methylcyclohexane	150	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
o-Xylene	48	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Toluene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 4:51 AM
Surr: 4-Bromofluorobenzene	102	60.4-132		%REC	100596	10	6/13/2008 2:30 PM
Surr: 4-Bromofluorobenzene	92.2	60.4-132		%REC	100596	1	6/13/2008 4:51 AM
Surr: Dibromofluoromethane	90.4	76.2-120		%REC	100596	10	6/13/2008 2:30 PM
Surr: Dibromofluoromethane	90.8	76.2-120		%REC	100596	1	6/13/2008 4:51 AM
Surr: Toluene-d8	95.0	73.3-124		%REC	100596	10	6/13/2008 2:30 PM
Surr: Toluene-d8	92.5	73.3-124		%REC	100596	1	6/13/2008 4:51 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
Isopropyl ether	6.3	5.0		ug/L	100596	1	6/13/2008 4:51 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100596	1	6/13/2008 4:51 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-008

Client Sample ID: RW-03
Collection Date: 6/7/2008 11:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		**Analyst: YH**
Naphthalene	96	10		ug/L	100447	1	6/12/2008 12:34 AM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
1-Methylnaphthalene	23	10		ug/L	100447	1	6/12/2008 12:34 AM
2-Methylnaphthalene	41	10		ug/L	100447	1	6/12/2008 12:34 AM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 12:34 AM
Surr: Nitrobenzene-d5	100	30.2-123		%REC	100447	1	6/12/2008 12:34 AM
Surr: 2-Fluorobiphenyl	97.2	47.4-115		%REC	100447	1	6/12/2008 12:34 AM
Surr: 4-Terphenyl-d14	82.6	57.5-129		%REC	100447	1	6/12/2008 12:34 AM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		**Analyst: CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 5:18 AM
2-Hexanone	53	10		ug/L	100596	1	6/13/2008 5:18 AM
4-Methyl-2-pentanone	20	10		ug/L	100596	1	6/13/2008 5:18 AM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 5:18 AM
Benzene	120	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-008

Client Sample ID: RW-03
Collection Date: 6/7/2008 11:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 5:18 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 5:18 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Cyclohexane	31	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 5:18 AM
Ethylbenzene	180	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 5:18 AM
Isopropylbenzene	62	5.0		ug/L	100596	1	6/13/2008 5:18 AM
m,p-Xylene	210	10		ug/L	100596	1	6/13/2008 5:18 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Methyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Methylcyclohexane	34	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
o-Xylene	300	50		ug/L	100596	10	6/13/2008 2:02 PM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Toluene	31	5.0		ug/L	100596	1	6/13/2008 5:18 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 5:18 AM
Surr: 4-Bromofluorobenzene	101	60.4-132		%REC	100596	10	6/13/2008 2:02 PM
Surr: 4-Bromofluorobenzene	89.2	60.4-132		%REC	100596	1	6/13/2008 5:18 AM
Surr: Dibromofluoromethane	88.2	76.2-120		%REC	100596	10	6/13/2008 2:02 PM
Surr: Dibromofluoromethane	90.5	76.2-120		%REC	100596	1	6/13/2008 5:18 AM
Surr: Toluene-d8	94.0	73.3-124		%REC	100596	10	6/13/2008 2:02 PM
Surr: Toluene-d8	90.8	73.3-124		%REC	100596	1	6/13/2008 5:18 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100596	1	6/13/2008 5:18 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-009

Client Sample ID: MW-15
Collection Date: 6/7/2008 11:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS		**SW8270C**			**(SW3510)**		Analyst: **EI**
Naphthalene	130	100		ug/L	100447	10	6/12/2008 7:09 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:00 AM
Surr: Nitrobenzene-d5	102	30.2-123		%REC	100447	1	6/12/2008 1:00 AM
Surr: 2-Fluorobiphenyl	98.7	47.4-115		%REC	100447	1	6/12/2008 1:00 AM
Surr: 4-Terphenyl-d14	89.9	57.5-129		%REC	100447	1	6/12/2008 1:00 AM
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 12:16 PM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 12:16 PM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 12:16 PM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 12:16 PM
Benzene	1300	50		ug/L	100596	10	6/13/2008 5:19 PM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-009

Client Sample ID: MW-15
Collection Date: 6/7/2008 11:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 12:16 PM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 12:16 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Cyclohexane	34	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 12:16 PM
Ethylbenzene	13	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 12:16 PM
Isopropylbenzene	27	5.0		ug/L	100596	1	6/13/2008 12:16 PM
m,p-Xylene	BRL	10		ug/L	100596	1	6/13/2008 12:16 PM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Methyl tert-butyl ether	320	50		ug/L	100596	10	6/13/2008 5:19 PM
Methylcyclohexane	29	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
o-Xylene	7.8	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Toluene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 12:16 PM
Surr: 4-Bromofluorobenzene	97.2	60.4-132		%REC	100596	10	6/13/2008 5:19 PM
Surr: 4-Bromofluorobenzene	87.6	60.4-132		%REC	100596	1	6/13/2008 12:16 PM
Surr: Dibromofluoromethane	89.3	76.2-120		%REC	100596	10	6/13/2008 5:19 PM
Surr: Dibromofluoromethane	90.5	76.2-120		%REC	100596	1	6/13/2008 12:16 PM
Surr: Toluene-d8	96.1	73.3-124		%REC	100596	10	6/13/2008 5:19 PM
Surr: Toluene-d8	94.3	73.3-124		%REC	100596	1	6/13/2008 12:16 PM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
Isopropyl ether	140	5.0		ug/L	100596	1	6/13/2008 12:16 PM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 12:16 PM
tert-Butyl Alcohol	390	5.0		ug/L	100596	1	6/13/2008 12:16 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-010

Client Sample ID: MW-12
Collection Date: 6/7/2008 11:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **YH**
Naphthalene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:26 AM
Surr: Nitrobenzene-d5	90.2	30.2-123		%REC	100447	1	6/12/2008 1:26 AM
Surr: 2-Fluorobiphenyl	94.2	47.4-115		%REC	100447	1	6/12/2008 1:26 AM
Surr: 4-Terphenyl-d14	80.5	57.5-129		%REC	100447	1	6/12/2008 1:26 AM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 12:44 PM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 12:44 PM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 12:44 PM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 12:44 PM
Benzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-010

Client Sample ID: MW-12
Collection Date: 6/7/2008 11:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 12:44 PM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 12:44 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Cyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 12:44 PM
Ethylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 12:44 PM
Isopropylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
m,p-Xylene	BRL	10		ug/L	100596	1	6/13/2008 12:44 PM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Methyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Methylcyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
o-Xylene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Toluene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 12:44 PM
Surr: 4-Bromofluorobenzene	83.2	60.4-132		%REC	100596	1	6/13/2008 12:44 PM
Surr: Dibromofluoromethane	93.5	76.2-120		%REC	100596	1	6/13/2008 12:44 PM
Surr: Toluene-d8	91.2	73.3-124		%REC	100596	1	6/13/2008 12:44 PM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 12:44 PM
tert-Butyl Alcohol	460	5.0		ug/L	100596	1	6/13/2008 12:44 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-011

Client Sample ID: MW-23D
Collection Date: 6/7/2008 12:20:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS		**SW8270C**			**(SW3510)**		Analyst: **YH**
Naphthalene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:52 AM
Surr: Nitrobenzene-d5	97.6	30.2-123		%REC	100447	1	6/12/2008 1:52 AM
Surr: 2-Fluorobiphenyl	99.1	47.4-115		%REC	100447	1	6/12/2008 1:52 AM
Surr: 4-Terphenyl-d14	59.4	57.5-129		%REC	100447	1	6/12/2008 1:52 AM
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,2-Dichlorobenzene	5.8	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
2-Butanone	BRL	50		ug/L	100596	1	6/14/2008 1:08 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/14/2008 1:08 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/14/2008 1:08 AM
Acetone	BRL	50		ug/L	100596	1	6/14/2008 1:08 AM
Benzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-011

Client Sample ID: MW-23D
Collection Date: 6/7/2008 12:20:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Chloroethane	BRL	10		ug/L	100596	1	6/14/2008 1:08 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Chloromethane	BRL	10		ug/L	100596	1	6/14/2008 1:08 AM
cis-1,2-Dichloroethene	68	5.0		ug/L	100596	1	6/14/2008 1:08 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Cyclohexane	5.0	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/14/2008 1:08 AM
Ethylbenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Freon-113	BRL	10		ug/L	100596	1	6/14/2008 1:08 AM
Isopropylbenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
m,p-Xylene	BRL	10		ug/L	100596	1	6/14/2008 1:08 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Methyl tert-butyl ether	49	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Methylcyclohexane	5.6	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
o-Xylene	11	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Styrene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Tetrachloroethene	26000	5.0	E	ug/L	100596	1	6/14/2008 1:08 AM
Toluene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Trichloroethene	700	5.0	E	ug/L	100596	1	6/14/2008 1:08 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/14/2008 1:08 AM
Surr: 4-Bromofluorobenzene	89.4	60.4-132		%REC	100596	1	6/14/2008 1:08 AM
Surr: Dibromofluoromethane	93.2	76.2-120		%REC	100596	1	6/14/2008 1:08 AM
Surr: Toluene-d8	91.6	73.3-124		%REC	100596	1	6/14/2008 1:08 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
Isopropyl ether	11	5.0		ug/L	100596	1	6/14/2008 1:08 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/14/2008 1:08 AM
tert-Butyl Alcohol	150	5.0		ug/L	100596	1	6/14/2008 1:08 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-012

Client Sample ID: MW-09R
Collection Date: 6/7/2008 1:40:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS		**SW8270C**			**(SW3510)**		Analyst: **EI**
Naphthalene	790	100		ug/L	100447	10	6/12/2008 7:39 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
1-Methylnaphthalene	240	100		ug/L	100447	10	6/12/2008 7:39 PM
2-Methylnaphthalene	450	100		ug/L	100447	10	6/12/2008 7:39 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 2:18 AM
Surr: Nitrobenzene-d5	97.8	30.2-123		%REC	100447	1	6/12/2008 2:18 AM
Surr: 2-Fluorobiphenyl	97.6	47.4-115		%REC	100447	1	6/12/2008 2:18 AM
Surr: 4-Terphenyl-d14	84.0	57.5-129		%REC	100447	1	6/12/2008 2:18 AM
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 1:12 PM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 1:12 PM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 1:12 PM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 1:12 PM
Benzene	1800	100		ug/L	100596	20	6/13/2008 5:48 PM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-012

Client Sample ID: MW-09R
Collection Date: 6/7/2008 1:40:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 1:12 PM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 1:12 PM
cis-1,2-Dichloroethene	110	5.0		ug/L	100596	1	6/13/2008 1:12 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Cyclohexane	110	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 1:12 PM
Ethylbenzene	1800	100		ug/L	100596	20	6/13/2008 5:48 PM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 1:12 PM
Isopropylbenzene	160	5.0		ug/L	100596	1	6/13/2008 1:12 PM
m,p-Xylene	3100	200		ug/L	100596	20	6/13/2008 5:48 PM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Methyl tert-butyl ether	89	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Methylcyclohexane	110	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
o-Xylene	400	100		ug/L	100596	20	6/13/2008 5:48 PM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Tetrachloroethene	120	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Toluene	180	100		ug/L	100596	20	6/13/2008 5:48 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Trichloroethene	21	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 1:12 PM
Surr: 4-Bromofluorobenzene	93.6	60.4-132		%REC	100596	1	6/13/2008 1:12 PM
Surr: 4-Bromofluorobenzene	99.8	60.4-132		%REC	100596	20	6/13/2008 5:48 PM
Surr: Dibromofluoromethane	91.0	76.2-120		%REC	100596	20	6/13/2008 5:48 PM
Surr: Dibromofluoromethane	87.4	76.2-120		%REC	100596	1	6/13/2008 1:12 PM
Surr: Toluene-d8	95.9	73.3-124		%REC	100596	20	6/13/2008 5:48 PM
Surr: Toluene-d8	94.9	73.3-124		%REC	100596	1	6/13/2008 1:12 PM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 1:12 PM
Isopropyl ether	42	5.0		ug/L	100596	1	6/13/2008 1:12 PM
tert-Amyl methyl ether	110	5.0		ug/L	100596	1	6/13/2008 1:12 PM
tert-Butyl Alcohol	210	5.0		ug/L	100596	1	6/13/2008 1:12 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-013

Client Sample ID: MW-08
Collection Date: 6/7/2008 2:05:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS		**SW8270C**			**(SW3510)**		Analyst: **EI**
Naphthalene	340	100		ug/L	100447	10	6/12/2008 8:08 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
1-Methylnaphthalene	85	10		ug/L	100447	1	6/12/2008 2:45 AM
2-Methylnaphthalene	140	10		ug/L	100447	1	6/12/2008 2:45 AM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 2:45 AM
Surr: Nitrobenzene-d5	101	30.2-123		%REC	100447	1	6/12/2008 2:45 AM
Surr: 2-Fluorobiphenyl	98.5	47.4-115		%REC	100447	1	6/12/2008 2:45 AM
Surr: 4-Terphenyl-d14	79.8	57.5-129		%REC	100447	1	6/12/2008 2:45 AM
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 1:39 PM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 1:39 PM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 1:39 PM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 1:39 PM
Benzene	1800	500		ug/L	100596	100	6/13/2008 6:18 PM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-013

Client Sample ID: MW-08
Collection Date: 6/7/2008 2:05:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 1:39 PM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 1:39 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Cyclohexane	85	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 1:39 PM
Ethylbenzene	900	500		ug/L	100596	100	6/13/2008 6:18 PM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 1:39 PM
Isopropylbenzene	71	5.0		ug/L	100596	1	6/13/2008 1:39 PM
m,p-Xylene	4300	1000		ug/L	100596	100	6/13/2008 6:18 PM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Methyl tert-butyl ether	22	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Methylcyclohexane	70	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
o-Xylene	1900	500		ug/L	100596	100	6/13/2008 6:18 PM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Toluene	3500	500		ug/L	100596	100	6/13/2008 6:18 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 1:39 PM
Surr: 4-Bromofluorobenzene	94.5	60.4-132		%REC	100596	1	6/13/2008 1:39 PM
Surr: 4-Bromofluorobenzene	101	60.4-132		%REC	100596	100	6/13/2008 6:18 PM
Surr: Dibromofluoromethane	90.6	76.2-120		%REC	100596	100	6/13/2008 6:18 PM
Surr: Dibromofluoromethane	88.0	76.2-120		%REC	100596	1	6/13/2008 1:39 PM
Surr: Toluene-d8	93.2	73.3-124		%REC	100596	100	6/13/2008 6:18 PM
Surr: Toluene-d8	94.5	73.3-124		%REC	100596	1	6/13/2008 1:39 PM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 1:39 PM
Isopropyl ether	50	5.0		ug/L	100596	1	6/13/2008 1:39 PM
tert-Amyl methyl ether	85	5.0		ug/L	100596	1	6/13/2008 1:39 PM
tert-Butyl Alcohol	30	5.0		ug/L	100596	1	6/13/2008 1:39 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-014

Client Sample ID: RW-12
Collection Date: 6/7/2008 2:25:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	13	10		ug/L	100447	1	6/12/2008 1:16 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:16 PM
Surr: Nitrobenzene-d5	79.8	30.2-123		%REC	100447	1	6/12/2008 1:16 PM
Surr: 2-Fluorobiphenyl	87.7	47.4-115		%REC	100447	1	6/12/2008 1:16 PM
Surr: 4-Terphenyl-d14	86.4	57.5-129		%REC	100447	1	6/12/2008 1:16 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
2-Butanone	BRL	50		ug/L	100596	1	6/14/2008 1:35 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/14/2008 1:35 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/14/2008 1:35 AM
Acetone	BRL	50		ug/L	100596	1	6/14/2008 1:35 AM
Benzene	31	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-014

Client Sample ID: RW-12
Collection Date: 6/7/2008 2:25:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Chloroethane	BRL	10		ug/L	100596	1	6/14/2008 1:35 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Chloromethane	BRL	10		ug/L	100596	1	6/14/2008 1:35 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Cyclohexane	5.7	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/14/2008 1:35 AM
Ethylbenzene	36	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Freon-113	BRL	10		ug/L	100596	1	6/14/2008 1:35 AM
Isopropylbenzene	16	5.0		ug/L	100596	1	6/14/2008 1:35 AM
m,p-Xylene	18	10		ug/L	100596	1	6/14/2008 1:35 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Methyl tert-butyl ether	36	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Methylcyclohexane	9.7	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
o-Xylene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Styrene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:06 PM
Toluene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/14/2008 1:35 AM
Surr: 4-Bromofluorobenzene	89.7	60.4-132		%REC	100596	1	6/13/2008 2:06 PM
Surr: 4-Bromofluorobenzene	90.0	60.4-132		%REC	100596	1	6/14/2008 1:35 AM
Surr: Dibromofluoromethane	88.5	76.2-120		%REC	100596	1	6/13/2008 2:06 PM
Surr: Dibromofluoromethane	93.7	76.2-120		%REC	100596	1	6/14/2008 1:35 AM
Surr: Toluene-d8	92.1	73.3-124		%REC	100596	1	6/14/2008 1:35 AM
Surr: Toluene-d8	92.3	73.3-124		%REC	100596	1	6/13/2008 2:06 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
Isopropyl ether	85	5.0		ug/L	100596	1	6/14/2008 1:35 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/14/2008 1:35 AM
tert-Butyl Alcohol	140	5.0		ug/L	100596	1	6/14/2008 1:35 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-015

Client Sample ID: RW-13
Collection Date: 6/7/2008 3:01:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: EI
Naphthalene	730	100		ug/L	100447	10	6/13/2008 6:09 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
1-Methylnaphthalene	160	100		ug/L	100447	10	6/13/2008 6:09 PM
2-Methylnaphthalene	320	100		ug/L	100447	10	6/13/2008 6:09 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 1:44 PM
Surr: Nitrobenzene-d5	78.7	30.2-123		%REC	100447	1	6/12/2008 1:44 PM
Surr: 2-Fluorobiphenyl	85.5	47.4-115		%REC	100447	1	6/12/2008 1:44 PM
Surr: 4-Terphenyl-d14	87.5	57.5-129		%REC	100447	1	6/12/2008 1:44 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: CAB
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 2:34 PM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 2:34 PM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 2:34 PM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 2:34 PM
Benzene	14000	500		ug/L	100596	100	6/13/2008 11:46 PM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-015

Client Sample ID: RW-13
Collection Date: 6/7/2008 3:01:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 2:34 PM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 2:34 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Cyclohexane	170	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 2:34 PM
Ethylbenzene	3900	500		ug/L	100596	100	6/13/2008 11:46 PM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 2:34 PM
Isopropylbenzene	160	5.0		ug/L	100596	1	6/13/2008 2:34 PM
m,p-Xylene	15000	1000		ug/L	100596	100	6/13/2008 11:46 PM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Methyl tert-butyl ether	6200	500		ug/L	100596	100	6/13/2008 11:46 PM
Methylcyclohexane	92	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
o-Xylene	7100	500		ug/L	100596	100	6/13/2008 11:46 PM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Toluene	41000	5000		ug/L	100596	1000	6/16/2008 11:57 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 2:34 PM
Surr: 4-Bromofluorobenzene	93.8	60.4-132		%REC	100596	1000	6/16/2008 11:57 AM
Surr: 4-Bromofluorobenzene	88.7	60.4-132		%REC	100596	100	6/13/2008 11:46 PM
Surr: 4-Bromofluorobenzene	90.1	60.4-132		%REC	100596	1	6/13/2008 2:34 PM
Surr: Dibromofluoromethane	80.9	76.2-120		%REC	100596	1	6/13/2008 2:34 PM
Surr: Dibromofluoromethane	98.5	76.2-120		%REC	100596	1000	6/16/2008 11:57 AM
Surr: Dibromofluoromethane	90.6	76.2-120		%REC	100596	100	6/13/2008 11:46 PM
Surr: Toluene-d8	101	73.3-124		%REC	100596	1000	6/16/2008 11:57 AM
Surr: Toluene-d8	87.7	73.3-124		%REC	100596	1	6/13/2008 2:34 PM
Surr: Toluene-d8	89.8	73.3-124		%REC	100596	100	6/13/2008 11:46 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-015

Client Sample ID: RW-13
Collection Date: 6/7/2008 3:01:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Isopropyl ether	750	500		ug/L	100596	100	6/13/2008 11:46 PM
tert-Amyl methyl ether	200	5.0		ug/L	100596	1	6/13/2008 2:34 PM
tert-Butyl Alcohol	BRL	5.0		ug/L	100596	1	6/13/2008 2:34 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-016

Client Sample ID: RW-11
Collection Date: 6/7/2008 3:20:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS		**SW8270C**			**(SW3510)**		Analyst: **EI**
Naphthalene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 2:14 PM
Surr: Nitrobenzene-d5	81.8	30.2-123		%REC	100447	1	6/12/2008 2:14 PM
Surr: 2-Fluorobiphenyl	84.1	47.4-115		%REC	100447	1	6/12/2008 2:14 PM
Surr: 4-Terphenyl-d14	56.0	57.5-129	S	%REC	100447	1	6/12/2008 2:14 PM
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
2-Butanone	BRL	50		ug/L	100596	1	6/16/2008 10:01 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/16/2008 10:01 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/16/2008 10:01 AM
Acetone	BRL	50		ug/L	100596	1	6/16/2008 10:01 AM
Benzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-016

Client Sample ID: RW-11
Collection Date: 6/7/2008 3:20:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Chloroethane	BRL	10		ug/L	100596	1	6/16/2008 10:01 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Chloromethane	BRL	10		ug/L	100596	1	6/16/2008 10:01 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Cyclohexane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/16/2008 10:01 AM
Ethylbenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Freon-113	BRL	10		ug/L	100596	1	6/16/2008 10:01 AM
Isopropylbenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
m,p-Xylene	BRL	10		ug/L	100596	1	6/16/2008 10:01 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Methyl tert-butyl ether	24	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Methylcyclohexane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
o-Xylene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Styrene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Toluene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/16/2008 10:01 AM
Surr: 4-Bromofluorobenzene	87.5	60.4-132		%REC	100596	1	6/16/2008 10:01 AM
Surr: Dibromofluoromethane	102	76.2-120		%REC	100596	1	6/16/2008 10:01 AM
Surr: Toluene-d8	95.7	73.3-124		%REC	100596	1	6/16/2008 10:01 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
Isopropyl ether	20	5.0		ug/L	100596	1	6/16/2008 10:01 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/16/2008 10:01 AM
tert-Butyl Alcohol	40	5.0		ug/L	100596	1	6/16/2008 10:01 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-017

Client Sample ID: MW-18
Collection Date: 6/7/2008 3:40:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 3:11 PM
Surr: Nitrobenzene-d5	71.8	30.2-123		%REC	100447	1	6/12/2008 3:11 PM
Surr: 2-Fluorobiphenyl	77.3	47.4-115		%REC	100447	1	6/12/2008 3:11 PM
Surr: 4-Terphenyl-d14	61.4	57.5-129		%REC	100447	1	6/12/2008 3:11 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
2-Butanone	BRL	50		ug/L	100596	1	6/16/2008 10:29 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/16/2008 10:29 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/16/2008 10:29 AM
Acetone	BRL	50		ug/L	100596	1	6/16/2008 10:29 AM
Benzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-017

Client Sample ID: MW-18
Collection Date: 6/7/2008 3:40:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		**Analyst: CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Chloroethane	BRL	10		ug/L	100596	1	6/16/2008 10:29 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Chloromethane	BRL	10		ug/L	100596	1	6/16/2008 10:29 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Cyclohexane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/16/2008 10:29 AM
Ethylbenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Freon-113	BRL	10		ug/L	100596	1	6/16/2008 10:29 AM
Isopropylbenzene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
m,p-Xylene	BRL	10		ug/L	100596	1	6/16/2008 10:29 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Methyl tert-butyl ether	18	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Methylcyclohexane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
o-Xylene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Styrene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Toluene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/16/2008 10:29 AM
Surr: 4-Bromofluorobenzene	82.9	60.4-132		%REC	100596	1	6/16/2008 10:29 AM
Surr: Dibromofluoromethane	103	76.2-120		%REC	100596	1	6/16/2008 10:29 AM
Surr: Toluene-d8	92.4	73.3-124		%REC	100596	1	6/16/2008 10:29 AM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		**Analyst: CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100596	1	6/16/2008 10:29 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-018

Client Sample ID: MW-19
Collection Date: 6/7/2008 4:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS		**SW8270C**			**(SW3510)**		Analyst: **EI**
Naphthalene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 3:41 PM
Surr: Nitrobenzene-d5	83.7	30.2-123		%REC	100447	1	6/12/2008 3:41 PM
Surr: 2-Fluorobiphenyl	86.4	47.4-115		%REC	100447	1	6/12/2008 3:41 PM
Surr: 4-Terphenyl-d14	50.5	57.5-129	S	%REC	100447	1	6/12/2008 3:41 PM
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 2:32 AM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 2:32 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 2:32 AM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 2:32 AM
Benzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-018

Client Sample ID: MW-19
Collection Date: 6/7/2008 4:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 2:32 AM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 2:32 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Cyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 2:32 AM
Ethylbenzene	8.3	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 2:32 AM
Isopropylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
m,p-Xylene	BRL	10		ug/L	100596	1	6/13/2008 2:32 AM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Methyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Methylcyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
o-Xylene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Tetrachloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Toluene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 2:32 AM
Surr: 4-Bromofluorobenzene	87.0	60.4-132		%REC	100596	1	6/13/2008 2:32 AM
Surr: Dibromofluoromethane	91.8	76.2-120		%REC	100596	1	6/13/2008 2:32 AM
Surr: Toluene-d8	89.3	73.3-124		%REC	100596	1	6/13/2008 2:32 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100596	1	6/13/2008 2:32 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-019

Client Sample ID: MW-4R
Collection Date: 6/7/2008 4:20:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
1-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
2-Methylnaphthalene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 4:10 PM
Surr: Nitrobenzene-d5	80.8	30.2-123		%REC	100447	1	6/12/2008 4:10 PM
Surr: 2-Fluorobiphenyl	84.1	47.4-115		%REC	100447	1	6/12/2008 4:10 PM
Surr: 4-Terphenyl-d14	84.1	57.5-129		%REC	100447	1	6/12/2008 4:10 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 4:24 PM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 4:24 PM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 4:24 PM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 4:24 PM
Benzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-019

Client Sample ID: MW-4R
Collection Date: 6/7/2008 4:20:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 4:24 PM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 4:24 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Cyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 4:24 PM
Ethylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 4:24 PM
Isopropylbenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
m,p-Xylene	BRL	10		ug/L	100596	1	6/13/2008 4:24 PM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Methyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Methylcyclohexane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
o-Xylene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Tetrachloroethene	BRL	13		ug/L	100596	1	6/13/2008 4:24 PM
Toluene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 4:24 PM
Surr: 4-Bromofluorobenzene	86.7	60.4-132		%REC	100596	1	6/13/2008 4:24 PM
Surr: Dibromofluoromethane	90.6	76.2-120		%REC	100596	1	6/13/2008 4:24 PM
Surr: Toluene-d8	89.1	73.3-124		%REC	100596	1	6/13/2008 4:24 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
Isopropyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
tert-Amyl methyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 4:24 PM
tert-Butyl Alcohol	60	5.0		ug/L	100596	1	6/13/2008 4:24 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-020

Client Sample ID: RW-06
Collection Date: 6/7/2008 4:40:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS		**SW8270C**			**(SW3510)**		Analyst: **EI**
Naphthalene	180	100		ug/L	100447	10	6/13/2008 6:38 PM
Acenaphthylene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
1-Methylnaphthalene	58	10		ug/L	100447	1	6/12/2008 5:39 PM
2-Methylnaphthalene	94	10		ug/L	100447	1	6/12/2008 5:39 PM
Acenaphthene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Fluorene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Phenanthrene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Anthracene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Pyrene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Benz(a)anthracene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Chrysene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Benzo(a)pyrene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100447	1	6/12/2008 5:39 PM
Surr: Nitrobenzene-d5	78.5	30.2-123		%REC	100447	1	6/12/2008 5:39 PM
Surr: 2-Fluorobiphenyl	80.5	47.4-115		%REC	100447	1	6/12/2008 5:39 PM
Surr: 4-Terphenyl-d14	79.7	57.5-129		%REC	100447	1	6/12/2008 5:39 PM
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,1-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,1-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,2-Dibromoethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,2-Dichloroethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,2-Dichloropropane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
2-Butanone	BRL	50		ug/L	100596	1	6/13/2008 4:52 PM
2-Hexanone	BRL	10		ug/L	100596	1	6/13/2008 4:52 PM
4-Methyl-2-pentanone	BRL	10		ug/L	100596	1	6/13/2008 4:52 PM
Acetone	BRL	50		ug/L	100596	1	6/13/2008 4:52 PM
Benzene	830	50		ug/L	100596	10	6/16/2008 12:47 PM
Bromodichloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-020

Client Sample ID: RW-06
Collection Date: 6/7/2008 4:40:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Bromomethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Carbon disulfide	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Carbon tetrachloride	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Chlorobenzene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Chloroethane	BRL	10		ug/L	100596	1	6/13/2008 4:52 PM
Chloroform	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Chloromethane	BRL	10		ug/L	100596	1	6/13/2008 4:52 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Cyclohexane	67	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Dibromochloromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Dichlorodifluoromethane	BRL	10		ug/L	100596	1	6/13/2008 4:52 PM
Ethylbenzene	550	50		ug/L	100596	10	6/16/2008 12:47 PM
Freon-113	BRL	10		ug/L	100596	1	6/13/2008 4:52 PM
Isopropylbenzene	44	5.0		ug/L	100596	1	6/13/2008 4:52 PM
m,p-Xylene	520	100		ug/L	100596	10	6/16/2008 12:47 PM
Methyl acetate	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Methyl tert-butyl ether	720	50		ug/L	100596	10	6/16/2008 12:47 PM
Methylcyclohexane	46	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Methylene chloride	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
o-Xylene	39	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Styrene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Tetrachloroethene	BRL	9.0		ug/L	100596	1	6/13/2008 4:52 PM
Toluene	7.5	5.0		ug/L	100596	1	6/13/2008 4:52 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Trichloroethene	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Vinyl chloride	BRL	2.0		ug/L	100596	1	6/13/2008 4:52 PM
Surr: 4-Bromofluorobenzene	92.8	60.4-132		%REC	100596	1	6/13/2008 4:52 PM
Surr: 4-Bromofluorobenzene	95.2	60.4-132		%REC	100596	10	6/16/2008 12:47 PM
Surr: Dibromofluoromethane	95.4	76.2-120		%REC	100596	10	6/16/2008 12:47 PM
Surr: Dibromofluoromethane	90.9	76.2-120		%REC	100596	1	6/13/2008 4:52 PM
Surr: Toluene-d8	101	73.3-124		%REC	100596	10	6/16/2008 12:47 PM
Surr: Toluene-d8	91.3	73.3-124		%REC	100596	1	6/13/2008 4:52 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100596	1	6/13/2008 4:52 PM
Isopropyl ether	46	5.0		ug/L	100596	1	6/13/2008 4:52 PM
tert-Amyl methyl ether	31	5.0		ug/L	100596	1	6/13/2008 4:52 PM
tert-Butyl Alcohol	140	5.0		ug/L	100596	1	6/13/2008 4:52 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-021

Client Sample ID: RW-10
Collection Date: 6/7/2008 4:55:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	130	10		ug/L	100538	1	6/13/2008 12:55 PM
Acenaphthylene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
1-Methylnaphthalene	24	10		ug/L	100538	1	6/13/2008 12:55 PM
2-Methylnaphthalene	35	10		ug/L	100538	1	6/13/2008 12:55 PM
Acenaphthene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Fluorene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Phenanthrene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Anthracene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Pyrene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Benz(a)anthracene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Chrysene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Benzo(a)pyrene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100538	1	6/13/2008 12:55 PM
Surr: Nitrobenzene-d5	99.0	30.2-123		%REC	100538	1	6/13/2008 12:55 PM
Surr: 2-Fluorobiphenyl	87.1	47.4-115		%REC	100538	1	6/13/2008 12:55 PM
Surr: 4-Terphenyl-d14	85.6	57.5-129		%REC	100538	1	6/13/2008 12:55 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,2-Dichloroethane	83	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
2-Butanone	BRL	50		ug/L	100597	1	6/14/2008 2:30 AM
2-Hexanone	BRL	10		ug/L	100597	1	6/14/2008 2:30 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/14/2008 2:30 AM
Acetone	BRL	50		ug/L	100597	1	6/14/2008 2:30 AM
Benzene	7000	500		ug/L	100597	100	6/13/2008 8:05 PM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-021

Client Sample ID: RW-10
Collection Date: 6/7/2008 4:55:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Bromomethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Chloroethane	BRL	10		ug/L	100597	1	6/14/2008 2:30 AM
Chloroform	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Chloromethane	BRL	10		ug/L	100597	1	6/14/2008 2:30 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Cyclohexane	75	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/14/2008 2:30 AM
Ethylbenzene	1500	500		ug/L	100597	100	6/13/2008 8:05 PM
Freon-113	BRL	10		ug/L	100597	1	6/14/2008 2:30 AM
Isopropylbenzene	64	5.0		ug/L	100597	1	6/14/2008 2:30 AM
m,p-Xylene	4000	1000		ug/L	100597	100	6/13/2008 8:05 PM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Methyl tert-butyl ether	3800	500		ug/L	100597	100	6/13/2008 8:05 PM
Methylcyclohexane	40	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
o-Xylene	1800	500		ug/L	100597	100	6/13/2008 8:05 PM
Styrene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Tetrachloroethene	BRL	5.0		ug/L	100597	1	6/12/2008 9:01 PM
Toluene	2800	500		ug/L	100597	100	6/13/2008 8:05 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/14/2008 2:30 AM
Surr: 4-Bromofluorobenzene	92.0	60.4-132		%REC	100597	1	6/14/2008 2:30 AM
Surr: 4-Bromofluorobenzene	90.7	60.4-132		%REC	100597	100	6/13/2008 8:05 PM
Surr: 4-Bromofluorobenzene	89.9	60.4-132		%REC	100597	1	6/12/2008 9:01 PM
Surr: Dibromofluoromethane	88.3	76.2-120		%REC	100597	100	6/13/2008 8:05 PM
Surr: Dibromofluoromethane	84.4	76.2-120		%REC	100597	1	6/14/2008 2:30 AM
Surr: Dibromofluoromethane	86.9	76.2-120		%REC	100597	1	6/12/2008 9:01 PM
Surr: Toluene-d8	89.5	73.3-124		%REC	100597	100	6/13/2008 8:05 PM
Surr: Toluene-d8	93.4	73.3-124		%REC	100597	1	6/12/2008 9:01 PM
Surr: Toluene-d8	91.9	73.3-124		%REC	100597	1	6/14/2008 2:30 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/14/2008 2:30 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-021

Client Sample ID: RW-10
Collection Date: 6/7/2008 4:55:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Isopropyl ether	450	400		ug/L	100597	100	6/13/2008 8:05 PM
tert-Amyl methyl ether	450	400		ug/L	100597	100	6/13/2008 8:05 PM
tert-Butyl Alcohol	2800	500		ug/L	100597	100	6/13/2008 8:05 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-022

Client Sample ID: MW-11
Collection Date: 6/8/2008 10:29:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Acenaphthylene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
1-Methylnaphthalene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
2-Methylnaphthalene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Acenaphthene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Fluorene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Phenanthrene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Anthracene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Pyrene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Benz(a)anthracene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Chrysene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Benzo(a)pyrene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100538	1	6/13/2008 1:21 PM
Surr: Nitrobenzene-d5	97.2	30.2-123		%REC	100538	1	6/13/2008 1:21 PM
Surr: 2-Fluorobiphenyl	90.0	47.4-115		%REC	100538	1	6/13/2008 1:21 PM
Surr: 4-Terphenyl-d14	81.4	57.5-129		%REC	100538	1	6/13/2008 1:21 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
2-Butanone	BRL	50		ug/L	100597	1	6/14/2008 12:41 AM
2-Hexanone	BRL	10		ug/L	100597	1	6/14/2008 12:41 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/14/2008 12:41 AM
Acetone	BRL	50		ug/L	100597	1	6/14/2008 12:41 AM
Benzene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-022

Client Sample ID: MW-11
Collection Date: 6/8/2008 10:29:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Bromoform	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Bromomethane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Chloroethane	BRL	10		ug/L	100597	1	6/14/2008 12:41 AM
Chloroform	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Chloromethane	BRL	10		ug/L	100597	1	6/14/2008 12:41 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Cyclohexane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/14/2008 12:41 AM
Ethylbenzene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Freon-113	BRL	10		ug/L	100597	1	6/14/2008 12:41 AM
Isopropylbenzene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
m,p-Xylene	BRL	10		ug/L	100597	1	6/14/2008 12:41 AM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Methyl tert-butyl ether	12	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Methylcyclohexane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
o-Xylene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Styrene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Tetrachloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Toluene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/14/2008 12:41 AM
Surr: 4-Bromofluorobenzene	87.6	60.4-132		%REC	100597	1	6/14/2008 12:41 AM
Surr: Dibromofluoromethane	88.4	76.2-120		%REC	100597	1	6/14/2008 12:41 AM
Surr: Toluene-d8	88.4	73.3-124		%REC	100597	1	6/14/2008 12:41 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
Isopropyl ether	44	5.0		ug/L	100597	1	6/14/2008 12:41 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100597	1	6/14/2008 12:41 AM
tert-Butyl Alcohol	1200	5.0		ug/L	100597	1	6/14/2008 12:41 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-023

Client Sample ID: RW-01
Collection Date: 6/8/2008 11:50:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: EI
Naphthalene	230	50		ug/L	100538	5	6/13/2008 6:24 PM
Acenaphthylene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
1-Methylnaphthalene	35	10		ug/L	100538	1	6/13/2008 1:47 PM
2-Methylnaphthalene	51	10		ug/L	100538	1	6/13/2008 1:47 PM
Acenaphthene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Fluorene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Phenanthrene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Anthracene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Pyrene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Benz(a)anthracene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Chrysene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Benzo(a)pyrene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100538	1	6/13/2008 1:47 PM
Surr: Nitrobenzene-d5	102	30.2-123		%REC	100538	1	6/13/2008 1:47 PM
Surr: 2-Fluorobiphenyl	87.8	47.4-115		%REC	100538	1	6/13/2008 1:47 PM
Surr: 4-Terphenyl-d14	85.1	57.5-129		%REC	100538	1	6/13/2008 1:47 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: CAB
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
2-Butanone	BRL	50		ug/L	100597	1	6/14/2008 2:03 AM
2-Hexanone	BRL	10		ug/L	100597	1	6/14/2008 2:03 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/14/2008 2:03 AM
Acetone	BRL	50		ug/L	100597	1	6/14/2008 2:03 AM
Benzene	6900	250		ug/L	100597	50	6/14/2008 12:13 AM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-023

Client Sample ID: RW-01
Collection Date: 6/8/2008 11:50:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Bromomethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Chloroethane	BRL	10		ug/L	100597	1	6/14/2008 2:03 AM
Chloroform	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Chloromethane	BRL	10		ug/L	100597	1	6/14/2008 2:03 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Cyclohexane	45	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/14/2008 2:03 AM
Ethylbenzene	790	250		ug/L	100597	50	6/14/2008 12:13 AM
Freon-113	BRL	10		ug/L	100597	1	6/14/2008 2:03 AM
Isopropylbenzene	35	5.0		ug/L	100597	1	6/14/2008 2:03 AM
m,p-Xylene	3700	500		ug/L	100597	50	6/14/2008 12:13 AM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Methyl tert-butyl ether	15000	2500		ug/L	100597	500	6/16/2008 12:22 PM
Methylcyclohexane	14	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
o-Xylene	1900	250		ug/L	100597	50	6/14/2008 12:13 AM
Styrene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Tetrachloroethene	BRL	5.0		ug/L	100597	1	6/12/2008 9:57 PM
Toluene	9600	250		ug/L	100597	50	6/14/2008 12:13 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/14/2008 2:03 AM
Surr: 4-Bromofluorobenzene	87.1	60.4-132		%REC	100597	500	6/16/2008 12:22 PM
Surr: 4-Bromofluorobenzene	91.9	60.4-132		%REC	100597	50	6/14/2008 12:13 AM
Surr: 4-Bromofluorobenzene	90.4	60.4-132		%REC	100597	1	6/12/2008 9:57 PM
Surr: 4-Bromofluorobenzene	88.2	60.4-132		%REC	100597	1	6/14/2008 2:03 AM
Surr: Dibromofluoromethane	84.8	76.2-120		%REC	100597	1	6/12/2008 9:57 PM
Surr: Dibromofluoromethane	94.0	76.2-120		%REC	100597	500	6/16/2008 12:22 PM
Surr: Dibromofluoromethane	87.8	76.2-120		%REC	100597	1	6/14/2008 2:03 AM
Surr: Dibromofluoromethane	90.6	76.2-120		%REC	100597	50	6/14/2008 12:13 AM
Surr: Toluene-d8	95.1	73.3-124		%REC	100597	1	6/12/2008 9:57 PM
Surr: Toluene-d8	100	73.3-124		%REC	100597	500	6/16/2008 12:22 PM
Surr: Toluene-d8	90.1	73.3-124		%REC	100597	50	6/14/2008 12:13 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-023

Client Sample ID: RW-01
Collection Date: 6/8/2008 11:50:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Surr: Toluene-d8	93.6	73.3-124		%REC	100597	1	6/14/2008 2:03 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/14/2008 2:03 AM
Isopropyl ether	570	250		ug/L	100597	50	6/14/2008 12:13 AM
tert-Amyl methyl ether	1100	250		ug/L	100597	50	6/14/2008 12:13 AM
tert-Butyl Alcohol	5100	250		ug/L	100597	50	6/14/2008 12:13 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-024

Client Sample ID: RW-02
Collection Date: 6/8/2008 12:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS		**SW8270C**			**(SW3510)**		Analyst: **EI**
Naphthalene	260	50		ug/L	100538	5	6/13/2008 6:51 PM
Acenaphthylene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
1-Methylnaphthalene	36	10		ug/L	100538	1	6/13/2008 2:13 PM
2-Methylnaphthalene	64	10		ug/L	100538	1	6/13/2008 2:13 PM
Acenaphthene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Fluorene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Phenanthrene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Anthracene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Pyrene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Benz(a)anthracene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Chrysene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Benzo(a)pyrene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100538	1	6/13/2008 2:13 PM
Surr: Nitrobenzene-d5	95.9	30.2-123		%REC	100538	1	6/13/2008 2:13 PM
Surr: 2-Fluorobiphenyl	85.9	47.4-115		%REC	100538	1	6/13/2008 2:13 PM
Surr: 4-Terphenyl-d14	92.8	57.5-129		%REC	100538	1	6/13/2008 2:13 PM
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
2-Butanone	880	50	E	ug/L	100597	1	6/14/2008 2:58 AM
2-Hexanone	330	10		ug/L	100597	1	6/14/2008 2:58 AM
4-Methyl-2-pentanone	120	10		ug/L	100597	1	6/14/2008 2:58 AM
Acetone	1400	50	E	ug/L	100597	1	6/14/2008 2:58 AM
Benzene	5100	500		ug/L	100597	100	6/13/2008 7:38 PM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-024

Client Sample ID: RW-02
Collection Date: 6/8/2008 12:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Bromomethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Chloroethane	BRL	10		ug/L	100597	1	6/14/2008 2:58 AM
Chloroform	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Chloromethane	BRL	10		ug/L	100597	1	6/14/2008 2:58 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Cyclohexane	18	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/14/2008 2:58 AM
Ethylbenzene	1600	500		ug/L	100597	100	6/13/2008 7:38 PM
Freon-113	BRL	10		ug/L	100597	1	6/14/2008 2:58 AM
Isopropylbenzene	40	5.0		ug/L	100597	1	6/14/2008 2:58 AM
m,p-Xylene	5100	1000		ug/L	100597	100	6/13/2008 7:38 PM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Methyl tert-butyl ether	7500	500		ug/L	100597	100	6/13/2008 7:38 PM
Methylcyclohexane	5.3	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
o-Xylene	2500	500		ug/L	100597	100	6/13/2008 7:38 PM
Styrene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Tetrachloroethene	BRL	5.0		ug/L	100597	1	6/12/2008 8:34 PM
Toluene	5400	500		ug/L	100597	100	6/13/2008 7:38 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/14/2008 2:58 AM
Surr: 4-Bromofluorobenzene	86.6	60.4-132		%REC	100597	100	6/13/2008 7:38 PM
Surr: 4-Bromofluorobenzene	92.7	60.4-132		%REC	100597	1	6/14/2008 2:58 AM
Surr: 4-Bromofluorobenzene	90.5	60.4-132		%REC	100597	1	6/12/2008 8:34 PM
Surr: Dibromofluoromethane	88.2	76.2-120		%REC	100597	1	6/14/2008 2:58 AM
Surr: Dibromofluoromethane	89.1	76.2-120		%REC	100597	100	6/13/2008 7:38 PM
Surr: Dibromofluoromethane	85.8	76.2-120		%REC	100597	1	6/12/2008 8:34 PM
Surr: Toluene-d8	88.1	73.3-124		%REC	100597	100	6/13/2008 7:38 PM
Surr: Toluene-d8	91.1	73.3-124		%REC	100597	1	6/14/2008 2:58 AM
Surr: Toluene-d8	95.8	73.3-124		%REC	100597	1	6/12/2008 8:34 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/14/2008 2:58 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-024

Client Sample ID: RW-02
Collection Date: 6/8/2008 12:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Isopropyl ether	200	5.0		ug/L	100597	1	6/14/2008 2:58 AM
tert-Amyl methyl ether	1300	500		ug/L	100597	100	6/13/2008 7:38 PM
tert-Butyl Alcohol	34000	500		ug/L	100597	100	6/13/2008 7:38 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-025

Client Sample ID: MW-21
Collection Date: 6/8/2008 1:40:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	1200	100		ug/L	100538	10	6/13/2008 7:17 PM
Acenaphthylene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
1-Methylnaphthalene	350	100		ug/L	100538	10	6/13/2008 7:17 PM
2-Methylnaphthalene	670	100		ug/L	100538	10	6/13/2008 7:17 PM
Acenaphthene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Fluorene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Phenanthrene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Anthracene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Pyrene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Benz(a)anthracene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Chrysene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Benzo(a)pyrene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100538	1	6/13/2008 2:39 PM
Surr: Nitrobenzene-d5	99.5	30.2-123		%REC	100538	1	6/13/2008 2:39 PM
Surr: 2-Fluorobiphenyl	84.7	47.4-115		%REC	100538	1	6/13/2008 2:39 PM
Surr: 4-Terphenyl-d14	91.6	57.5-129		%REC	100538	1	6/13/2008 2:39 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,2-Dichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
2-Butanone	51	50		ug/L	100597	1	6/13/2008 5:20 PM
2-Hexanone	BRL	10		ug/L	100597	1	6/13/2008 5:20 PM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/13/2008 5:20 PM
Acetone	BRL	50		ug/L	100597	1	6/13/2008 5:20 PM
Benzene	10000	500		ug/L	100597	100	6/16/2008 11:52 AM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-025

Client Sample ID: MW-21
Collection Date: 6/8/2008 1:40:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Bromoform	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Bromomethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Chloroethane	BRL	10		ug/L	100597	1	6/13/2008 5:20 PM
Chloroform	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Chloromethane	BRL	10		ug/L	100597	1	6/13/2008 5:20 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Cyclohexane	170	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/13/2008 5:20 PM
Ethylbenzene	4400	500		ug/L	100597	100	6/16/2008 11:52 AM
Freon-113	BRL	10		ug/L	100597	1	6/13/2008 5:20 PM
Isopropylbenzene	160	5.0		ug/L	100597	1	6/13/2008 5:20 PM
m,p-Xylene	16000	1000		ug/L	100597	100	6/16/2008 11:52 AM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Methyl tert-butyl ether	9200	500		ug/L	100597	100	6/16/2008 11:52 AM
Methylcyclohexane	120	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
o-Xylene	7800	500		ug/L	100597	100	6/16/2008 11:52 AM
Styrene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Tetrachloroethene	BRL	6.0		ug/L	100597	1	6/13/2008 5:20 PM
Toluene	6600	500		ug/L	100597	100	6/16/2008 11:52 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/13/2008 5:20 PM
Surr: 4-Bromofluorobenzene	91.8	60.4-132		%REC	100597	100	6/16/2008 11:52 AM
Surr: 4-Bromofluorobenzene	92.3	60.4-132		%REC	100597	1	6/13/2008 5:20 PM
Surr: Dibromofluoromethane	87.2	76.2-120		%REC	100597	1	6/13/2008 5:20 PM
Surr: Dibromofluoromethane	94.3	76.2-120		%REC	100597	100	6/16/2008 11:52 AM
Surr: Toluene-d8	91.1	73.3-124		%REC	100597	100	6/16/2008 11:52 AM
Surr: Toluene-d8	94.6	73.3-124		%REC	100597	1	6/13/2008 5:20 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 5:20 PM
Isopropyl ether	160	5.0		ug/L	100597	1	6/13/2008 5:20 PM
tert-Amyl methyl ether	1400	500		ug/L	100597	100	6/16/2008 11:52 AM
tert-Butyl Alcohol	5200	500		ug/L	100597	100	6/16/2008 11:52 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-026

Client Sample ID: RW-08
Collection Date: 6/8/2008 2:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	240	50		ug/L	100538	5	6/13/2008 5:05 PM
Acenaphthylene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
1-Methylnaphthalene	30	10		ug/L	100538	1	6/13/2008 11:37 AM
2-Methylnaphthalene	49	10		ug/L	100538	1	6/13/2008 11:37 AM
Acenaphthene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Fluorene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Phenanthrene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Anthracene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Pyrene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Benz(a)anthracene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Chrysene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Benzo(b)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Benzo(k)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Benzo(a)pyrene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Dibenz(a,h)anthracene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Benzo(g,h,i)perylene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100538	1	6/13/2008 11:37 AM
Surr: Nitrobenzene-d5	102	30.2-123		%REC	100538	1	6/13/2008 11:37 AM
Surr: 2-Fluorobiphenyl	91.2	47.4-115		%REC	100538	1	6/13/2008 11:37 AM
Surr: 4-Terphenyl-d14	103	57.5-129		%REC	100538	1	6/13/2008 11:37 AM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,2-Dichloroethane	87	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
2-Butanone	250	50		ug/L	100597	1	6/13/2008 5:47 PM
2-Hexanone	BRL	10		ug/L	100597	1	6/13/2008 5:47 PM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/13/2008 5:47 PM
Acetone	BRL	50		ug/L	100597	1	6/13/2008 5:47 PM
Benzene	11000	500		ug/L	100597	100	6/16/2008 12:20 PM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-026

Client Sample ID: RW-08
Collection Date: 6/8/2008 2:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Bromoform	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Bromomethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Chloroethane	BRL	10		ug/L	100597	1	6/13/2008 5:47 PM
Chloroform	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Chloromethane	BRL	10		ug/L	100597	1	6/13/2008 5:47 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Cyclohexane	53	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/13/2008 5:47 PM
Ethylbenzene	1200	500		ug/L	100597	100	6/16/2008 12:20 PM
Freon-113	BRL	10		ug/L	100597	1	6/13/2008 5:47 PM
Isopropylbenzene	52	5.0		ug/L	100597	1	6/13/2008 5:47 PM
m,p-Xylene	4700	1000		ug/L	100597	100	6/16/2008 12:20 PM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Methyl tert-butyl ether	69000	5000		ug/L	100597	1000	6/16/2008 5:47 PM
Methylcyclohexane	38	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
o-Xylene	2300	500		ug/L	100597	100	6/16/2008 12:20 PM
Styrene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Tetrachloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Toluene	14000	500		ug/L	100597	100	6/16/2008 12:20 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/13/2008 5:47 PM
Surr: 4-Bromofluorobenzene	90.4	60.4-132		%REC	100597	1	6/13/2008 5:47 PM
Surr: 4-Bromofluorobenzene	88.6	60.4-132		%REC	100597	100	6/16/2008 12:20 PM
Surr: 4-Bromofluorobenzene	90.2	60.4-132		%REC	100597	1000	6/16/2008 5:47 PM
Surr: Dibromofluoromethane	92.4	76.2-120		%REC	100597	1000	6/16/2008 5:47 PM
Surr: Dibromofluoromethane	84.8	76.2-120		%REC	100597	1	6/13/2008 5:47 PM
Surr: Dibromofluoromethane	93.0	76.2-120		%REC	100597	100	6/16/2008 12:20 PM
Surr: Toluene-d8	100	73.3-124		%REC	100597	1000	6/16/2008 5:47 PM
Surr: Toluene-d8	91.4	73.3-124		%REC	100597	100	6/16/2008 12:20 PM
Surr: Toluene-d8	92.2	73.3-124		%REC	100597	1	6/13/2008 5:47 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		**Analyst: CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT:	Stantec Consulting	**Client Sample ID:**	RW-08
Project:	N. Peachtree GUST EZ Serve 8102	**Collection Date:**	6/8/2008 2:30:00 PM
Lab ID:	0806534-026	**Matrix:**	AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Isopropyl ether	1900	500		ug/L	100597	100	6/16/2008 12:20 PM
tert-Amyl methyl ether	4500	500		ug/L	100597	100	6/16/2008 12:20 PM
tert-Butyl Alcohol	BRL	5.0		ug/L	100597	1	6/13/2008 5:47 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-027

Client Sample ID: MW-13
Collection Date: 6/8/2008 4:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Acenaphthylene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
1-Methylnaphthalene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
2-Methylnaphthalene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Acenaphthene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Fluorene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Phenanthrene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Anthracene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Pyrene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Benz(a)anthracene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Chrysene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Benzo(a)pyrene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100538	1	6/13/2008 3:06 PM
Surr: Nitrobenzene-d5	100	30.2-123		%REC	100538	1	6/13/2008 3:06 PM
Surr: 2-Fluorobiphenyl	89.1	47.4-115		%REC	100538	1	6/13/2008 3:06 PM
Surr: 4-Terphenyl-d14	62.2	57.5-129		%REC	100538	1	6/13/2008 3:06 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,2-Dichloroethane	24	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
2-Butanone	BRL	50		ug/L	100597	1	6/16/2008 10:56 AM
2-Hexanone	BRL	10		ug/L	100597	1	6/16/2008 10:56 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/16/2008 10:56 AM
Acetone	BRL	50		ug/L	100597	1	6/16/2008 10:56 AM
Benzene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-027

Client Sample ID: MW-13
Collection Date: 6/8/2008 4:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Bromomethane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Chloroethane	BRL	10		ug/L	100597	1	6/16/2008 10:56 AM
Chloroform	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Chloromethane	BRL	10		ug/L	100597	1	6/16/2008 10:56 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Cyclohexane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/16/2008 10:56 AM
Ethylbenzene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Freon-113	BRL	10		ug/L	100597	1	6/16/2008 10:56 AM
Isopropylbenzene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
m,p-Xylene	BRL	10		ug/L	100597	1	6/16/2008 10:56 AM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Methyl tert-butyl ether	380	50		ug/L	100597	10	6/16/2008 1:17 PM
Methylcyclohexane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
o-Xylene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Styrene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Tetrachloroethene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Toluene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/16/2008 10:56 AM
Surr: 4-Bromofluorobenzene	84.5	60.4-132		%REC	100597	10	6/16/2008 1:17 PM
Surr: 4-Bromofluorobenzene	82.7	60.4-132		%REC	100597	1	6/16/2008 10:56 AM
Surr: Dibromofluoromethane	95.9	76.2-120		%REC	100597	10	6/16/2008 1:17 PM
Surr: Dibromofluoromethane	100	76.2-120		%REC	100597	1	6/16/2008 10:56 AM
Surr: Toluene-d8	92.5	73.3-124		%REC	100597	1	6/16/2008 10:56 AM
Surr: Toluene-d8	100	73.3-124		%REC	100597	10	6/16/2008 1:17 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
Isopropyl ether	44	5.0		ug/L	100597	1	6/16/2008 10:56 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100597	1	6/16/2008 10:56 AM
tert-Butyl Alcohol	130	5.0		ug/L	100597	1	6/16/2008 10:56 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-028

Client Sample ID: MW-14
Collection Date: 6/8/2008 5:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Acenaphthylene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
1-Methylnaphthalene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
2-Methylnaphthalene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Acenaphthene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Fluorene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Phenanthrene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Anthracene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Pyrene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Benz(a)anthracene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Chrysene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Benzo(a)pyrene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100538	1	6/13/2008 3:33 PM
Surr: Nitrobenzene-d5	101	30.2-123		%REC	100538	1	6/13/2008 3:33 PM
Surr: 2-Fluorobiphenyl	93.4	47.4-115		%REC	100538	1	6/13/2008 3:33 PM
Surr: 4-Terphenyl-d14	95.1	57.5-129		%REC	100538	1	6/13/2008 3:33 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
2-Butanone	BRL	50		ug/L	100597	1	6/16/2008 11:24 AM
2-Hexanone	BRL	10		ug/L	100597	1	6/16/2008 11:24 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/16/2008 11:24 AM
Acetone	BRL	50		ug/L	100597	1	6/16/2008 11:24 AM
Benzene	140	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-028

Client Sample ID: MW-14
Collection Date: 6/8/2008 5:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Bromomethane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Chloroethane	BRL	10		ug/L	100597	1	6/16/2008 11:24 AM
Chloroform	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Chloromethane	BRL	10		ug/L	100597	1	6/16/2008 11:24 AM
cis-1,2-Dichloroethene	2400	50	E	ug/L	100597	10	6/16/2008 1:37 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Cyclohexane	18	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/16/2008 11:24 AM
Ethylbenzene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Freon-113	BRL	10		ug/L	100597	1	6/16/2008 11:24 AM
Isopropylbenzene	7.8	5.0		ug/L	100597	1	6/16/2008 11:24 AM
m,p-Xylene	BRL	10		ug/L	100597	1	6/16/2008 11:24 AM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Methyl tert-butyl ether	370	50		ug/L	100597	10	6/16/2008 1:37 PM
Methylcyclohexane	23	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
o-Xylene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Styrene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Tetrachloroethene	220	50		ug/L	100597	10	6/16/2008 1:37 PM
Toluene	8.6	5.0		ug/L	100597	1	6/16/2008 11:24 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Trichloroethene	230	50		ug/L	100597	10	6/16/2008 1:37 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Vinyl chloride	340	20		ug/L	100597	10	6/16/2008 1:37 PM
Surr: 4-Bromofluorobenzene	88.2	60.4-132		%REC	100597	10	6/16/2008 1:37 PM
Surr: 4-Bromofluorobenzene	87.0	60.4-132		%REC	100597	1	6/16/2008 11:24 AM
Surr: Dibromofluoromethane	95.0	76.2-120		%REC	100597	10	6/16/2008 1:37 PM
Surr: Dibromofluoromethane	97.5	76.2-120		%REC	100597	1	6/16/2008 11:24 AM
Surr: Toluene-d8	100	73.3-124		%REC	100597	10	6/16/2008 1:37 PM
Surr: Toluene-d8	92.7	73.3-124		%REC	100597	1	6/16/2008 11:24 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/16/2008 11:24 AM
Isopropyl ether	7.8	5.0		ug/L	100597	1	6/16/2008 11:24 AM
tert-Amyl methyl ether	9.3	5.0		ug/L	100597	1	6/16/2008 11:24 AM
tert-Butyl Alcohol	470	5.0		ug/L	100597	1	6/16/2008 11:24 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-029

Client Sample ID: RW-09
Collection Date: 6/8/2008 4:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
POLYAROMATIC HYDROCARBONS			**SW8270C**		**(SW3510)**		Analyst: **EI**
Naphthalene	370	50		ug/L	100538	5	6/13/2008 7:43 PM
Acenaphthylene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
1-Methylnaphthalene	50	10		ug/L	100538	1	6/13/2008 3:59 PM
2-Methylnaphthalene	76	10		ug/L	100538	1	6/13/2008 3:59 PM
Acenaphthene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Fluorene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Phenanthrene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Anthracene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Pyrene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Benz(a)anthracene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Chrysene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Benzo(b)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Benzo(k)fluoranthene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Benzo(a)pyrene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Dibenz(a,h)anthracene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Benzo(g,h,i)perylene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	100538	1	6/13/2008 3:59 PM
Surr: Nitrobenzene-d5	104	30.2-123		%REC	100538	1	6/13/2008 3:59 PM
Surr: 2-Fluorobiphenyl	83.0	47.4-115		%REC	100538	1	6/13/2008 3:59 PM
Surr: 4-Terphenyl-d14	95.4	57.5-129		%REC	100538	1	6/13/2008 3:59 PM
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,2-Dichloroethane	260	250		ug/L	100597	50	6/16/2008 12:48 PM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
2-Butanone	77	50		ug/L	100597	1	6/13/2008 7:10 PM
2-Hexanone	BRL	10		ug/L	100597	1	6/13/2008 7:10 PM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/13/2008 7:10 PM
Acetone	BRL	50		ug/L	100597	1	6/13/2008 7:10 PM
Benzene	17000	2500		ug/L	100597	500	6/16/2008 5:22 PM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-029

Client Sample ID: RW-09
Collection Date: 6/8/2008 4:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Bromoform	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Bromomethane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Chloroethane	BRL	10		ug/L	100597	1	6/13/2008 7:10 PM
Chloroform	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Chloromethane	BRL	10		ug/L	100597	1	6/13/2008 7:10 PM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Cyclohexane	90	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/13/2008 7:10 PM
Ethylbenzene	2500	250		ug/L	100597	50	6/16/2008 12:48 PM
Freon-113	BRL	10		ug/L	100597	1	6/13/2008 7:10 PM
Isopropylbenzene	150	5.0		ug/L	100597	1	6/13/2008 7:10 PM
m,p-Xylene	7100	500		ug/L	100597	50	6/16/2008 12:48 PM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Methyl tert-butyl ether	25000	2500		ug/L	100597	500	6/16/2008 5:22 PM
Methylcyclohexane	59	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
o-Xylene	4200	250		ug/L	100597	50	6/16/2008 12:48 PM
Styrene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Tetrachloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Toluene	26000	2500		ug/L	100597	500	6/16/2008 5:22 PM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/13/2008 7:10 PM
Surr: 4-Bromofluorobenzene	91.7	60.4-132		%REC	100597	50	6/16/2008 12:48 PM
Surr: 4-Bromofluorobenzene	90.5	60.4-132		%REC	100597	500	6/16/2008 5:22 PM
Surr: 4-Bromofluorobenzene	90.5	60.4-132		%REC	100597	1	6/13/2008 7:10 PM
Surr: Dibromofluoromethane	85.6	76.2-120		%REC	100597	1	6/13/2008 7:10 PM
Surr: Dibromofluoromethane	92.5	76.2-120		%REC	100597	50	6/16/2008 12:48 PM
Surr: Dibromofluoromethane	93.3	76.2-120		%REC	100597	500	6/16/2008 5:22 PM
Surr: Toluene-d8	101	73.3-124		%REC	100597	500	6/16/2008 5:22 PM
Surr: Toluene-d8	92.6	73.3-124		%REC	100597	1	6/13/2008 7:10 PM
Surr: Toluene-d8	90.1	73.3-124		%REC	100597	50	6/16/2008 12:48 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 7:10 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-029

Client Sample ID: RW-09
Collection Date: 6/8/2008 4:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
Isopropyl ether	390	5.0		ug/L	100597	1	6/13/2008 7:10 PM
tert-Amyl methyl ether	340	5.0		ug/L	100597	1	6/13/2008 7:10 PM
tert-Butyl Alcohol	16000	250		ug/L	100597	50	6/16/2008 12:48 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-030

Client Sample ID: TRIP BLANK 1
Collection Date: 6/8/2008
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
2-Butanone	BRL	50		ug/L	100597	1	6/13/2008 9:58 AM
2-Hexanone	BRL	10		ug/L	100597	1	6/13/2008 9:58 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/13/2008 9:58 AM
Acetone	BRL	50		ug/L	100597	1	6/13/2008 9:58 AM
Benzene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Bromoform	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Bromomethane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Chloroethane	BRL	10		ug/L	100597	1	6/13/2008 9:58 AM
Chloroform	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Chloromethane	BRL	10		ug/L	100597	1	6/13/2008 9:58 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Cyclohexane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/13/2008 9:58 AM
Ethylbenzene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Freon-113	BRL	10		ug/L	100597	1	6/13/2008 9:58 AM
Isopropylbenzene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
m,p-Xylene	BRL	10		ug/L	100597	1	6/13/2008 9:58 AM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Methyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Methylcyclohexane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
o-Xylene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank
- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-030

Client Sample ID: TRIP BLANK 1
Collection Date: 6/8/2008
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Styrene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Tetrachloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Toluene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/13/2008 9:58 AM
Surr: 4-Bromofluorobenzene	88.9	60.4-132		%REC	100597	1	6/13/2008 9:58 AM
Surr: Dibromofluoromethane	96.0	76.2-120		%REC	100597	1	6/13/2008 9:58 AM
Surr: Toluene-d8	91.1	73.3-124		%REC	100597	1	6/13/2008 9:58 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
Isopropyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100597	1	6/13/2008 9:58 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
B	Analyte detected in the associated Method Blank
E	Estimated (Value above quantitation range)
S	Surrogate Recovery outside accepted recovery limits
Narr	See Case Narrative
NC	Not Confirmed

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-031

Client Sample ID: TRIP BLANK 2
Collection Date: 6/8/2008
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
2-Butanone	BRL	50		ug/L	100597	1	6/13/2008 10:26 AM
2-Hexanone	BRL	10		ug/L	100597	1	6/13/2008 10:26 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/13/2008 10:26 AM
Acetone	BRL	50		ug/L	100597	1	6/13/2008 10:26 AM
Benzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Bromoform	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Bromomethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Chloroethane	BRL	10		ug/L	100597	1	6/13/2008 10:26 AM
Chloroform	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Chloromethane	BRL	10		ug/L	100597	1	6/13/2008 10:26 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Cyclohexane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/13/2008 10:26 AM
Ethylbenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Freon-113	BRL	10		ug/L	100597	1	6/13/2008 10:26 AM
Isopropylbenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
m,p-Xylene	BRL	10		ug/L	100597	1	6/13/2008 10:26 AM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Methyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Methylcyclohexane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
o-Xylene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-031

Client Sample ID: TRIP BLANK 2
Collection Date: 6/8/2008
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Styrene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Tetrachloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Toluene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/13/2008 10:26 AM
Surr: 4-Bromofluorobenzene	85.8	60.4-132		%REC	100597	1	6/13/2008 10:26 AM
Surr: Dibromofluoromethane	96.6	76.2-120		%REC	100597	1	6/13/2008 10:26 AM
Surr: Toluene-d8	89.7	73.3-124		%REC	100597	1	6/13/2008 10:26 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
Isopropyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100597	1	6/13/2008 10:26 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-032

Client Sample ID: TRIP BLANK 3
Collection Date: 6/8/2008
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			**SW8260B**		**(SW5030B)**		Analyst: **CAB**
1,1,1-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,1,2-Trichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,1-Dichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,1-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,2-Dibromoethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,2-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,2-Dichloroethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,2-Dichloropropane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,3-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
1,4-Dichlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
2-Butanone	BRL	50		ug/L	100597	1	6/13/2008 10:53 AM
2-Hexanone	BRL	10		ug/L	100597	1	6/13/2008 10:53 AM
4-Methyl-2-pentanone	BRL	10		ug/L	100597	1	6/13/2008 10:53 AM
Acetone	BRL	50		ug/L	100597	1	6/13/2008 10:53 AM
Benzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Bromodichloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Bromoform	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Bromomethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Carbon disulfide	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Carbon tetrachloride	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Chlorobenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Chloroethane	BRL	10		ug/L	100597	1	6/13/2008 10:53 AM
Chloroform	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Chloromethane	BRL	10		ug/L	100597	1	6/13/2008 10:53 AM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Cyclohexane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Dibromochloromethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Dichlorodifluoromethane	BRL	10		ug/L	100597	1	6/13/2008 10:53 AM
Ethylbenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Freon-113	BRL	10		ug/L	100597	1	6/13/2008 10:53 AM
Isopropylbenzene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
m,p-Xylene	BRL	10		ug/L	100597	1	6/13/2008 10:53 AM
Methyl acetate	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Methyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Methylcyclohexane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Methylene chloride	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
o-Xylene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *07-Aug-08*

CLIENT: Stantec Consulting
Project: N. Peachtree GUST EZ Serve 8102
Lab ID: 0806534-032

Client Sample ID: TRIP BLANK 3
Collection Date: 6/8/2008
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Styrene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Tetrachloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Toluene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Trichloroethene	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Trichlorofluoromethane	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Vinyl chloride	BRL	2.0		ug/L	100597	1	6/13/2008 10:53 AM
Surr: 4-Bromofluorobenzene	87.4	60.4-132		%REC	100597	1	6/13/2008 10:53 AM
Surr: Dibromofluoromethane	93.0	76.2-120		%REC	100597	1	6/13/2008 10:53 AM
Surr: Toluene-d8	88.5	73.3-124		%REC	100597	1	6/13/2008 10:53 AM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **CAB**
Ethyl tert-butyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
Isopropyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
tert-Amyl methyl ether	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM
tert-Butyl Alcohol	BRL	5.0		ug/L	100597	1	6/13/2008 10:53 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: MB-100597 SampType: MBLK TestCode: 8260_TCL4.2 Units: ug/L Prep Date: 6/12/2008 RunNo: 127196
Client ID: Batch ID: 100597 TestNo: SW8260B Analysis Date: 6/12/2008 SeqNo: 2588331

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

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: **MB-100597** SampType: **MBLK** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2588331**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0		
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0		
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0		
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0		
Freon-113	BRL	10	0	0	0	0	0	0	0		
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0		
m,p-Xylene	BRL	10	0	0	0	0	0	0	0		
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0		
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0		
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0		
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0		
o-Xylene	BRL	5.0	0	0	0	0	0	0	0		
Styrene	BRL	5.0	0	0	0	0	0	0	0		
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0		
Toluene	BRL	5.0	0	0	0	0	0	0	0		
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0		
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0		
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0		
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0		
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0		
Surr: 4-Bromofluorobenzene	43.68	0	50	0	87.4	60.4	132	0	0		
Surr: Dibromofluoromethane	46.86	0	50	0	93.7	76.2	120	0	0		
Surr: Toluene-d8	45.08	0	50	0	90.2	73.3	124	0	0		

Sample ID: **MB-100596** SampType: **MBLK** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588432**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0		
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: **MB-100596** SampType: **MBLK** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588432**

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

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: **MB-100596** SampType: **MBLK** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588432**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	BRL	10	0	0	0	0	0	0	0		
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0		
m,p-Xylene	BRL	10	0	0	0	0	0	0	0		
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0		
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0		
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0		
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0		
o-Xylene	BRL	5.0	0	0	0	0	0	0	0		
Styrene	BRL	5.0	0	0	0	0	0	0	0		
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0		
Toluene	BRL	5.0	0	0	0	0	0	0	0		
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0		
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0		
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0		
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0		
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0		
Surr: 4-Bromofluorobenzene	44.21	0	50	0	88.4	60.4	132	0	0		
Surr: Dibromofluoromethane	47.6	0	50	0	95.2	76.2	120	0	0		
Surr: Toluene-d8	44.65	0	50	0	89.3	73.3	124	0	0		

Sample ID: **LCS-100597** SampType: **LCS** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2588335**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	53.32	5.0	50	0	107	69.2	166	0	0		
Benzene	40.08	5.0	50	0	80.2	72.3	137	0	0		
Chlorobenzene	44.87	5.0	50	0	89.7	71.2	133	0	0		
Toluene	39.18	5.0	50	0	78.4	74.8	139	0	0		
Trichloroethene	43.34	5.0	50	0	86.7	71	146	0	0		
Surr: 4-Bromofluorobenzene	44.3	0	50	0	88.6	60.4	132	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: **LCS-100597** SampType: **LCS** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2588335**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	47.18	0	50	0	94.4	76.2	120	0	0		
Surr: Toluene-d8	44.75	0	50	0	89.5	73.3	124	0	0		

Sample ID: **LCS-100596** SampType: **LCS** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588448**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	46.17	5.0	50	0	92.3	69.2	166	0	0		
Benzene	38.29	5.0	50	0	76.6	72.3	137	0	0		
Chlorobenzene	43.65	5.0	50	0	87.3	71.2	133	0	0		
Toluene	37.7	5.0	50	0	75.4	74.8	139	0	0		
Trichloroethene	42.35	5.0	50	0	84.7	71	146	0	0		
Surr: 4-Bromofluorobenzene	44.57	0	50	0	89.1	60.4	132	0	0		
Surr: Dibromofluoromethane	48.9	0	50	0	97.8	76.2	120	0	0		
Surr: Toluene-d8	46.47	0	50	0	92.9	73.3	124	0	0		

Sample ID: **0806534-024AMS** SampType: **MS** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: **RW-02** Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2588460**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	501.4	50	500	0	100	69.4	167	0	0		
Benzene	4644	50	500	3429	243	70	139	0	0		SE
Chlorobenzene	443.4	50	500	0	88.7	69.3	135	0	0		
Toluene	2865	50	500	2597	53.6	72.1	141	0	0		SE
Trichloroethene	455.6	50	500	0	91.1	67.4	148	0	0		
Surr: 4-Bromofluorobenzene	454.7	0	500	0	90.9	60.4	132	0	0		
Surr: Dibromofluoromethane	453.4	0	500	0	90.7	76.2	120	0	0		
Surr: Toluene-d8	464.2	0	500	0	92.8	73.3	124	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: **0806534-002AMS** SampType: **MS** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: **RW-05** Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588490**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	529.2	50	500	0	106	69.4	167	0	0		
Benzene	431.5	50	500	0	86.3	70	139	0	0		
Chlorobenzene	465.2	50	500	0	93	69.3	135	0	0		
Toluene	433.2	50	500	0	86.6	72.1	141	0	0		
Trichloroethene	470.1	50	500	0	94	67.4	148	0	0		
Surr: 4-Bromofluorobenzene	433.1	0	500	0	86.6	60.4	132	0	0		
Surr: Dibromofluoromethane	460.9	0	500	0	92.2	76.2	120	0	0		
Surr: Toluene-d8	467.3	0	500	0	93.5	73.3	124	0	0		

Sample ID: **0806534-024AMS** SampType: **MS** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: **RW-02** Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2660784**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	501.4	50	500	0	100	69.4	167	0	0		
Benzene	4644	50	500	3429	243	70	139	0	0		SE
Chlorobenzene	443.4	50	500	0	88.7	69.3	135	0	0		
Toluene	2865	50	500	2597	53.6	72.1	141	0	0		SE
Trichloroethene	455.6	50	500	0	91.1	67.4	148	0	0		
Surr: 4-Bromofluorobenzene	454.7	0	500	0	90.9	60.4	132	0	0		
Surr: Dibromofluoromethane	453.4	0	500	0	90.7	76.2	120	0	0		
Surr: Toluene-d8	464.2	0	500	0	92.8	73.3	124	0	0		

Sample ID: **0806534-002AMS** SampType: **MS** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: **RW-05** Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2660813**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	529.2	50	500	0	106	69.4	167	0	0		
Benzene	431.5	50	500	0	86.3	70	139	0	0		
Chlorobenzene	465.2	50	500	0	93	69.3	135	0	0		
Toluene	433.2	50	500	0	86.6	72.1	141	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: **0806534-002AMS** SampType: **MS** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: **RW-05** Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2660813**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	470.1	50	500	0	94	67.4	148	0	0		
Surr: 4-Bromofluorobenzene	433.1	0	500	0	86.6	60.4	132	0	0		
Surr: Dibromofluoromethane	460.9	0	500	0	92.2	76.2	120	0	0		
Surr: Toluene-d8	467.3	0	500	0	93.5	73.3	124	0	0		

Sample ID: **0806534-024AMSD** SampType: **MSD** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: **RW-02** Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2588463**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	504.9	50	500	0	101	69.4	167	501.4	0.696	20	
Benzene	4589	50	500	3429	232	70	139	4644	1.18	20	SE
Chlorobenzene	443.2	50	500	0	88.6	69.3	135	443.4	0.0451	20	
Toluene	2843	50	500	2597	49.2	72.1	141	2865	0.767	20	SE
Trichloroethene	442.2	50	500	0	88.4	67.4	148	455.6	2.99	20	
Surr: 4-Bromofluorobenzene	451.8	0	500	0	90.4	60.4	132	454.7	0	0	
Surr: Dibromofluoromethane	457.6	0	500	0	91.5	76.2	120	453.4	0	0	
Surr: Toluene-d8	455	0	500	0	91	73.3	124	464.2	0	0	

Sample ID: **0806534-002AMSD** SampType: **MSD** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: **RW-05** Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588493**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	545.9	50	500	0	109	69.4	167	529.2	3.11	20	
Benzene	419.8	50	500	0	84	70	139	431.5	2.75	20	
Chlorobenzene	464.1	50	500	0	92.8	69.3	135	465.2	0.237	20	
Toluene	420.2	50	500	0	84	72.1	141	433.2	3.05	20	
Trichloroethene	469.1	50	500	0	93.8	67.4	148	470.1	0.213	20	
Surr: 4-Bromofluorobenzene	430.9	0	500	0	86.2	60.4	132	433.1	0	0	
Surr: Dibromofluoromethane	467.6	0	500	0	93.5	76.2	120	460.9	0	0	
Surr: Toluene-d8	461.6	0	500	0	92.3	73.3	124	467.3	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: **0806534-024AMSD** SampType: **MSD** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: **RW-02** Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2660785**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	504.9	50	500	0	101	69.4	167	501.4	0.696	20	
Benzene	4589	50	500	3429	232	70	139	4644	1.18	20	SE
Chlorobenzene	443.2	50	500	0	88.6	69.3	135	443.4	0.0451	20	
Toluene	2843	50	500	2597	49.2	72.1	141	2865	0.767	20	SE
Trichloroethene	442.2	50	500	0	88.4	67.4	148	455.6	2.99	20	
Surr: 4-Bromofluorobenzene	451.8	0	500	0	90.4	60.4	132	454.7	0	0	
Surr: Dibromofluoromethane	457.6	0	500	0	91.5	76.2	120	453.4	0	0	
Surr: Toluene-d8	455	0	500	0	91	73.3	124	464.2	0	0	

Sample ID: **0806534-002AMSD** SampType: **MSD** TestCode: **8260_TCL4.2** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: **RW-05** Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2660817**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	545.9	50	500	0	109	69.4	167	529.2	3.11	20	
Benzene	419.8	50	500	0	84	70	139	431.5	2.75	20	
Chlorobenzene	464.1	50	500	0	92.8	69.3	135	465.2	0.237	20	
Toluene	420.2	50	500	0	84	72.1	141	433.2	3.05	20	
Trichloroethene	469.1	50	500	0	93.8	67.4	148	470.1	0.213	20	
Surr: 4-Bromofluorobenzene	430.9	0	500	0	86.2	60.4	132	433.1	0	0	
Surr: Dibromofluoromethane	467.6	0	500	0	93.5	76.2	120	460.9	0	0	
Surr: Toluene-d8	461.6	0	500	0	92.3	73.3	124	467.3	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID: **MB-100597** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2588527**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0		
Isopropyl ether	BRL	5.0	0	0	0	0	0	0	0		
tert-Amyl methyl ether	BRL	5.0	0	0	0	0	0	0	0		
tert-Butyl Alcohol	BRL	5.0	0	0	0	0	0	0	0		

Sample ID: **MB-100596** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588761**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0		
Isopropyl ether	BRL	5.0	0	0	0	0	0	0	0		
tert-Amyl methyl ether	BRL	5.0	0	0	0	0	0	0	0		
tert-Butyl Alcohol	BRL	5.0	0	0	0	0	0	0	0		

Sample ID: **LCS-100597** SampType: **LCS** TestCode: **8260B_OXY_** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2588531**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	43.59	5.0	50	0	87.2	67.8	128	0	0		
Isopropyl ether	54.6	5.0	50	0	109	71.7	146	0	0		
tert-Amyl methyl ether	39.93	5.0	50	0	79.9	64.6	121	0	0		
tert-Butyl Alcohol	259.8	5.0	250	0	104	42.7	153	0	0		

Sample ID: **LCS-100596** SampType: **LCS** TestCode: **8260B_OXY_** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588765**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	42.45	5.0	50	0	84.9	67.8	128	0	0		
Isopropyl ether	51.13	5.0	50	0	102	71.7	146	0	0		
tert-Amyl methyl ether	38.91	5.0	50	0	77.8	64.6	121	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID: **LCS-100596** SampType: **LCS** TestCode: **8260B_OXY_** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588765**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
tert-Butyl Alcohol	206.1	5.0	250	0	82.5	42.7	153	0	0		

Sample ID: **0806534-024AMS** SampType: **MS** TestCode: **8260B_OXY_** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: **RW-02** Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2588533**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	433	50	500	0	86.6	61.6	140	0	0		
Isopropyl ether	764.6	50	500	231.3	107	69.5	151	0	0		
tert-Amyl methyl ether	1615	50	500	1360	50.9	62.3	127	0	0		S
tert-Butyl Alcohol	3946	50	2500	1656	91.6	34.9	189	0	0		

Sample ID: **0806534-002AMS** SampType: **MS** TestCode: **8260B_OXY_** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: **RW-05** Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588768**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	439.6	50	500	0	87.9	61.6	140	0	0		
Isopropyl ether	537.4	50	500	0	107	69.5	151	0	0		
tert-Amyl methyl ether	403.1	50	500	0	80.6	62.3	127	0	0		
tert-Butyl Alcohol	2612	50	2500	0	104	34.9	189	0	0		

Sample ID: **0806534-024AMSD** SampType: **MSD** TestCode: **8260B_OXY_** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127196**
Client ID: **RW-02** Batch ID: **100597** TestNo: **SW8260B** Analysis Date: **6/12/2008** SeqNo: **2588537**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	435.1	50	500	0	87	61.6	140	433	0.484	20	
Isopropyl ether	759	50	500	231.3	106	69.5	151	764.6	0.735	20	
tert-Amyl methyl ether	1657	50	500	1360	59.4	62.3	127	1615	2.59	20	S
tert-Butyl Alcohol	3222	50	2500	1656	62.6	34.9	189	3946	20.2	40.2	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID: **0806534-002AMSD** SampType: **MSD** TestCode: **8260B_OXY_** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127258**
Client ID: **RW-05** Batch ID: **100596** TestNo: **SW8260B** Analysis Date: **6/13/2008** SeqNo: **2588771**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	457	50	500	0	91.4	61.6	140	439.6	3.88	20	
Isopropyl ether	548.8	50	500	0	110	69.5	151	537.4	2.10	20	
tert-Amyl methyl ether	409.7	50	500	0	81.9	62.3	127	403.1	1.62	20	
tert-Butyl Alcohol	2637	50	2500	0	105	34.9	189	2612	0.930	40.2	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID: **MB-100447** SampType: **MBLK** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/10/2008** RunNo: **127149**
Client ID: Batch ID: **100447** TestNo: **SW8270C** Analysis Date: **6/11/2008** SeqNo: **2585828**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	BRL	10	0	0	0	0	0	0	0		
2-Methylnaphthalene	BRL	10	0	0	0	0	0	0	0		
Acenaphthene	BRL	10	0	0	0	0	0	0	0		
Acenaphthylene	BRL	10	0	0	0	0	0	0	0		
Anthracene	BRL	10	0	0	0	0	0	0	0		
Benz(a)anthracene	BRL	10	0	0	0	0	0	0	0		
Benzo(a)pyrene	BRL	10	0	0	0	0	0	0	0		
Benzo(b)fluoranthene	BRL	10	0	0	0	0	0	0	0		
Benzo(g,h,i)perylene	BRL	10	0	0	0	0	0	0	0		
Benzo(k)fluoranthene	BRL	10	0	0	0	0	0	0	0		
Chrysene	BRL	10	0	0	0	0	0	0	0		
Dibenz(a,h)anthracene	BRL	10	0	0	0	0	0	0	0		
Fluoranthene	BRL	10	0	0	0	0	0	0	0		
Fluorene	BRL	10	0	0	0	0	0	0	0		
Indeno(1,2,3-cd)pyrene	BRL	10	0	0	0	0	0	0	0		
Naphthalene	BRL	10	0	0	0	0	0	0	0		
Phenanthrene	BRL	10	0	0	0	0	0	0	0		
Pyrene	BRL	10	0	0	0	0	0	0	0		
Surr: 2-Fluorobiphenyl	52.14	0	50	0	104	47.4	115	0	0		
Surr: 4-Terphenyl-d14	35.61	0	50	0	71.2	57.5	129	0	0		
Surr: Nitrobenzene-d5	54.84	0	50	0	110	30.2	123	0	0		

Sample ID: **MB-100538** SampType: **MBLK** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127331**
Client ID: Batch ID: **100538** TestNo: **SW8270C** Analysis Date: **6/13/2008** SeqNo: **2590044**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	BRL	10	0	0	0	0	0	0	0		
2-Methylnaphthalene	BRL	10	0	0	0	0	0	0	0		
Acenaphthene	BRL	10	0	0	0	0	0	0	0		
Acenaphthylene	BRL	10	0	0	0	0	0	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID: **MB-100538** SampType: **MBLK** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127331**
Client ID: Batch ID: **100538** TestNo: **SW8270C** Analysis Date: **6/13/2008** SeqNo: **2590044**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	BRL	10	0	0	0	0	0	0	0		
Benz(a)anthracene	BRL	10	0	0	0	0	0	0	0		
Benzo(a)pyrene	BRL	10	0	0	0	0	0	0	0		
Benzo(b)fluoranthene	BRL	10	0	0	0	0	0	0	0		
Benzo(g,h,i)perylene	BRL	10	0	0	0	0	0	0	0		
Benzo(k)fluoranthene	BRL	10	0	0	0	0	0	0	0		
Chrysene	BRL	10	0	0	0	0	0	0	0		
Dibenz(a,h)anthracene	BRL	10	0	0	0	0	0	0	0		
Fluoranthene	BRL	10	0	0	0	0	0	0	0		
Fluorene	BRL	10	0	0	0	0	0	0	0		
Indeno(1,2,3-cd)pyrene	BRL	10	0	0	0	0	0	0	0		
Naphthalene	BRL	10	0	0	0	0	0	0	0		
Phenanthrene	BRL	10	0	0	0	0	0	0	0		
Pyrene	BRL	10	0	0	0	0	0	0	0		
Surr: 2-Fluorobiphenyl	46.23	0	50	0	92.5	47.4	115	0	0		
Surr: 4-Terphenyl-d14	32.9	0	50	0	65.8	57.5	129	0	0		
Surr: Nitrobenzene-d5	51.11	0	50	0	102	30.2	123	0	0		

Sample ID: **LCS-100447** SampType: **LCS** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/10/2008** RunNo: **127149**
Client ID: Batch ID: **100447** TestNo: **SW8270C** Analysis Date: **6/11/2008** SeqNo: **2587104**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	48.25	10	50	0	96.5	55.3	120	0	0		
Acenaphthylene	62.03	10	50	0	124	55.6	120	0	0		S
Anthracene	43.44	10	50	0	86.9	65.4	120	0	0		
Benz(a)anthracene	53.29	10	50	0	107	65.7	120	0	0		
Benzo(a)pyrene	51.91	10	50	0	104	66.5	120	0	0		
Benzo(b)fluoranthene	46.24	10	50	0	92.5	66.2	120	0	0		
Benzo(g,h,i)perylene	46.14	10	50	0	92.3	61.2	120	0	0		
Benzo(k)fluoranthene	54.3	10	50	0	109	66.5	120	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID: **LCS-100447** SampType: **LCS** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/10/2008** RunNo: **127149**
Client ID: Batch ID: **100447** TestNo: **SW8270C** Analysis Date: **6/11/2008** SeqNo: **2587104**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	54.51	10	50	0	109	64.8	120	0	0		
Dibenz(a,h)anthracene	44.31	10	50	0	88.6	62.1	120	0	0		
Fluoranthene	47.16	10	50	0	94.3	64.7	120	0	0		
Fluorene	51.97	10	50	0	104	59.8	120	0	0		
Indeno(1,2,3-cd)pyrene	45.09	10	50	0	90.2	58.9	120	0	0		
Naphthalene	45.43	10	50	0	90.9	50	120	0	0		
Phenanthrene	45.41	10	50	0	90.8	62.6	120	0	0		
Pyrene	55.3	10	50	0	111	64.1	120	0	0		
Surr: 2-Fluorobiphenyl	52.42	0	50	0	105	47.4	115	0	0		
Surr: 4-Terphenyl-d14	44.21	0	50	0	88.4	57.5	129	0	0		
Surr: Nitrobenzene-d5	48.26	0	50	0	96.5	30.2	123	0	0		

Sample ID: **LCS-100538** SampType: **LCS** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127331**
Client ID: Batch ID: **100538** TestNo: **SW8270C** Analysis Date: **6/13/2008** SeqNo: **2590048**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	45.7	10	50	0	91.4	55.3	120	0	0		
Acenaphthylene	49.44	10	50	0	98.9	55.6	120	0	0		
Anthracene	50.74	10	50	0	101	65.4	120	0	0		
Benz(a)anthracene	49.29	10	50	0	98.6	65.7	120	0	0		
Benzo(a)pyrene	43.66	10	50	0	87.3	66.5	120	0	0		
Benzo(b)fluoranthene	45.53	10	50	0	91.1	66.2	120	0	0		
Benzo(g,h,i)perylene	46.53	10	50	0	93.1	61.2	120	0	0		
Benzo(k)fluoranthene	44.96	10	50	0	89.9	66.5	120	0	0		
Chrysene	47.38	10	50	0	94.8	64.8	120	0	0		
Dibenz(a,h)anthracene	48.18	10	50	0	96.4	62.1	120	0	0		
Fluoranthene	50.03	10	50	0	100	64.7	120	0	0		
Fluorene	49.71	10	50	0	99.4	59.8	120	0	0		
Indeno(1,2,3-cd)pyrene	43.76	10	50	0	87.5	58.9	120	0	0		
Naphthalene	43.09	10	50	0	86.2	50	120	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID: **LCS-100538** SampType: **LCS** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127331**
Client ID: Batch ID: **100538** TestNo: **SW8270C** Analysis Date: **6/13/2008** SeqNo: **2590048**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	49.88	10	50	0	99.8	62.6	120	0	0		
Pyrene	48.21	10	50	0	96.4	64.1	120	0	0		
Surr: 2-Fluorobiphenyl	49.75	0	50	0	99.5	47.4	115	0	0		
Surr: 4-Terphenyl-d14	31.31	0	50	0	62.6	57.5	129	0	0		
Surr: Nitrobenzene-d5	53.94	0	50	0	108	30.2	123	0	0		

Sample ID: **0806534-004BMS** SampType: **MS** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/10/2008** RunNo: **127149**
Client ID: **MW-2R** Batch ID: **100447** TestNo: **SW8270C** Analysis Date: **6/11/2008** SeqNo: **2587094**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	44.07	10	50	0	88.1	44.5	120	0	0		
Acenaphthylene	55.46	10	50	0	111	45.6	120	0	0		
Anthracene	40.14	10	50	0	80.3	63.1	120	0	0		
Benz(a)anthracene	48.06	10	50	0	96.1	67.6	120	0	0		
Benzo(a)pyrene	47.1	10	50	0	94.2	64.1	120	0	0		
Benzo(b)fluoranthene	41.81	10	50	0	83.6	63.8	125	0	0		
Benzo(g,h,i)perylene	41.8	10	50	0	83.6	57.9	120	0	0		
Benzo(k)fluoranthene	47.39	10	50	0	94.8	62.2	120	0	0		
Chrysene	48.7	10	50	0	97.4	67.8	120	0	0		
Dibenz(a,h)anthracene	39.82	10	50	0	79.6	60.1	125	0	0		
Fluoranthene	42.28	10	50	0	84.6	63.3	120	0	0		
Fluorene	46.43	10	50	0	92.9	51.5	120	0	0		
Indeno(1,2,3-cd)pyrene	40.84	10	50	0	81.7	53.6	120	0	0		
Naphthalene	42.5	10	50	0	85	25.8	120	0	0		
Phenanthrene	41.79	10	50	0	83.6	60.3	120	0	0		
Pyrene	50.42	10	50	0	101	60.8	120	0	0		
Surr: 2-Fluorobiphenyl	46.85	0	50	0	93.7	47.4	115	0	0		
Surr: 4-Terphenyl-d14	31.57	0	50	0	63.1	57.5	129	0	0		
Surr: Nitrobenzene-d5	44.96	0	50	0	89.9	30.2	123	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID: **0806534-026BMS** SampType: **MS** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127331**
Client ID: **RW-08** Batch ID: **100538** TestNo: **SW8270C** Analysis Date: **6/13/2008** SeqNo: **2590051**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	45.52	10	50	0	91	44.5	120	0	0		
Acenaphthylene	47.44	10	50	0	94.9	45.6	120	0	0		
Anthracene	49.07	10	50	0	98.1	63.1	120	0	0		
Benz(a)anthracene	46.17	10	50	0	92.3	67.6	120	0	0		
Benzo(a)pyrene	42.68	10	50	0	85.4	64.1	120	0	0		
Benzo(b)fluoranthene	43.98	10	50	0	88	63.8	125	0	0		
Benzo(g,h,i)perylene	44.53	10	50	0	89.1	57.9	120	0	0		
Benzo(k)fluoranthene	42	10	50	0	84	62.2	120	0	0		
Chrysene	43.93	10	50	0	87.9	67.8	120	0	0		
Dibenz(a,h)anthracene	46.88	10	50	0	93.8	60.1	125	0	0		
Fluoranthene	47.74	10	50	0	95.5	63.3	120	0	0		
Fluorene	48.6	10	50	0	97.2	51.5	120	0	0		
Indeno(1,2,3-cd)pyrene	41.73	10	50	0	83.5	53.6	120	0	0		
Phenanthrene	46.76	10	50	0	93.5	60.3	120	0	0		
Pyrene	44.32	10	50	0	88.6	60.8	120	0	0		
Surr: 2-Fluorobiphenyl	44.48	0	50	0	89	47.4	115	0	0		
Surr: 4-Terphenyl-d14	50.29	0	50	0	101	57.5	129	0	0		
Surr: Nitrobenzene-d5	49.77	0	50	0	99.5	30.2	123	0	0		

Sample ID: **0806534-026BMS** SampType: **MS** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127331**
Client ID: **RW-08** Batch ID: **100538** TestNo: **SW8270C** Analysis Date: **6/13/2008** SeqNo: **2591024**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	247.2	50	50	235.4	23.5	25.8	120	0	0		S

Sample ID: **0806534-004BMSD** SampType: **MSD** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/10/2008** RunNo: **127149**
Client ID: **MW-2R** Batch ID: **100447** TestNo: **SW8270C** Analysis Date: **6/11/2008** SeqNo: **2587096**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	43.38	10	50	0	86.8	44.5	120	44.07	1.58	41.5	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID: **0806534-004BMSD** SampType: **MSD** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/10/2008** RunNo: **127149**
Client ID: **MW-2R** Batch ID: **100447** TestNo: **SW8270C** Analysis Date: **6/11/2008** SeqNo: **2587096**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	54.89	10	50	0	110	45.6	120	55.46	1.03	45.7	
Anthracene	40.83	10	50	0	81.7	63.1	120	40.14	1.70	20	
Benz(a)anthracene	49.15	10	50	0	98.3	67.6	120	48.06	2.24	20	
Benzo(a)pyrene	47.46	10	50	0	94.9	64.1	120	47.1	0.761	20	
Benzo(b)fluoranthene	42.41	10	50	0	84.8	63.8	125	41.81	1.42	20	
Benzo(g,h,i)perylene	43.03	10	50	0	86.1	57.9	120	41.8	2.90	20.4	
Benzo(k)fluoranthene	50.15	10	50	0	100	62.2	120	47.39	5.66	20	
Chrysene	49	10	50	0	98	67.8	120	48.7	0.614	20	
Dibenz(a,h)anthracene	41	10	50	0	82	60.1	125	39.82	2.92	20	
Fluoranthene	43.79	10	50	0	87.6	63.3	120	42.28	3.51	20	
Fluorene	46.98	10	50	0	94	51.5	120	46.43	1.18	32.4	
Indeno(1,2,3-cd)pyrene	41.07	10	50	0	82.1	53.6	120	40.84	0.562	21.7	
Naphthalene	39.28	10	50	0	78.6	25.8	120	42.5	7.87	66.7	
Phenanthrene	42.36	10	50	0	84.7	60.3	120	41.79	1.35	20	
Pyrene	50.89	10	50	0	102	60.8	120	50.42	0.928	20	
Surr: 2-Fluorobiphenyl	45.95	0	50	0	91.9	47.4	115	46.85	0	0	
Surr: 4-Terphenyl-d14	31.24	0	50	0	62.5	57.5	129	31.57	0	0	
Surr: Nitrobenzene-d5	42.36	0	50	0	84.7	30.2	123	44.96	0	0	

Sample ID: **0806534-026BMSD** SampType: **MSD** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127331**
Client ID: **RW-08** Batch ID: **100538** TestNo: **SW8270C** Analysis Date: **6/13/2008** SeqNo: **2590056**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	46.08	10	50	0	92.2	44.5	120	45.52	1.22	41.5	
Acenaphthylene	48.43	10	50	0	96.9	45.6	120	47.44	2.07	45.7	
Anthracene	49.39	10	50	0	98.8	63.1	120	49.07	0.650	20	
Benz(a)anthracene	46.84	10	50	0	93.7	67.6	120	46.17	1.44	20	
Benzo(a)pyrene	42.09	10	50	0	84.2	64.1	120	42.68	1.39	20	
Benzo(b)fluoranthene	43.73	10	50	0	87.5	63.8	125	43.98	0.570	20	
Benzo(g,h,i)perylene	45.3	10	50	0	90.6	57.9	120	44.53	1.71	20.4	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

CLIENT: Stantec Consulting
Work Order: 0806534
Project: N. Peachtree GUST EZ Serve 8102

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_PAH_W

Sample ID: **0806534-026BMSD** SampType: **MSD** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127331**
Client ID: **RW-08** Batch ID: **100538** TestNo: **SW8270C** Analysis Date: **6/13/2008** SeqNo: **2590056**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	41.72	10	50	0	83.4	62.2	120	42	0.669	20	
Chrysene	44.79	10	50	0	89.6	67.8	120	43.93	1.94	20	
Dibenz(a,h)anthracene	48.01	10	50	0	96	60.1	125	46.88	2.38	20	
Fluoranthene	47.87	10	50	0	95.7	63.3	120	47.74	0.272	20	
Fluorene	48.91	10	50	0	97.8	51.5	120	48.6	0.636	32.4	
Indeno(1,2,3-cd)pyrene	43.09	10	50	0	86.2	53.6	120	41.73	3.21	21.7	
Phenanthrene	46.86	10	50	0	93.7	60.3	120	46.76	0.214	20	
Pyrene	45.71	10	50	0	91.4	60.8	120	44.32	3.09	20	
Surr: 2-Fluorobiphenyl	43.26	0	50	0	86.5	47.4	115	44.48	0	0	
Surr: 4-Terphenyl-d14	48.99	0	50	0	98	57.5	129	50.29	0	0	
Surr: Nitrobenzene-d5	50.7	0	50	0	101	30.2	123	49.77	0	0	

Sample ID: **0806534-026BMSD** SampType: **MSD** TestCode: **8270_PAH_W** Units: **ug/L** Prep Date: **6/12/2008** RunNo: **127331**
Client ID: **RW-08** Batch ID: **100538** TestNo: **SW8270C** Analysis Date: **6/13/2008** SeqNo: **2591030**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	235.9	50	50	235.4	0.9	25.8	120	247.2	4.68	66.7	S

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Estimated value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
R	RPD outside limits due to matrix	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix

Sump Analytical Data
Winter Environmental

WINTER ENVIRONMENTAL

Analytical Report 323304

for

Winter Environmental

Project Manager: Len Diprima

Fashion Care Chamblee

08096

28-JAN-09

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Texas certification numbers:
Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

28-JAN-09

Project Manager: **Len Diprima**
Winter Environmental
3350 Green Pointe Parkway
Norcross, GA 30092

Reference: XENCO Report No: **323304**
Fashion Care Chamblee
Project Address: Georgia

Len Diprima:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 323304. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 323304 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

David C. Fuller
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 323304

Winter Environmental, Norcross, GA

Fashion Care Chamblee

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Sump-1	W	Jan-21-09 17:50		323304-001

Certificate of Analytical Results 323304

Winter Environmental, Norcross, GA

Fashion Care Chamblee

Sample Id: **Sump-1**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **323304-001**	Date Collected: **Jan-21-09 17:50**	Date Received: **Jan-23-09 16:57**

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: Jan-27-09 11:54 Analyst: ANI Date Prep: Jan-27-09 06:45 Tech: ANI

Seq Number: 747668

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Tetrachloroethene	127-18-4	701	100	16.0	ug/L	D	100
Trichloroethene	79-01-6	10.8	1.00	0.190	ug/L		1

Project: Fashion Care

Version: 1.000

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

***** Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care Chamblee

Work Orders : 323304, **Project ID:** 08096

Lab Batch #: 747668 **Sample:** 323097-001 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49.66	50.00	99	53-159	
4-Bromofluorobenzene	49.23	50.00	98	30-186	
Toluene-D8	49.20	50.00	98	70-130	

Lab Batch #: 747668 **Sample:** 323097-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51.76	50.00	104	53-159	
4-Bromofluorobenzene	49.82	50.00	100	30-186	
Toluene-D8	49.58	50.00	99	70-130	

Lab Batch #: 747668 **Sample:** 323304-001 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50.63	50.00	101	53-159	
4-Bromofluorobenzene	50.04	50.00	100	30-186	
Toluene-D8	49.85	50.00	100	70-130	

Lab Batch #: 747668 **Sample:** 323304-001 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51.02	50.00	102	53-159	
4-Bromofluorobenzene	49.98	50.00	100	30-186	
Toluene-D8	49.91	50.00	100	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care Chamblee

Work Orders : 323304, **Project ID:** 08096

Lab Batch #: 747668 **Sample:** 523669-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50.65	50.00	101	53-159	
4-Bromofluorobenzene	49.42	50.00	99	30-186	
Toluene-D8	49.58	50.00	99	70-130	

Lab Batch #: 747668 **Sample:** 523669-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L

Select VOCs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50.75	50.00	102	53-159	
4-Bromofluorobenzene	50.25	50.00	101	30-186	
Toluene-D8	49.34	50.00	99	70-130	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: **Fashion Care Chamblee**

Work Order #: 323304 **Project ID:** 08096

Lab Batch #: 747668 **Sample:** 523669-1-BKS **Matrix:** Water

Date Analyzed: 01/27/2009 **Date Prepared:** 01/27/2009 **Analyst:** ANI

Reporting Units: ug/L **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Tetrachloroethene	<0.160	50.0	49.0	98	45-150	
Trichloroethene	<0.190	50.0	49.1	98	70-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care Chamblee

Work Order # : 323304 **Project ID:** 08096

Lab Batch ID: 747668 **QC- Sample ID:** 323097-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 01/27/2009 **Date Prepared:** 01/27/2009 **Analyst:** ANI

Reporting Units: ug/L

Select VOCs by SW-846 8260B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Tetrachloroethene	<1.00	50.0	47.0	94	50.0	46.0	92	2	45-150	20	
Trichloroethene	<1.00	50.0	47.1	94	50.0	48.4	97	3	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

XENCO Laboratories

☐ 5757 N.W. 158th Street, Miami Lakes, Fl 33014 305-823-8500
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☑ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800
☐ Philadephia/New Jersey 610-955-5649

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 223373 Page 1 of 1

Company-City: Winter Environmental
Phone: 404-965-3348
Lab Only: WO # 323304
Proj Name-Location: Fashion Care - Chamblee ☑ Previously done at XENCO
Project ID: 08096
TAT: ASAP 5h 12h 24h 48h 3d (5d) 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.
Proj State: AL, FL, (GA), LA, MS, NC, NJ, PA, SC, TN, TX, UT Other
Proj. Manager (PM): L. DiPrima
Fax Results to ☑ PM or
e-mail to: Ldiprima@winter-environmental.com
Fax No:
Invoice to ☐ Accounting ☑ Inc. Invoice with Final Report ☐ Invoice must have a P.O Bill to: Len DiPrima
Quote/Pricing:
P.O No:
☐ Call for P.O.
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW (GA HSRA)
QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)
LPST No.:
Sampler Name
Signature

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs BTEX-MTBE VOHs VOAs PP TCL Appdx 1 Appdx 2	Method (8260) 8021 624 524	PAHs: 8270 8100 8310 8270_SIM	TRPH by FL PRO DRO GRO MA EPH MA VPH	SVOCs: 8270 625 - (BN&AE) (TCL) (PP) (Appdx 2)	Pest. (8081 / 608) PCBs (8082 / 608) Herb. (8151 / 615)	EDB / DBCP (8011 / 504)	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	Metals Methods: 6020 / 6010 / 200.8 / 7470 / 7471	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	FL Preburn: Virgin Non-Virgin		Analyze for PCE and TCE only					TAT ASAP 5h 12h 24h 48h 3d (5d) 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Remarks: Sample Clean-ups are pre-approved as needed			Addn: Date Rcv by: From:
1	Sump-1	1/21/09	1750	–	W		✓	2	✓	C	H	X	X											X						X						1
2																																				2
3																																				3
4																																				4
5																																				5
6																																				6
7																																				7
8																																				8
9																																				9
10																																				10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) [signature]	1/23/09 1657	2) [signature]	1/23/09 1657
3)		4)	
5)		6)	

Total Containers per COC: 2 Cooler Temp: 3°C

All XENCO Standard Terms and Conditions Apply.

Rush Charges are Pre-Approved upon Requesting them.

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O) _____

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tedlar Bag (B), Wipe (W), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Other (O) _____

Matrix: Air (A), Product (P), Solid(S), Water (W)

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Wenter Environment

Date/ Time: 01-23-09 16:57

Lab ID # : 323304

Initials: Gm

Sample Receipt Checklist

#1	Temperature of cooler?			3	°C
#2	Shipping container in good condition?	YES	No	None	
#3	Samples received on ice?	YES	No	N/A	Blue/Water
#4	Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	N/A	
#6	Chain of Custody present?	YES	No		
#7	Sample instructions complete of Chain of Custody?	YES	No		
#8	Any missing/extra samples?	Yes	NO		
#9	Chain of Custody signed when relinquished/ received?	YES	No		
#10	Chain of Custody agrees with sample label(s)?	YES	No		
#11	Container label(s) legible and intact?	YES	No		
#12	Sample matrix/ properties agree with Chain of Custody?	YES	No		
#13	Samples in proper container/ bottle?	YES	No		
#14	Samples properly preserved?	YES	No	N/A	
#15	Sample container(s) intact?	YES	No		
#16	Sufficient sample amount for indicated test(s)?	YES	No		
#17	All samples received within sufficient hold time?	YES	No		
#18	Subcontract of sample(s)?	Yes	NO		
#19	VOC samples have zero headspace?	YES	No	N/A	

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Post-Remediation Soil Analytical Data May 2009
Winter Environmental

WINTER ENVIRONMENTAL

Analytical Report 332267

for

Winter Environmental

Project Manager: Len Diprima

Fashion Care

08096

20-MAY-09

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Texas certification numbers:
Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Miramar, FL E86349
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

20-MAY-09

Project Manager: **Len Diprima**
Winter Environmental
3350 Green Pointe Pkwy
Suite 200
Norcross, GA 30092

Reference: XENCO Report No: **332267**
Fashion Care
Project Address: Georgia

Len Diprima:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 332267. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 332267 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

David C. Fuller
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 332267

Winter Environmental, Norcross, GA

Fashion Care

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-28	S	May-08-09 10:10	0 - 2 ft	332267-001
SB-28	S	May-08-09 10:15	4 - 6 ft	332267-002
SB-28	S	May-08-09 10:20	8 - 10 ft	332267-003
SB-29	S	May-08-09 10:30	0 - 2 ft	332267-004
SB-29	S	May-08-09 10:40	4 - 6 ft	332267-005
SB-29	S	May-08-09 10:45	8 - 10 ft	332267-006
SB-30	S	May-08-09 12:20	0 - 2 ft	332267-007
SB-30	S	May-08-09 12:25	4.5 - 6.5 ft	332267-008
SB-30	S	May-08-09 12:30	8.5 - 10.5 ft	332267-009
SB-31	S	May-08-09 12:50	0 - 2 ft	332267-010
SB-31	S	May-08-09 12:55	4 - 6 ft	332267-011
SB-31	S	May-08-09 13:00	7.5 - 9.5 ft	332267-012
SB-32	S	May-08-09 13:15	0 - 2 ft	332267-013
SB-32	S	May-08-09 13:30	3.5 - 5.5 ft	332267-014
SB-32	S	May-08-09 13:45	6 - 8 ft	332267-015
SB-33	S	May-08-09 14:00	0 - 2 ft	332267-016
SB-33	S	May-08-09 14:15	4 - 6 ft	332267-017
SB-33	S	May-08-09 14:25	7 - 9 ft	332267-018

Certificate of Analytical Results 332267

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-28**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-001**	Date Collected: **May-08-09 10:10**	Date Received: **May-08-09 16:50**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-15-09 00:50 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	190	31	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	190	45	ug/kg	U	50
Acetone	67-64-1	U	1900	270	ug/kg	U	50
Benzene	71-43-2	U	190	20	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	500	190	26	ug/kg		50
Cyclohexane	110-82-7	U	190	37	ug/kg	U	50
Ethylbenzene	100-41-4	U	190	22	ug/kg	U	50
Isopropylbenzene	98-82-8	U	190	30	ug/kg	U	50
Tetrachloroethene	127-18-4	980	190	40	ug/kg		50
Toluene	108-88-3	U	190	23	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	190	30	ug/kg	U	50
Trichloroethene	79-01-6	200	190	27	ug/kg		50
m,p-Xylenes	179601-23-1	U	390	47	ug/kg	U	50
Vinyl chloride	75-01-4	U	190	78	ug/kg	U	50
o-Xylene	95-47-6	U	190	28	ug/kg	U	50
Xylenes, Total	1330-20-7	U	190	28	ug/kg	U	50

Project: Fashion Care

Version: 1.010

Certificate of Analytical Results 332267

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-28**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-002**	Date Collected: **May-08-09 10:15**	Date Received: **May-08-09 16:50**
Sample Depth: **4 - 6 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-15-09 00:21 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	190	31	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	190	45	ug/kg	U	50
Acetone	67-64-1	U	1900	270	ug/kg	U	50
Benzene	71-43-2	U	190	20	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	73000	5000	660	ug/kg	D	1000
Cyclohexane	110-82-7	U	190	37	ug/kg	U	50
Ethylbenzene	100-41-4	U	190	22	ug/kg	U	50
Isopropylbenzene	98-82-8	U	190	29	ug/kg	U	50
Tetrachloroethene	127-18-4	52000	5000	1000	ug/kg	D	1000
Toluene	108-88-3	U	190	23	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	830	190	30	ug/kg		50
Trichloroethene	79-01-6	15000	5000	710	ug/kg	D	1000
Vinyl chloride	75-01-4	U	190	78	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	390	47	ug/kg	U	50
o-Xylene	95-47-6	U	190	28	ug/kg	U	50
Xylenes, Total	1330-20-7	U	190	28	ug/kg	U	50

Project: Fashion Care

Version: 1.010

Certificate of Analytical Results 332267

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-28**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-003**	Date Collected: **May-08-09 10:20**	Date Received: **May-08-09 16:50**
Sample Depth: **8 - 10 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-14-09 23:52 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	170	27	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	170	39	ug/kg	U	50
Acetone	67-64-1	U	1700	230	ug/kg	U	50
Benzene	71-43-2	U	170	17	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	10000	2500	330	ug/kg	D	500
Cyclohexane	110-82-7	U	170	31	ug/kg	U	50
Ethylbenzene	100-41-4	U	170	19	ug/kg	U	50
Isopropylbenzene	98-82-8	U	170	25	ug/kg	U	50
Tetrachloroethene	127-18-4	37000	2500	520	ug/kg	D	500
Toluene	108-88-3	U	170	20	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	64	170	26	ug/kg	J	50
Trichloroethene	79-01-6	4000	170	24	ug/kg		50
m,p-Xylenes	179601-23-1	46	330	40	ug/kg	J	50
Vinyl chloride	75-01-4	U	170	67	ug/kg	U	50
o-Xylene	95-47-6	U	170	24	ug/kg	U	50
Xylenes, Total	1330-20-7	46	170	24	ug/kg	J	50

Project: Fashion Care

Version: 1.010

Certificate of Analytical Results 332267

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-29**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-004**	Date Collected: **May-08-09 10:30**	Date Received: **May-08-09 16:50**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5035

Date Analyzed: May-18-09 15:41 Analyst: ANI Date Prep: May-18-09 06:44 Tech: MHR

Seq Number: 759320

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	5.0	0.80	ug/kg	U	1
1,1-Dichloroethene	75-35-4	U	5.0	1.2	ug/kg	U	1
Acetone	67-64-1	520	50	6.9	ug/kg		1
Benzene	71-43-2	1.8	5.0	0.51	ug/kg	J	1
cis-1,2-Dichloroethene	156-59-2	14	5.0	0.66	ug/kg		1
Cyclohexane	110-82-7	U	5.0	0.95	ug/kg	U	1
Ethylbenzene	100-41-4	1.1	5.0	0.57	ug/kg	J	1
Isopropylbenzene	98-82-8	U	5.0	0.76	ug/kg	U	1
Tetrachloroethene	127-18-4	3.1	5.0	1.0	ug/kg	J	1
Toluene	108-88-3	4.9	5.0	0.59	ug/kg	J	1
trans-1,2-Dichloroethene	156-60-5	U	5.0	0.78	ug/kg	U	1
Trichloroethene	79-01-6	U	5.0	0.71	ug/kg	U	1
m,p-Xylenes	179601-23-1	U	10	1.2	ug/kg	U	1
Vinyl chloride	75-01-4	U	5.0	2.0	ug/kg	U	1
o-Xylene	95-47-6	U	5.0	0.72	ug/kg	U	1
Xylenes, Total	1330-20-7	U	5.0	0.72	ug/kg	U	1

Project: Fashion Care

Version: 1.010

Certificate of Analytical Results 332267

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-29**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-005**	Date Collected: **May-08-09 10:40**	Date Received: **May-08-09 16:50**
Sample Depth: **4 - 6 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5035

Date Analyzed: May-18-09 16:09 Analyst: ANI Date Prep: May-18-09 06:44 Tech: MHR

Seq Number: 759320

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	5.0	0.80	ug/kg	U	1
1,1-Dichloroethene	75-35-4	U	5.0	1.2	ug/kg	U	1
Acetone	67-64-1	69	50	6.9	ug/kg		1
Benzene	71-43-2	4.6	5.0	0.51	ug/kg	J	1
cis-1,2-Dichloroethene	156-59-2	91	5.0	0.66	ug/kg		1
Cyclohexane	110-82-7	7.7	5.0	0.95	ug/kg		1
Ethylbenzene	100-41-4	1.9	5.0	0.57	ug/kg	J	1
Isopropylbenzene	98-82-8	U	5.0	0.76	ug/kg	U	1
Tetrachloroethene	127-18-4	22	5.0	1.0	ug/kg		1
Toluene	108-88-3	8.1	5.0	0.59	ug/kg		1
trans-1,2-Dichloroethene	156-60-5	1.6	5.0	0.78	ug/kg	J	1
Trichloroethene	79-01-6	2.1	5.0	0.71	ug/kg	J	1
Vinyl chloride	75-01-4	U	5.0	2.0	ug/kg	U	1
m,p-Xylenes	179601-23-1	U	10	1.2	ug/kg	U	1
o-Xylene	95-47-6	0.73	5.0	0.72	ug/kg	J	1
Xylenes, Total	1330-20-7	0.73	5.0	0.72	ug/kg	J	1

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Fashion Care

Sample Id: **SB-29**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-006**	Date Collected: **May-08-09 10:45**	Date Received: **May-08-09 16:50**
Sample Depth: **8 - 10 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5035

Date Analyzed: May-18-09 16:38 Analyst: ANI Date Prep: May-18-09 06:44 Tech: MHR

Seq Number: 759320

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	5.0	0.80	ug/kg	U	1
1,1-Dichloroethene	75-35-4	U	5.0	1.2	ug/kg	U	1
Acetone	67-64-1	45	50	6.9	ug/kg	J	1
Benzene	71-43-2	57	5.0	0.51	ug/kg		1
cis-1,2-Dichloroethene	156-59-2	290	170	22	ug/kg	D	50
Cyclohexane	110-82-7	21	5.0	0.95	ug/kg		1
Ethylbenzene	100-41-4	19	5.0	0.57	ug/kg		1
Isopropylbenzene	98-82-8	1.1	5.0	0.76	ug/kg	J	1
Tetrachloroethene	127-18-4	2.3	5.0	1.0	ug/kg	J	1
Toluene	108-88-3	37	5.0	0.59	ug/kg		1
trans-1,2-Dichloroethene	156-60-5	6.7	5.0	0.78	ug/kg		1
Trichloroethene	79-01-6	U	5.0	0.71	ug/kg	U	1
Vinyl chloride	75-01-4	67	5.0	2.0	ug/kg		1
m,p-Xylenes	179601-23-1	51	10	1.2	ug/kg		1
o-Xylene	95-47-6	19	5.0	0.72	ug/kg		1
Xylenes, Total	1330-20-7	70	5.0	0.72	ug/kg		1

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Fashion Care

Sample Id: **SB-30**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-007**	Date Collected: **May-08-09 12:20**	Date Received: **May-08-09 16:50**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-14-09 21:56 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	200	32	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	200	46	ug/kg	U	50
Acetone	67-64-1	U	2000	270	ug/kg	U	50
Benzene	71-43-2	U	200	20	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	130	200	26	ug/kg	J	50
Cyclohexane	110-82-7	U	200	38	ug/kg	U	50
Ethylbenzene	100-41-4	U	200	22	ug/kg	U	50
Isopropylbenzene	98-82-8	U	200	30	ug/kg	U	50
Tetrachloroethene	127-18-4	2300	200	41	ug/kg		50
Toluene	108-88-3	U	200	23	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	200	31	ug/kg	U	50
Trichloroethene	79-01-6	160	200	28	ug/kg	J	50
Vinyl chloride	75-01-4	U	200	80	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	400	48	ug/kg	U	50
o-Xylene	95-47-6	U	200	28	ug/kg	U	50
Xylenes, Total	1330-20-7	U	200	28	ug/kg	U	50

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Fashion Care

Sample Id: **SB-30**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-008**	Date Collected: **May-08-09 12:25**	Date Received: **May-08-09 16:50**
Sample Depth: **4.5 - 6.5 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-14-09 21:26 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	180	29	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	180	42	ug/kg	U	50
Acetone	67-64-1	U	1800	250	ug/kg	U	50
Benzene	71-43-2	U	180	18	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	2800	180	24	ug/kg		50
Cyclohexane	110-82-7	U	180	34	ug/kg	U	50
Ethylbenzene	100-41-4	U	180	20	ug/kg	U	50
Isopropylbenzene	98-82-8	U	180	27	ug/kg	U	50
Tetrachloroethene	127-18-4	6700	1800	370	ug/kg	D	500
Toluene	108-88-3	U	180	21	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	180	28	ug/kg	U	50
Trichloroethene	79-01-6	3400	180	25	ug/kg		50
Vinyl chloride	75-01-4	U	180	72	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	360	43	ug/kg	U	50
o-Xylene	95-47-6	U	180	26	ug/kg	U	50
Xylenes, Total	1330-20-7	U	180	26	ug/kg	U	50

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Sample Id: **SB-30**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-009**	Date Collected: **May-08-09 12:30**	Date Received: **May-08-09 16:50**
Sample Depth: **8.5 - 10.5 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-14-09 20:57 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	180	29	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	180	43	ug/kg	U	50
Acetone	67-64-1	U	1800	250	ug/kg	U	50
Benzene	71-43-2	70	180	19	ug/kg	J	50
cis-1,2-Dichloroethene	156-59-2	6200	180	24	ug/kg		50
Cyclohexane	110-82-7	U	180	35	ug/kg	U	50
Ethylbenzene	100-41-4	51	180	21	ug/kg	J	50
Isopropylbenzene	98-82-8	U	180	28	ug/kg	U	50
Tetrachloroethene	127-18-4	1500	180	38	ug/kg		50
Toluene	108-88-3	210	180	22	ug/kg		50
trans-1,2-Dichloroethene	156-60-5	41	180	29	ug/kg	J	50
Trichloroethene	79-01-6	2300	180	26	ug/kg		50
Vinyl chloride	75-01-4	U	180	74	ug/kg	U	50
m,p-Xylenes	179601-23-1	98	370	44	ug/kg	J	50
o-Xylene	95-47-6	49	180	26	ug/kg	J	50
Xylenes, Total	1330-20-7	147	180	26	ug/kg	J	50

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Sample Id: **SB-31**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-010**	Date Collected: **May-08-09 12:50**	Date Received: **May-08-09 16:50**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-14-09 20:27 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	220	35	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	220	50	ug/kg	U	50
Acetone	67-64-1	U	2200	300	ug/kg	U	50
Benzene	71-43-2	U	220	22	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	200	220	28	ug/kg	J	50
Cyclohexane	110-82-7	U	220	41	ug/kg	U	50
Ethylbenzene	100-41-4	U	220	24	ug/kg	U	50
Isopropylbenzene	98-82-8	U	220	33	ug/kg	U	50
Tetrachloroethene	127-18-4	3400	220	45	ug/kg		50
Toluene	108-88-3	U	220	25	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	220	34	ug/kg	U	50
Trichloroethene	79-01-6	270	220	30	ug/kg		50
Vinyl chloride	75-01-4	U	220	86	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	430	52	ug/kg	U	50
o-Xylene	95-47-6	U	220	31	ug/kg	U	50
Xylenes, Total	1330-20-7	U	220	31	ug/kg	U	50

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Sample Id: **SB-31**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-011**	Date Collected: **May-08-09 12:55**	Date Received: **May-08-09 16:50**
Sample Depth: **4 - 6 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-15-09 01:19 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	180	29	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	180	41	ug/kg	U	50
Acetone	67-64-1	U	1800	240	ug/kg	U	50
Benzene	71-43-2	U	180	18	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	1600	180	24	ug/kg		50
Cyclohexane	110-82-7	U	180	34	ug/kg	U	50
Ethylbenzene	100-41-4	U	180	20	ug/kg	U	50
Isopropylbenzene	98-82-8	U	180	27	ug/kg	U	50
Tetrachloroethene	127-18-4	4500	180	37	ug/kg		50
Toluene	108-88-3	U	180	21	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	180	28	ug/kg	U	50
Trichloroethene	79-01-6	1700	180	25	ug/kg		50
m,p-Xylenes	179601-23-1	U	360	43	ug/kg	U	50
Vinyl chloride	75-01-4	U	180	72	ug/kg	U	50
o-Xylene	95-47-6	U	180	25	ug/kg	U	50
Xylenes, Total	1330-20-7	U	180	25	ug/kg	U	50

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Fashion Care

Sample Id: **SB-31**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-012**	Date Collected: **May-08-09 13:00**	Date Received: **May-08-09 16:50**
Sample Depth: **7.5 - 9.5 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-15-09 01:47 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	140	22	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	140	32	ug/kg	U	50
Acetone	67-64-1	U	1400	190	ug/kg	U	50
Benzene	71-43-2	U	140	14	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	190	140	18	ug/kg		50
Cyclohexane	110-82-7	U	140	26	ug/kg	U	50
Ethylbenzene	100-41-4	U	140	15	ug/kg	U	50
Isopropylbenzene	98-82-8	U	140	21	ug/kg	U	50
Tetrachloroethene	127-18-4	300	140	28	ug/kg		50
Toluene	108-88-3	U	140	16	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	140	21	ug/kg	U	50
Trichloroethene	79-01-6	350	140	19	ug/kg		50
m,p-Xylenes	179601-23-1	U	270	33	ug/kg	U	50
Vinyl chloride	75-01-4	U	140	55	ug/kg	U	50
o-Xylene	95-47-6	U	140	19	ug/kg	U	50
Xylenes, Total	1330-20-7	U	140	19	ug/kg	U	50

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Sample Id: **SB-32**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-013**	Date Collected: **May-08-09 13:15**	Date Received: **May-08-09 16:50**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-15-09 02:16 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	150	25	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	150	36	ug/kg	U	50
Acetone	67-64-1	U	1500	210	ug/kg	U	50
Benzene	71-43-2	U	150	16	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	U	150	20	ug/kg	U	50
Cyclohexane	110-82-7	U	150	29	ug/kg	U	50
Ethylbenzene	100-41-4	U	150	17	ug/kg	U	50
Isopropylbenzene	98-82-8	U	150	23	ug/kg	U	50
Tetrachloroethene	127-18-4	15000	2500	520	ug/kg	D	500
Toluene	108-88-3	U	150	18	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	150	24	ug/kg	U	50
Trichloroethene	79-01-6	U	150	22	ug/kg	U	50
Vinyl chloride	75-01-4	U	150	62	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	310	37	ug/kg	U	50
o-Xylene	95-47-6	U	150	22	ug/kg	U	50
Xylenes, Total	1330-20-7	U	150	22	ug/kg	U	50

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Sample Id: **SB-32**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-014**	Date Collected: **May-08-09 13:30**	Date Received: **May-08-09 16:50**
Sample Depth: **3.5 - 5.5 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-15-09 02:45 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	160	25	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	160	36	ug/kg	U	50
Acetone	67-64-1	U	1600	210	ug/kg	U	50
Benzene	71-43-2	U	160	16	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	270	160	21	ug/kg		50
Cyclohexane	110-82-7	U	160	29	ug/kg	U	50
Ethylbenzene	100-41-4	U	160	18	ug/kg	U	50
Isopropylbenzene	98-82-8	U	160	24	ug/kg	U	50
Tetrachloroethene	127-18-4	1400000	130000	26000	ug/kg	D	25000
Toluene	108-88-3	26	160	18	ug/kg	J	50
trans-1,2-Dichloroethene	156-60-5	U	160	24	ug/kg	U	50
Trichloroethene	79-01-6	3400	160	22	ug/kg		50
m,p-Xylenes	179601-23-1	U	310	38	ug/kg	U	50
Vinyl chloride	75-01-4	U	160	62	ug/kg	U	50
o-Xylene	95-47-6	U	160	22	ug/kg	U	50
Xylenes, Total	1330-20-7	U	160	22	ug/kg	U	50

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Sample Id: **SB-32**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-015**	Date Collected: **May-08-09 13:45**	Date Received: **May-08-09 16:50**
Sample Depth: **6 - 8 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-15-09 03:13 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	190	30	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	190	44	ug/kg	U	50
Acetone	67-64-1	U	1900	260	ug/kg	U	50
Benzene	71-43-2	34	190	19	ug/kg	J	50
cis-1,2-Dichloroethene	156-59-2	2500	190	25	ug/kg		50
Cyclohexane	110-82-7	U	190	36	ug/kg	U	50
Ethylbenzene	100-41-4	300	190	21	ug/kg		50
Isopropylbenzene	98-82-8	U	190	29	ug/kg	U	50
Tetrachloroethene	127-18-4	3800000	130000	26000	ug/kg	D	25000
Toluene	108-88-3	210	190	22	ug/kg		50
trans-1,2-Dichloroethene	156-60-5	110	190	29	ug/kg	J	50
Trichloroethene	79-01-6	30000	25000	3500	ug/kg	D	5000
m,p-Xylenes	179601-23-1	500	380	46	ug/kg		50
Vinyl chloride	75-01-4	U	190	76	ug/kg	U	50
o-Xylene	95-47-6	210	190	27	ug/kg		50
Xylenes, Total	1330-20-7	710	190	27	ug/kg		50

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Sample Id: **SB-33**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-016**	Date Collected: **May-08-09 14:00**	Date Received: **May-08-09 16:50**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-15-09 03:42 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	160	26	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	160	37	ug/kg	U	50
Acetone	67-64-1	U	1600	220	ug/kg	U	50
Benzene	71-43-2	U	160	16	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	130	160	21	ug/kg	J	50
Cyclohexane	110-82-7	U	160	30	ug/kg	U	50
Ethylbenzene	100-41-4	U	160	18	ug/kg	U	50
Isopropylbenzene	98-82-8	U	160	24	ug/kg	U	50
Tetrachloroethene	127-18-4	2300000	130000	26000	ug/kg	D	25000
Toluene	108-88-3	U	160	19	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	160	25	ug/kg	U	50
Trichloroethene	79-01-6	4400	160	23	ug/kg		50
m,p-Xylenes	179601-23-1	U	320	39	ug/kg	U	50
Vinyl chloride	75-01-4	U	160	64	ug/kg	U	50
o-Xylene	95-47-6	U	160	23	ug/kg	U	50
Xylenes, Total	1330-20-7	U	160	23	ug/kg	U	50

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Sample Id: **SB-33**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-017**	Date Collected: **May-08-09 14:15**	Date Received: **May-08-09 16:50**
Sample Depth: **4 - 6 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-15-09 04:10 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	140	23	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	140	33	ug/kg	U	50
Acetone	67-64-1	U	1400	200	ug/kg	U	50
Benzene	71-43-2	U	140	15	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	590	140	19	ug/kg		50
Cyclohexane	110-82-7	U	140	27	ug/kg	U	50
Ethylbenzene	100-41-4	U	140	16	ug/kg	U	50
Isopropylbenzene	98-82-8	U	140	22	ug/kg	U	50
Tetrachloroethene	127-18-4	100000	25000	5200	ug/kg	D	5000
Toluene	108-88-3	U	140	17	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	140	22	ug/kg	U	50
Trichloroethene	79-01-6	1700	140	20	ug/kg		50
Vinyl chloride	75-01-4	U	140	57	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	280	34	ug/kg	U	50
o-Xylene	95-47-6	U	140	20	ug/kg	U	50
Xylenes, Total	1330-20-7	U	140	20	ug/kg	U	50

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Fashion Care

Sample Id: **SB-33**	Matrix: **SOIL**	% Moisture:
Lab Sample Id: **332267-018**	Date Collected: **May-08-09 14:25**	Date Received: **May-08-09 16:50**
Sample Depth: **7 - 9 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-15-09 04:39 Analyst: ANI Date Prep: May-14-09 18:03 Tech: ANI

Seq Number: 759057

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	190	31	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	190	45	ug/kg	U	50
Acetone	67-64-1	U	1900	270	ug/kg	U	50
Benzene	71-43-2	U	190	20	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	200	190	26	ug/kg		50
Cyclohexane	110-82-7	U	190	37	ug/kg	U	50
Ethylbenzene	100-41-4	U	190	22	ug/kg	U	50
Isopropylbenzene	98-82-8	U	190	30	ug/kg	U	50
Tetrachloroethene	127-18-4	8100	2500	520	ug/kg	D	500
Toluene	108-88-3	U	190	23	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	190	30	ug/kg	U	50
Trichloroethene	79-01-6	440	190	28	ug/kg		50
Vinyl chloride	75-01-4	U	190	78	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	390	47	ug/kg	U	50
o-Xylene	95-47-6	U	190	28	ug/kg	U	50
Xylenes, Total	1330-20-7	U	190	28	ug/kg	U	50

Project: Fashion Care

Version: 1.010

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

***** Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759010 **Sample:** 332309-005 S / MS **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/14/09 16:37

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48	50	96	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	51	50	102	45-140	

Lab Batch #: 759010 **Sample:** 332309-005 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/14/09 17:06

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49	50	98	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	51	50	102	45-140	

Lab Batch #: 759057 **Sample:** 530031-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/14/09 18:58

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52	50	104	46-167	
4-Bromofluorobenzene	51	50	102	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 530031-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/14/09 19:58

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51	50	102	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759057 **Sample:** 332267-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/14/09 20:27

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 332267-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/14/09 20:57

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 332267-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/14/09 21:26

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 332267-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/14/09 21:56

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759057 **Sample:** 332267-006 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/14/09 22:25

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 332267-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/14/09 23:52

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49	50	98	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 332267-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 00:21

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 332267-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 00:50

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51	50	102	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759057 **Sample:** 332267-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 01:19

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 332267-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 01:47

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 332267-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 02:16

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 332267-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 02:45

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	51	50	102	57-158	
Toluene-D8	52	50	104	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759057 **Sample:** 332267-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 03:13

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51	50	102	46-167	
4-Bromofluorobenzene	51	50	102	57-158	
Toluene-D8	57	50	114	45-140	

Lab Batch #: 759057 **Sample:** 332267-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 03:42

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49	50	98	46-167	
4-Bromofluorobenzene	51	50	102	57-158	
Toluene-D8	55	50	110	45-140	

Lab Batch #: 759057 **Sample:** 332267-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 04:10

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51	50	102	46-167	
4-Bromofluorobenzene	51	50	102	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759057 **Sample:** 332267-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 04:39

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	51	50	102	57-158	
Toluene-D8	51	50	102	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759193 **Sample:** 530126-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/15/09 07:25

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	44	50	88	46-167	
4-Bromofluorobenzene	48	50	96	57-158	
Toluene-D8	48	50	96	45-140	

Lab Batch #: 759193 **Sample:** 530126-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/15/09 08:18

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52	50	104	46-167	
4-Bromofluorobenzene	55	50	110	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759193 **Sample:** 332267-014 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 13:14

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52	50	104	46-167	
4-Bromofluorobenzene	53	50	106	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 759193 **Sample:** 332267-016 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 13:43

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	46-167	
4-Bromofluorobenzene	53	50	106	57-158	
Toluene-D8	48	50	96	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759193 **Sample:** 332267-017 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 14:11

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	46-167	
4-Bromofluorobenzene	52	50	104	57-158	
Toluene-D8	48	50	96	45-140	

Lab Batch #: 759193 **Sample:** 332267-014 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 14:39

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	46-167	
4-Bromofluorobenzene	52	50	104	57-158	
Toluene-D8	48	50	96	45-140	

Lab Batch #: 759193 **Sample:** 332267-015 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 15:08

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52	50	104	46-167	
4-Bromofluorobenzene	53	50	106	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 759193 **Sample:** 332267-016 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/15/09 15:40

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52	50	104	46-167	
4-Bromofluorobenzene	54	50	108	57-158	
Toluene-D8	49	50	98	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759232 **Sample:** 530153-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/15/09 16:48

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	45	50	90	46-167	
4-Bromofluorobenzene	46	50	92	57-158	
Toluene-D8	48	50	96	45-140	

Lab Batch #: 759232 **Sample:** 530153-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/15/09 17:40

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54	50	108	46-167	
4-Bromofluorobenzene	53	50	106	57-158	
Toluene-D8	48	50	96	45-140	

Lab Batch #: 759232 **Sample:** 332267-003 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/16/09 01:44

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54	50	108	46-167	
4-Bromofluorobenzene	54	50	108	57-158	
Toluene-D8	48	50	96	45-140	

Lab Batch #: 759232 **Sample:** 332267-013 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/16/09 02:10

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	46-167	
4-Bromofluorobenzene	54	50	108	57-158	
Toluene-D8	48	50	96	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759232 **Sample:** 332267-018 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/16/09 02:36

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	46-167	
4-Bromofluorobenzene	54	50	108	57-158	
Toluene-D8	48	50	96	45-140	

Lab Batch #: 759232 **Sample:** 332267-002 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/16/09 03:05

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	46-167	
4-Bromofluorobenzene	54	50	108	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 759232 **Sample:** 332267-015 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/16/09 03:33

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	46-167	
4-Bromofluorobenzene	56	50	112	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 759320 **Sample:** 530206-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/18/09 08:08

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	51	50	102	57-158	
Toluene-D8	49	50	98	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759320 **Sample:** 530206-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/18/09 09:05

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48	50	96	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 759320 **Sample:** 332267-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/18/09 15:41

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	54	50	108	46-167	
4-Bromofluorobenzene	50	50	100	57-158	
Toluene-D8	48	50	96	45-140	

Lab Batch #: 759320 **Sample:** 332267-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/18/09 16:09

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	56	50	112	46-167	
4-Bromofluorobenzene	53	50	106	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 759320 **Sample:** 332267-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/18/09 16:38

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50	106	46-167	
4-Bromofluorobenzene	51	50	102	57-158	
Toluene-D8	49	50	98	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 332267, **Project ID:** 08096

Lab Batch #: 759458 **Sample:** 530292-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/19/09 08:12

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58	50	116	46-167	
4-Bromofluorobenzene	47	50	94	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 759458 **Sample:** 530292-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/19/09 09:04

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	55	50	110	46-167	
4-Bromofluorobenzene	55	50	110	57-158	
Toluene-D8	51	50	102	45-140	

Lab Batch #: 759458 **Sample:** 332267-008 / DL **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/19/09 14:32

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	56	50	112	46-167	
4-Bromofluorobenzene	54	50	108	57-158	
Toluene-D8	50	50	100	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 332267 **Project ID:** 08096

Lab Batch #: 759057 **Sample:** 530031-1-BKS **Matrix:** Solid
Date Analyzed: 05/14/2009 **Date Prepared:** 05/14/2009 **Analyst:** ANI
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<58	2500	2400	96	35-170	
Benzene	<26	2500	2400	96	38-158	
Toluene	<29	2500	2400	96	50-150	
Trichloroethene	<35	2500	2400	96	50-150	

Lab Batch #: 759193 **Sample:** 530126-1-BKS **Matrix:** Solid
Date Analyzed: 05/15/2009 **Date Prepared:** 05/15/2009 **Analyst:** ANI
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<58	2500	2600	104	35-170	
Benzene	<26	2500	2400	96	38-158	
Toluene	<29	2500	2500	100	50-150	
Trichloroethene	<35	2500	2400	96	50-150	

Lab Batch #: 759232 **Sample:** 530153-1-BKS **Matrix:** Solid
Date Analyzed: 05/15/2009 **Date Prepared:** 05/15/2009 **Analyst:** ANI
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<58	2500	2300	92	35-170	
Benzene	<26	2500	2200	88	38-158	
Toluene	<29	2500	2300	92	50-150	
Trichloroethene	<35	2500	2500	100	50-150	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 332267 **Project ID:** 08096

Lab Batch #: 759320 **Sample:** 530206-1-BKS **Matrix:** Solid
Date Analyzed: 05/18/2009 **Date Prepared:** 05/18/2009 **Analyst:** ANI
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<1.2	50	57	114	35-170	
Benzene	<0.51	50	51	102	38-158	
Toluene	<0.59	50	48	96	50-150	
Trichloroethene	<0.71	50	54	108	50-150	

Lab Batch #: 759458 **Sample:** 530292-1-BKS **Matrix:** Solid
Date Analyzed: 05/19/2009 **Date Prepared:** 05/19/2009 **Analyst:** 4124
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<58	2500	2300	92	35-170	
Benzene	<26	2500	2300	92	38-158	
Toluene	<29	2500	2400	96	50-150	
Trichloroethene	<35	2500	2100	84	50-150	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 332267 **Project ID:** 08096

Lab Batch ID: 759010 **QC- Sample ID:** 332309-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 05/14/2009 **Date Prepared:** 05/14/2009 **Analyst:** ANI

Reporting Units: ug/kg

Select VOCs by SW-846 8260B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<5.0	60	56	93	60	60	100	7	35-170	20	
Benzene	<5.0	60	54	90	60	58	97	7	38-158	20	
Toluene	1.6	60	57	92	60	58	94	2	50-150	20	
Trichloroethene	<5.0	60	56	93	60	61	102	9	50-150	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

XENCO Laboratories
Florida Testing Services, LLC

☐ 10200 USA Today Way, Miramar, FL 33025 954-431-4550
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☐ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800
☐ Philadephia/New Jersey 610-955-5649
☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 248473 Page 1 of 2

Company-City: Winter Environmental **Phone:** 404 588 3300

Lab Only: WO# ~~332266~~ 332267

Proj Name-Location: Fashion Care ☐ Previously done at XENCO **Project ID:** 08096

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Proj State: AL, FL, (GA), LA, MS, NC, NJ, PA, SC, TN, TX, UT Other **Proj. Manager (PM):**

e-Mail Results to ☐ PM or **Fax No:**
ldiprima@winter-environmental.com

Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O
Bill to:

Quote/Pricing: **P.O No:** 08096 ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA

QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

Sampler Name: Greg Muse Signature:

	Sample ID	Sampling Date	Time	Depth ft' in" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs	VOCs PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs	FL PRO DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCL PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	VOCs See attached sheet Method 8260	TAT ASAP 5h 12h 24h 48h 3d 5d (7d) 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Remarks: Sample Clean-ups are pre-approved as needed	Addn:	
1	SB-28	5/8/09	1010	0-2'	S		X	4													X	X					1
2	SB-28		1015	4-6'	S		X	4													X	X					2
3	SB-28		1020	8-10'	S		X	4													X	X					3
4	SB-29		1030	0-2'	S		X	4													X	X					4
5	SB-29		~~1030~~ 1040	~~0-2~~ 4-5'	S		X	4													X	X					5
6	SB-29		1045	8-10'	S		X	4													X	X					6
7	SB-30		1220	0-2'	S		X	4													X	X					7
8	SB-30		1225	4.5-6.5'	S		X	4													X	X					8
9	SB-30		1230	8.5-10.5'	S		X	4													X	X					9
10	SB-31		1250	0-2'	S		X	4													X	X					10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) GTM	5/8/09 4:50	2)	5/8/09 1650
2) 3)		4)	
3) 5)		6)	

Total Containers per COC: 72 Cooler Temp: 4.3

Upon signings this COC you accept XENCO terms and Conditions unless otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved.

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O) _____

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)

Matrix: Air (A), Product (P), Solid(S), Water (W), Liquid (L)

Committed to Excellence in Service and Quality *www.xenco.com*

Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previoiusly negotiated under a fully executed client contract.

XENCO Laboratories
Florida Testing Services, LLC

☐ 10200 USA Today Way, Miramar, FL 33025 954-431-4550
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☐ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800
☐ Philadephia/New Jersey 610-955-5649
☐ South Carolina 803-543-8099 ☐ Other

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 248230 Page 2 of 2

Company-City: Winter Environmental **Phone:** 404 588 3300

Lab Only: WO# 332267

Proj Name-Location: Fashion Care ☐ Previously done at XENCO **Project ID:** 08096

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Proj State: AL, FL, (GA) LA, MS, NC, NJ, PA, SC, TN, TX, UT Other **Proj. Manager (PM):** Len Diprima

e-Mail Results to ☐ PM or **Fax No:** ldiprima@winter-environmental.com

Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O
Bill to:

Quote/Pricing: **P.O No:** 08096 ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA

QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

Sampler Name Greg Muse Signature

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs	VOCs PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs	FL PRO DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCL PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	VOCs, See attached sheet Method 8260	TAT ASAP 5h 12h 24h 48h 3d 5d (7d) 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Remarks: Sample Clean-ups are pre-approved as needed	Addn: Date Rcv by: From:
1	SB-31	5/8/09	1255	4-6'	S		X	4													X	X				
2	SB-31		1300	7.5-9.5'	S		X	4													X	X				
3	SB-32		1315	0-2'	S		X	4													X	X				
4	SB-32		1330	3.5-5.5'	S		X	4													X	X				
5	SB-32		1345	6-8'	S		X	4													X	X				
6	SB-33		1400	0-2'	S		X	4													X	X				
7	SB-33		1415	4-6'	S		X	4													X	X				
8	SB-33		1425	7-9'	S		X	4													X	X				
9																										
10																										

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) GM	5/8/09 4:50	2)	5/8/09 1650
2) 3)		4)	
3) 5)		6)	

Total Containers per COC: Cooler Temp:

Upon signings this COC you accept XENCO terms and Conditions unless otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved.

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O) _____

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)

Matrix: Air (A), Product (P), Solid(S), Water (W), Liquid (L)

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Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previoiusly negotiated under a fully executed client contract.

Laboratory Analysis List
Fashion Care/Executive Care Site
Winter Environmental Project No. 08096

WO # 332267

- VOCs (soil):
  - Tetrachloroethene (PCE)
  - cis-1, 2-Dichloroethene
  - trans-1, 2-Dichloroethene
  - 1, 1-Dichloroethene (1,1-DCE)
  - Trichloroethene (TCE)
  - Vinyl Chloride (VC)
  - Benzene
  - Toluene
  - Ethylbenzene
  - Total Xylenes
  - Cyclohexane
  - Isopropylbenzene
  - 1, 1-Dichloroethane
  - Acetone
- VOCs (groundwater): TCL List
- BOD & COD (groundwater)
- Anions (groundwater): sodium, chlorides, SO4, dissolved Iron

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Winter Env.

Date/ Time: 5/8/09 1650

Lab ID # : 3322167

Initials: JAH

Sample Receipt Checklist

#1	Temperature of cooler?				4.3 °C
#2	Shipping container in good condition?	YES	No	None	
#3	Samples received on ice?	YES	No	N/A	Blue/Water
#4	Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	N/A	
#6	Chain of Custody present?	YES	No		
#7	Sample instructions complete of Chain of Custody?	YES	No		
#8	Any missing/extra samples?	Yes	NO		
#9	Chain of Custody signed when relinquished/ received?	YES	No		
#10	Chain of Custody agrees with sample label(s)?	YES	No		
#11	Container label(s) legible and intact?	YES	No		
#12	Sample matrix/ properties agree with Chain of Custody?	YES	No		
#13	Samples in proper container/ bottle?	YES	No		
#14	Samples properly preserved?	YES	No	N/A	
#15	Sample container(s) intact?	YES	No		
#16	Sufficient sample amount for indicated test(s)?	YES	No		
#17	All samples received within sufficient hold time?	YES	No		
#18	Subcontract of sample(s)?	Yes	NO		
#19	VOC samples have zero headspace?	YES	No	N/A	

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 333113

for

Winter Environmental

Project Manager: Len Diprima

Fashion Care

08096

19-JUN-09

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Texas certification numbers:
Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX
Corpus Christi, TX T104704370-08-TX - Dallas, TX T104704295-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Miramar, FL E86349
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

19-JUN-09

Project Manager: **Len Diprima**
Winter Environmental
3350 Green Pointe Pkwy
Suite 200
Norcross, GA 30092

Reference: XENCO Report No: **333113**
Fashion Care
Project Address: Georgia

Len Diprima:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 333113. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 333113 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

David C. Fuller
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 333113

Winter Environmental, Norcross, GA

Fashion Care

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-34 (0-2)	S	May-18-09 11:00	0 - 2 ft	333113-001
SB-34 (2.5-4.5)	S	May-18-09 11:05	2.5 - 4.5 ft	333113-002
SB-34 (5-7)	S	May-18-09 11:10	5 - 7 ft	333113-003
SB-35 (0-2)	S	May-18-09 10:00	0 - 2 ft	333113-004
SB-35 (2.5-4.5)	S	May-18-09 10:20	2.5 - 4.5 ft	333113-005
SB-35 (5-7)	S	May-18-09 10:25	5 - 7 ft	333113-006
SB-36 (0-2)	S	May-18-09 10:35	0 - 2 ft	333113-007
SB-36 (3-5)	S	May-18-09 10:40	3 - 5 ft	333113-008
SB-36 (6-8)	S	May-18-09 10:45	6 - 8 ft	333113-009
IDW51809	W	May-18-09 14:00		333113-010
TRIP BLANK	W	May-18-09 00:00		333113-011

Certificate of Analytical Results 333113

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-34 (0-2)**	Matrix: **SOIL**	% Moisture: **19.75**
Lab Sample Id: **333113-001**	Date Collected: **May-18-09 11:00**	Date Received: **May-18-09 15:25**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-27-09 23:47 Analyst: 4124 Date Prep: May-27-09 15:57 Tech: 4124

Seq Number: 760335

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	58	47	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	58	67	ug/kg	U	50
Acetone	67-64-1	U	580	400	ug/kg	U	50
Benzene	71-43-2	U	58	30	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	U	58	38	ug/kg	U	50
Cyclohexane	110-82-7	U	58	55	ug/kg	U	50
Ethylbenzene	100-41-4	U	58	33	ug/kg	U	50
Isopropylbenzene	98-82-8	U	58	44	ug/kg	U	50
Tetrachloroethene	127-18-4	240	58	60	ug/kg		50
Toluene	108-88-3	U	58	34	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	58	45	ug/kg	U	50
Trichloroethene	79-01-6	U	58	41	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	120	70	ug/kg	U	50
Vinyl chloride	75-01-4	U	58	120	ug/kg	U	50
o-Xylene	95-47-6	U	58	42	ug/kg	U	50
Xylenes, Total	1330-20-7	U	58	42	ug/kg	U	50

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **SB-34 (2.5-4.5)**	Matrix: **SOIL**	% Moisture: **18.5**
Lab Sample Id: **333113-002**	Date Collected: **May-18-09 11:05**	Date Received: **May-18-09 15:25**
Sample Depth: **2.5 - 4.5 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-27-09 23:21 Analyst: 4124 Date Prep: May-27-09 15:57 Tech: 4124

Seq Number: 760335

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	48	39	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	48	56	ug/kg	U	50
Acetone	67-64-1	U	480	330	ug/kg	U	50
Benzene	71-43-2	U	48	25	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	U	48	32	ug/kg	U	50
Cyclohexane	110-82-7	U	48	46	ug/kg	U	50
Ethylbenzene	100-41-4	U	48	27	ug/kg	U	50
Isopropylbenzene	98-82-8	U	48	37	ug/kg	U	50
Tetrachloroethene	127-18-4	2600	48	50	ug/kg		50
Toluene	108-88-3	U	48	28	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	48	38	ug/kg	U	50
Trichloroethene	79-01-6	53	48	34	ug/kg		50
Vinyl chloride	75-01-4	U	48	97	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	97	58	ug/kg	U	50
o-Xylene	95-47-6	U	48	35	ug/kg	U	50
Xylenes, Total	1330-20-7	U	48	35	ug/kg	U	50

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Fashion Care

Sample Id: **SB-34 (5-7)**	Matrix: **SOIL**	% Moisture: **20.08**
Lab Sample Id: **333113-003**	Date Collected: **May-18-09 11:10**	Date Received: **May-18-09 15:25**
Sample Depth: **5 - 7 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-27-09 22:55 Analyst: 4124 Date Prep: May-27-09 15:57 Tech: 4124

Seq Number: 760335

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	46	37	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	46	53	ug/kg	U	50
Acetone	67-64-1	U	460	320	ug/kg	U	50
Benzene	71-43-2	U	46	23	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	310	46	30	ug/kg		50
Cyclohexane	110-82-7	U	46	43	ug/kg	U	50
Ethylbenzene	100-41-4	U	46	26	ug/kg	U	50
Isopropylbenzene	98-82-8	U	46	35	ug/kg	U	50
Tetrachloroethene	127-18-4	390	46	47	ug/kg		50
Toluene	108-88-3	U	46	27	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	46	36	ug/kg	U	50
Trichloroethene	79-01-6	260	46	32	ug/kg		50
Vinyl chloride	75-01-4	U	46	92	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	92	55	ug/kg	U	50
o-Xylene	95-47-6	U	46	33	ug/kg	U	50
Xylenes, Total	1330-20-7	U	46	33	ug/kg	U	50

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Fashion Care

Sample Id: **SB-35 (0-2)**	Matrix: **SOIL**	% Moisture: **17.07**
Lab Sample Id: **333113-004**	Date Collected: **May-18-09 10:00**	Date Received: **May-18-09 15:25**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-27-09 22:02 Analyst: 4124 Date Prep: May-27-09 15:57 Tech: 4124

Seq Number: 760335

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	51	41	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	51	59	ug/kg	U	50
Acetone	67-64-1	U	510	350	ug/kg	U	50
Benzene	71-43-2	U	51	26	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	U	51	34	ug/kg	U	50
Cyclohexane	110-82-7	U	51	48	ug/kg	U	50
Ethylbenzene	100-41-4	U	51	29	ug/kg	U	50
Isopropylbenzene	98-82-8	U	51	38	ug/kg	U	50
Tetrachloroethene	127-18-4	270	51	53	ug/kg		50
Toluene	108-88-3	U	51	30	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	51	40	ug/kg	U	50
Trichloroethene	79-01-6	U	51	36	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	100	61	ug/kg	U	50
Vinyl chloride	75-01-4	U	51	100	ug/kg	U	50
o-Xylene	95-47-6	U	51	36	ug/kg	U	50
Xylenes, Total	1330-20-7	U	51	36	ug/kg	U	50

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Fashion Care

Sample Id: **SB-35 (2.5-4.5)**	Matrix: **SOIL**	% Moisture: **19.5**
Lab Sample Id: **333113-005**	Date Collected: **May-18-09 10:20**	Date Received: **May-18-09 15:25**
Sample Depth: **2.5 - 4.5 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-27-09 21:36 Analyst: 4124 Date Prep: May-27-09 15:57 Tech: 4124

Seq Number: 760335

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	46	37	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	46	53	ug/kg	U	50
Acetone	67-64-1	U	460	320	ug/kg	U	50
Benzene	71-43-2	53	46	24	ug/kg		50
cis-1,2-Dichloroethene	156-59-2	1500	46	30	ug/kg		50
Cyclohexane	110-82-7	U	46	43	ug/kg	U	50
Ethylbenzene	100-41-4	U	46	26	ug/kg	U	50
Isopropylbenzene	98-82-8	U	46	35	ug/kg	U	50
Tetrachloroethene	127-18-4	1000	46	47	ug/kg		50
Toluene	108-88-3	U	46	27	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	46	36	ug/kg	U	50
Trichloroethene	79-01-6	150	46	32	ug/kg		50
m,p-Xylenes	179601-23-1	U	92	55	ug/kg	U	50
Vinyl chloride	75-01-4	U	46	92	ug/kg	U	50
o-Xylene	95-47-6	U	46	33	ug/kg	U	50
Xylenes, Total	1330-20-7	U	46	33	ug/kg	U	50

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Fashion Care

Sample Id: **SB-35 (5-7)**	Matrix: **SOIL**	% Moisture: **19.44**
Lab Sample Id: **333113-006**	Date Collected: **May-18-09 10:25**	Date Received: **May-18-09 15:25**
Sample Depth: **5 - 7 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-27-09 21:10 Analyst: 4124 Date Prep: May-27-09 15:57 Tech: 4124

Seq Number: 760335

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	51	41	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	51	59	ug/kg	U	50
Acetone	67-64-1	U	510	350	ug/kg	U	50
Benzene	71-43-2	U	51	26	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	140	51	34	ug/kg		50
Cyclohexane	110-82-7	U	51	48	ug/kg	U	50
Ethylbenzene	100-41-4	U	51	29	ug/kg	U	50
Isopropylbenzene	98-82-8	U	51	39	ug/kg	U	50
Tetrachloroethene	127-18-4	120	51	53	ug/kg		50
Toluene	108-88-3	U	51	30	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	51	40	ug/kg	U	50
Trichloroethene	79-01-6	U	51	36	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	100	61	ug/kg	U	50
Vinyl chloride	75-01-4	U	51	100	ug/kg	U	50
o-Xylene	95-47-6	U	51	36	ug/kg	U	50
Xylenes, Total	1330-20-7	U	51	36	ug/kg	U	50

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Fashion Care

Sample Id: **SB-36 (0-2)**	Matrix: **SOIL**	% Moisture: **17.86**
Lab Sample Id: **333113-007**	Date Collected: **May-18-09 10:35**	Date Received: **May-18-09 15:25**
Sample Depth: **0 - 2 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-27-09 20:43 Analyst: 4124 Date Prep: May-27-09 15:57 Tech: 4124

Seq Number: 760335

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	48	38	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	48	55	ug/kg	U	50
Acetone	67-64-1	U	480	330	ug/kg	U	50
Benzene	71-43-2	U	48	24	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	260	48	31	ug/kg		50
Cyclohexane	110-82-7	U	48	45	ug/kg	U	50
Ethylbenzene	100-41-4	U	48	27	ug/kg	U	50
Isopropylbenzene	98-82-8	U	48	36	ug/kg	U	50
Tetrachloroethene	127-18-4	590	48	49	ug/kg		50
Toluene	108-88-3	U	48	28	ug/kg	U	50
trans-1,2-Dichloroethene	156-60-5	U	48	37	ug/kg	U	50
Trichloroethene	79-01-6	110	48	34	ug/kg		50
Vinyl chloride	75-01-4	U	48	95	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	95	57	ug/kg	U	50
o-Xylene	95-47-6	U	48	34	ug/kg	U	50
Xylenes, Total	1330-20-7	U	48	34	ug/kg	U	50

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Fashion Care

Sample Id: **SB-36 (3-5)**	Matrix: **SOIL**	% Moisture: **19.42**
Lab Sample Id: **333113-008**	Date Collected: **May-18-09 10:40**	Date Received: **May-18-09 15:25**
Sample Depth: **3 - 5 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-27-09 20:17 Analyst: 4124 Date Prep: May-27-09 15:57 Tech: 4124

Seq Number: 760335

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	49	39	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	49	57	ug/kg	U	50
Acetone	67-64-1	U	490	340	ug/kg	U	50
Benzene	71-43-2	61	49	25	ug/kg		50
cis-1,2-Dichloroethene	156-59-2	1700	49	32	ug/kg		50
Cyclohexane	110-82-7	U	49	46	ug/kg	U	50
Ethylbenzene	100-41-4	U	49	28	ug/kg	U	50
Isopropylbenzene	98-82-8	U	49	37	ug/kg	U	50
Tetrachloroethene	127-18-4	U	49	51	ug/kg	U	50
Toluene	108-88-3	35	49	29	ug/kg	J	50
trans-1,2-Dichloroethene	156-60-5	U	49	38	ug/kg	U	50
Trichloroethene	79-01-6	U	49	35	ug/kg	U	50
Vinyl chloride	75-01-4	U	49	98	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	98	59	ug/kg	U	50
o-Xylene	95-47-6	U	49	35	ug/kg	U	50
Xylenes, Total	1330-20-7	U	49	35	ug/kg	U	50

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Fashion Care

Sample Id: **SB-36 (6-8)**	Matrix: **SOIL**	% Moisture: **19.66**
Lab Sample Id: **333113-009**	Date Collected: **May-18-09 10:45**	Date Received: **May-18-09 15:25**
Sample Depth: **6 - 8 ft**		

Analytical Method: Select VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-27-09 19:50 Analyst: 4124 Date Prep: May-27-09 15:57 Tech: 4124

Seq Number: 760335

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1-Dichloroethane	75-34-3	U	47	37	ug/kg	U	50
1,1-Dichloroethene	75-35-4	U	47	54	ug/kg	U	50
Acetone	67-64-1	U	470	320	ug/kg	U	50
Benzene	71-43-2	U	47	24	ug/kg	U	50
cis-1,2-Dichloroethene	156-59-2	320	47	31	ug/kg		50
Cyclohexane	110-82-7	U	47	44	ug/kg	U	50
Ethylbenzene	100-41-4	27	47	26	ug/kg	J	50
Isopropylbenzene	98-82-8	U	47	35	ug/kg	U	50
Tetrachloroethene	127-18-4	110	47	48	ug/kg		50
Toluene	108-88-3	36	47	27	ug/kg	J	50
trans-1,2-Dichloroethene	156-60-5	U	47	36	ug/kg	U	50
Trichloroethene	79-01-6	U	47	33	ug/kg	U	50
m,p-Xylenes	179601-23-1	U	93	56	ug/kg	U	50
Vinyl chloride	75-01-4	U	47	93	ug/kg	U	50
o-Xylene	95-47-6	U	47	33	ug/kg	U	50
Xylenes, Total	1330-20-7	U	47	33	ug/kg	U	50

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Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **IDW51809**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **333113-010**	Date Collected: **May-18-09 14:00**	Date Received: **May-18-09 15:25**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-28-09 20:11 Analyst: ANI Date Prep: May-28-09 16:38 Tech: MHR

Seq Number: 760431

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	U	1
1,4-Dioxane	123-91-1	U	20.0	8.84	ug/L	U	1
2-Butanone (MEK)	78-93-3	11.0	2.00	0.280	ug/L		1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	U	1
Acetone	67-64-1	800	1000	27.4	ug/L	J	20
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	U	1
Carbon disulfide	75-15-0	U	1.00	0.260	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	U	1
Ethylbenzene	100-41-4	1.80	1.00	0.190	ug/L		1
Isopropylbenzene	98-82-8	0.420	1.00	0.150	ug/L	J	1
m,p-Xylenes	179601-23-1	10.8	2.00	0.510	ug/L		1
Methyl acetate	79-20-9	U	2.00	0.260	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	40.7	2.00	0.180	ug/L		1

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Fashion Care

Sample Id: **IDW51809**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **333113-010**	Date Collected: **May-18-09 14:00**	Date Received: **May-18-09 15:25**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-28-09 20:11 Analyst: ANI Date Prep: May-28-09 16:38 Tech: MHR

Seq Number: 760431

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	U	1
o-Xylene	95-47-6	11.7	1.00	0.200	ug/L		1
Styrene	100-42-5	U	1.00	0.180	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	U	1
Xylenes, Total	1330-20-7	22.5	1.00	0.200	ug/L		1

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Fashion Care

Sample Id: **TRIP BLANK**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **333113-011**	Date Collected: **May-18-09 00:00**	Date Received: **May-18-09 15:25**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-28-09 19:08 Analyst: ANI Date Prep: May-28-09 16:38 Tech: MHR

Seq Number: 760431

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	U	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	U	1.00	0.110	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	U	1.00	0.190	ug/L	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	U	1
1,4-Dioxane	123-91-1	U	20.0	8.84	ug/L	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	U	1
Carbon disulfide	75-15-0	U	1.00	0.260	ug/L	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	U	1
Cyclohexane	110-82-7	U	1.00	0.150	ug/L	U	1
Dibromochloromethane	124-48-1	U	1.00	0.150	ug/L	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
Methyl acetate	79-20-9	U	2.00	0.260	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1

Project: Fashion Care

Version: 1.007

Certificate of Analytical Results 333113

Winter Environmental, Norcross, GA

Fashion Care

Sample Id: **TRIP BLANK**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **333113-011**	Date Collected: **May-18-09 00:00**	Date Received: **May-18-09 15:25**

Analytical Method: TCL VOCs by SW-846 8260B Prep Method: SW5030B

Date Analyzed: May-28-09 19:08 Analyst: ANI Date Prep: May-28-09 16:38 Tech: MHR

Seq Number: 760431

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Methylcyclohexane	108-87-2	U	1.00	0.110	ug/L	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	U	1
Xylenes, Total	1330-20-7	U	1.00	0.200	ug/L	U	1

Project: Fashion Care

Version: 1.007

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

***** Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 333113, **Project ID:** 08096

Lab Batch #: 760335 **Sample:** 530804-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/27/09 16:46

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50	50	100	46-167	
4-Bromofluorobenzene	47	50	94	57-158	
Toluene-D8	50	50	100	45-140	

Lab Batch #: 760335 **Sample:** 530804-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: ug/kg **Date Analyzed:** 05/27/09 17:39

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	61	50	122	46-167	
4-Bromofluorobenzene	54	50	108	57-158	
Toluene-D8	51	50	102	45-140	

Lab Batch #: 760335 **Sample:** 333113-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/27/09 19:50

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58	50	116	46-167	
4-Bromofluorobenzene	46	50	92	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 760335 **Sample:** 333113-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/27/09 20:17

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58	50	116	46-167	
4-Bromofluorobenzene	45	50	90	57-158	
Toluene-D8	49	50	98	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 333113, **Project ID:** 08096

Lab Batch #: 760335 **Sample:** 333113-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/27/09 20:43

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	57	50	114	46-167	
4-Bromofluorobenzene	46	50	92	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 760335 **Sample:** 333113-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/27/09 21:10

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	57	50	114	46-167	
4-Bromofluorobenzene	45	50	90	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 760335 **Sample:** 333113-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/27/09 21:36

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	57	50	114	46-167	
4-Bromofluorobenzene	45	50	90	57-158	
Toluene-D8	48	50	96	45-140	

Lab Batch #: 760335 **Sample:** 333113-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/27/09 22:02

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58	50	116	46-167	
4-Bromofluorobenzene	45	50	90	57-158	
Toluene-D8	49	50	98	45-140	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 333113, **Project ID:** 08096

Lab Batch #: 760335 **Sample:** 333113-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/27/09 22:55

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58	50	116	46-167	
4-Bromofluorobenzene	45	50	90	57-158	
Toluene-D8	48	50	96	45-140	

Lab Batch #: 760335 **Sample:** 333113-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/27/09 23:21

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58	50	116	46-167	
4-Bromofluorobenzene	45	50	90	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 760335 **Sample:** 333113-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: ug/kg **Date Analyzed:** 05/27/09 23:47

SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	58	50	116	46-167	
4-Bromofluorobenzene	45	50	90	57-158	
Toluene-D8	49	50	98	45-140	

Lab Batch #: 760431 **Sample:** 530853-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 05/28/09 17:31

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49.63	50.00	99	53-159	
4-Bromofluorobenzene	52.03	50.00	104	30-186	
Toluene-D8	48.47	50.00	97	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 333113, **Project ID:** 08096

Lab Batch #: 760431 **Sample:** 530853-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 05/28/09 18:36

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49.19	50.00	98	53-159	
4-Bromofluorobenzene	50.84	50.00	102	30-186	
Toluene-D8	48.70	50.00	97	70-130	

Lab Batch #: 760431 **Sample:** 333113-011 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 05/28/09 19:08

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48.98	50.00	98	53-159	
4-Bromofluorobenzene	51.32	50.00	103	30-186	
Toluene-D8	48.74	50.00	97	70-130	

Lab Batch #: 760431 **Sample:** 333113-010 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 05/28/09 20:11

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	50.31	50.00	101	53-159	
4-Bromofluorobenzene	50.97	50.00	102	30-186	
Toluene-D8	48.71	50.00	97	70-130	

Lab Batch #: 760431 **Sample:** 333535-002 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 05/29/09 02:45

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53.23	50.00	106	53-159	
4-Bromofluorobenzene	54.05	50.00	108	30-186	
Toluene-D8	48.47	50.00	97	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 333113, **Project ID:** 08096

Lab Batch #: 760431 **Sample:** 333535-002 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 05/29/09 03:14

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51.80	50.00	104	53-159	
4-Bromofluorobenzene	53.39	50.00	107	30-186	
Toluene-D8	48.32	50.00	97	70-130	

Lab Batch #: 760829 **Sample:** 531042-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 06/01/09 08:10

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	49	50.00	98	53-159	
4-Bromofluorobenzene	51	50.00	102	30-186	
Toluene-D8	46	50.00	92	70-130	

Lab Batch #: 760829 **Sample:** 531042-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 06/01/09 09:09

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	48.40	50.00	96	53-159	
4-Bromofluorobenzene	50.21	50.00	100	30-186	
Toluene-D8	46.20	50.00	92	70-130	

Lab Batch #: 760829 **Sample:** 333113-010 / DL **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 06/01/09 15:31

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	51.52	50.00	103	53-159	
4-Bromofluorobenzene	52.06	50.00	104	30-186	
Toluene-D8	50.64	50.00	101	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Fashion Care

Work Orders : 333113,

Project ID: 08096

Lab Batch #: 760829 **Sample:** 333939-004 S / MS **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 06/01/09 18:50

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	53	50.00	106	53-159	
4-Bromofluorobenzene	53	50.00	106	30-186	
Toluene-D8	51	50.00	102	70-130	

Lab Batch #: 760829 **Sample:** 333939-004 SD / MSD **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 06/01/09 19:22

SURROGATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	52	50.00	104	53-159	
4-Bromofluorobenzene	52	50.00	104	30-186	
Toluene-D8	50	50.00	100	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Fashion Care

Work Order #: 333113 **Project ID:** 08096

Lab Batch #: 760335 **Sample:** 530804-1-BKS **Matrix:** Solid
Date Analyzed: 05/27/2009 **Date Prepared:** 05/27/2009 **Analyst:** 4124
Reporting Units: ug/kg **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

Select VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<58	2500	2300	92	35-170	
Benzene	<26	2500	2400	96	38-158	
Toluene	<29	2500	2500	100	50-150	
Trichloroethene	<35	2500	2100	84	50-150	

Lab Batch #: 760431 **Sample:** 530853-1-BKS **Matrix:** Water
Date Analyzed: 05/28/2009 **Date Prepared:** 05/28/2009 **Analyst:** ANI
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

TCL VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<0.200	50.0	46.6	93	70-130	
Benzene	<0.160	50.0	54.8	110	80-120	
Chlorobenzene	<0.150	50.0	54.4	109	80-120	
Toluene	<0.140	50.0	52.7	105	75-120	
Trichloroethene	<0.190	50.0	54.1	108	70-125	

Lab Batch #: 760829 **Sample:** 531042-1-BKS **Matrix:** Water
Date Analyzed: 06/01/2009 **Date Prepared:** 06/01/2009 **Analyst:** ANI
Reporting Units: ug/L **Batch #:** 1 **BLANK /BLANK SPIKE RECOVERY STUDY**

TCL VOCs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1-Dichloroethene	<0.98	50	46	92	70-130	
Benzene	<0.67	50	47	94	80-120	
Chlorobenzene	<0.59	50	43	86	80-120	
Toluene	<0.68	50	42	84	75-120	
Trichloroethene	<0.72	50	47	94	70-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries

Project Name: Fashion Care

Work Order # : 333113 **Project ID:** 08096

Lab Batch ID: 760431 **QC- Sample ID:** 333535-002 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 05/29/2009 **Date Prepared:** 05/28/2009 **Analyst:** ANI

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<1.00	50.0	44.9	90	50.0	49.7	99	10	70-130	20	
Benzene	767	50.0	830	126	50.0	980	426	17	80-120	20	X
Chlorobenzene	<1.00	50.0	42.2	84	50.0	51.5	103	20	80-120	20	
Toluene	664	50.0	720	112	50.0	850	372	17	75-120	20	X
Trichloroethene	<1.00	50.0	43.9	88	50.0	52.3	105	17	70-125	20	

Lab Batch ID: 760829 **QC- Sample ID:** 333939-004 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 06/01/2009 **Date Prepared:** 06/01/2009 **Analyst:** ANI

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCL VOCs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1-Dichloroethene	<5.00	50.0	39.0	78	50.0	41.0	82	5	70-130	20	
Benzene	<5.00	50.0	44.0	88	50.0	46.0	92	4	80-120	20	
Chlorobenzene	<5.00	50.0	45.0	90	50.0	47.0	94	4	80-120	20	
Toluene	<5.00	50.0	44.0	88	50.0	46.0	92	4	75-120	20	
Trichloroethene	<5.00	50.0	45.0	90	50.0	46.0	92	2	70-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

XENCO Laboratories
Florida Testing Services, LLC

☐ 10200 USA Today Way, Miramar, FL 33025 954-431-4550
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☐ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

☐ Philadephia/New Jersey 610-955-5649
☐ South Carolina 803-543-8099 ☐ Other

Serial #: 248265 Page 1 of 2

Company-City: Winter Environmental
Phone: 404 588 3300
Lab Only: WO# 333113
Proj Name-Location: Fashion Care ☐ Previously done at XENCO
Project ID: 08096
TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.
Proj State: AL, FL (GA) LA, MS, NC, NJ, PA, SC, TN, TX, UT Other
Proj. Manager (PM): Len Diprima
e-Mail Results to ☑ PM or Fax No:
ldiprima@winter-environmental.com
Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O
Bill to:
Quote/Pricing: P.O No: 08096 ☐ Call for P.O.
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA (HSRA)
QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)
Sampler Name: Greg Muse Signature:

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs	VOCs PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs	FL PRO DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCL PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	VOCs see attached sheet	TAT ASAP 5h 12h 24h 48h 3d 5d (7d) 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Sample Clean-ups are pre-approved as needed	Remarks	
1	SB-34 (0-2')	5/18/09	1100		S		X	4													X	X					1
2	SB-34 (2.5-4.5')		1105		S		X	4													X	X					2
3	SB-34 (5-7')		1110		S		X	4													X	X					3
4	SB-35 (0-2')		1000		S		X	4													X	X					4
5	SB-35 (2.5-4.5')		1020		S		X	4													X	X					5
6	SB-35 (5-7)		1025		S		X	4													X	X					6
7	SB-36 (0-2')		1035		S		X	4													X	X					7
8	SB-36 (3-5')		1040		S		X	4													X	X					8
9	SB-36 (6-8')		1045		S		X	4													X	X					9
10	IDW851809		1400		W		X	2													X	X					10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) GTM	5/18/09 3:23	2) Dario Laguna	5/18/09 15:25
3)		4)	
5)		6)	

Total Containers per COC: 40 Cooler Temp: 2°C

Upon signings this COC you accept XENCO terms and Conditions unless otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved.

Preservatives: Various (**V**), HCl pH<2 (**H**), H2SO4 pH<2 (**S**), HNO3 pH<2 (**N**), Asbc Acid&NaOH (**A**), ZnAc&NaOH (**Z**), (Cool,<4C) (**C**), None (**NA**), See Label (**L**), Other (**O**) _____

Cont. Size: 4oz (**4**), 8oz (**8**), 32oz (**32**), 40ml VOA (**40**), 1L (**1**), 500ml (**5**), Tedlar Bag (**B**), Various (V), Other _____ **Cont. Type:** Glass Amb (**A**), Glass Clear (**C**), Plastic (**P**), Various (**V**)

Matrix: Air (**A**), Product (**P**), Solid(**S**), Water (**W**), Liquid (**L**)

Committed to Excellence in Service and Quality *www.xenco.com*

Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previoiusly negotiated under a fully executed client contract.

XENCO Laboratories

☐ 5757 N.W. 158th Street, Miami Lakes, Fl 33014 305-823-8500
☐ 2505 Falkenburg Rd, Tampa, Fl 33569 813-620-2000
☐ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800
☐ Philadephia/New Jersey 610-955-5649

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 223310

Company-City: Winter Environmental
Phone: 404 588 3300
Lab Only: WO# 333113

Proj Name-Location: Fashion Care ☐ Previously done at XENCO
Project ID: 08096

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific.
It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Proj State: AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, TX, UT Other
Proj. Manager (PM): Len Diprima

Fax Results to ☐ PM or
e-mail to: Len
Fax No:

Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O Bill to:

Quote/Pricing:
P.O No: 08096 ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA

QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

LPST No.:

Sampler Name: Greg Muse
Signature:

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs BTEX-MTBE VOHs VOAs PP TCL Appdx 1 Appdx 2	Method: 8260 8021 624 524	PAHs: 8270 8100 8310 8270_SIM	TRPH by FL PRO DRO GRO MA EPH MA VPH	SVOCs: 8270 625 - (BN&AE) (TCL) (PP) (Appdx 2)	Pest. (8081 / 608) PCBs (8082 / 608) Herb. (8151 / 615)	EDB / DBCP (8011 / 504)	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	Metals Methods: 6020 / 6010 / 200.8 / 7470 / 7471	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	FL Preburn: Virgin Non-Virgin	+ VOCs see attached sheet							TAT ASAP 5h 12h 24h 48h 3d 5d (7d) 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Remarks: Sample Clean-ups are pre-approved as needed			Rcv by: Date Addn: From:
1	TRIP BLANK	5/18/09	—		W			2															+							X							1
2																																					2
3																																					3
4																																					4
5																																					5
6																																					6
7																																					7
8																																					8
9																																					9
10																																					10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) GTM	5/18/09 3:25	2) David Lagmar	5/18/09 15:25
3)		4)	
5)		6)	

Total Containers per COC: 40 Cooler Temp: 2°C

All XENCO Standard Terms and Conditions Apply.

Rush Charges are Pre-Approved upon Requesting them.

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O) _____

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tedlar Bag (B), Wipe (W), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Other (O) _____

Matrix: Air (A), Product (P), Solid(S), Water (W)

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WO # 333113

Laboratory Analysis List
Fashion Care/Executive Care Site
Winter Environmental Project No. 08096

- VOCs (soil):
  - Tetrachloroethene (PCE)
  - cis-1, 2-Dichloroethene
  - trans-1, 2-Dichloroethene
  - 1, 1-Dichloroethene (1,1-DCE)
  - Trichloroethene (TCE)
  - Vinyl Chloride (VC)
  - Benzene
  - Toluene
  - Ethylbenzene
  - Total Xylenes
  - Cyclohexane
  - Isopropylbenzene
  - 1, 1-Dichloroethane
  - Acetone
- VOCs (groundwater): TCL List
- BOD & COD (groundwater)
- Anions (groundwater): sodium, chlorides, SO4, dissolved Iron

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: WINTER ENVIRONMENTAL.

Date/ Time: 05/18/09 15:25

Lab ID # : 333113

Initials: DL

Sample Receipt Checklist

#1	Temperature of cooler?			2	°C
#2	Shipping container in good condition?	YES	No	None	
#3	Samples received on ice?	YES	No	N/A	Blue/Water
#4	Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	N/A	
#6	Chain of Custody present?	YES	No		
#7	Sample instructions complete of Chain of Custody?	YES	No		
#8	Any missing/extra samples?	Yes	NO		
#9	Chain of Custody signed when relinquished/ received?	YES	No		
#10	Chain of Custody agrees with sample label(s)?	YES	No		
#11	Container label(s) legible and intact?	YES	No		
#12	Sample matrix/ properties agree with Chain of Custody?	YES	No		
#13	Samples in proper container/ bottle?	YES	No		
#14	Samples properly preserved?	YES	No	N/A	
#15	Sample container(s) intact?	YES	No		
#16	Sufficient sample amount for indicated test(s)?	YES	No		
#17	All samples received within sufficient hold time?	YES	No		
#18	Subcontract of sample(s)?	Yes	NO		
#19	VOC samples have zero headspace?	YES	No	N/A	

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

ATTACHMENT D
EXOTECH, INC. TREATABILITY STUDY REPORT

WINTER ENVIRONMENTAL

EXOTECH, INC.
Chemical Oxidation and Environmental Remediation

Office: 770-564-1444/Fax: 770-923-1166

December 23, 2008

Len J. Diprima, Jr., P.G.
Winter Environmental
3350 Green Pointe Parkway, Suite 200
Norcross, Georgia 30092

Subject: Treatability Study Summary
Fashion Care Cleaners
2211 Savoy Drive
Chamblee, Dekalb County, Georgia

A treatability study was done in order to determine the oxidant mix, volume, and dosing to best suit the site characteristics. In this case, tests with sodium persulfate activated with chelated iron (FeEDTA) were conducted. The oxidant mixes were evaluated based on the following criteria:

- contaminant species
- soil oxidant demand
- total oxidant demand
- contaminant oxidation
- lifetime in the subsurface
- oxidation speed

Samples of soil were taken from MW-1 and a groundwater sample was taken from MW-4 which were thought to be the areas with the highest concentrations of PCE. The soil had levels of PCE at 5,280 ppb, TCE at 13,280 ppb, cis 1,2-DCE at 48,480 ppb and vinyl chloride at 3,200 ppb. The groundwater showed levels of PCE at 5,160 ppb, TCE at 440 ppb, cis 1,2-DCE at 896 ppb and vinyl chloride was non-detect. The samples were treated with a 30% solution by weight of sodium persulfate that was activated with FE EDTA (chelated iron). After two weeks, the levels of the soil decreased to non-detect for PCE, TCE, cis 1,2-DCE and vinyl chloride. The groundwater sample levels went to 651 ppb for PCE, 662 ppb for TCE, 1,250 ppb for cis 1,2-DCE and 5.5 ppb for vinyl chloride. After four weeks of treatment, the levels of PCE, TCE, cis 1,2-DCE and vinyl chloride all went to non-detect in the groundwater sample.

EXOTECH, INC.
Chemical Oxidation and Environmental Remediation

Office: 770-564-1444/Fax: 770-923-1166

Based on the treatability testing, site information and our experience, it was decided to use an oxidant blend that consisted of a 28% solution of sodium persulfate by weight. In the field this would be equivalent to four bags of sodium persulfate per one hundred gallons of water. We would use chelated iron as the activator as it showed to be effective with the samples. Based on our observations during drilling and the well locations, it was further decided to inject 100 gallons of oxidant blend into each well. Parameters would be taken during the injections to make sure that this volume would give us the appropriate radius of influence we needed based on the well spacing.

Please contact us if you have questions or need further information. Thank you for the opportunity to serve your need on this project.

Sincerely,

Brett Ellington
Chemical Engineer

ATTACHMENT E
UNDERGROUND INJECTION PERMIT

WINTER ENVIRONMENTAL

Georgia Department of Natural Resources
2 Martin Luther King Jr. Drive, S.E., East Tower, Atlanta, Georgia 30334
Noel Holcomb, Commissioner
Carol A. Couch, Director
Environmental Protection Division
(404) 656-4713

Reply To:
Regulatory Support Program
Suite 400
19 Martin Luther King Jr. Drive, S.W.
Atlanta, Georgia 30334
(404) 656-3214

January 23, 2009

Item IV Trust U/W John F. Rowan
Ms. Nan Kittrell, Representative
1270 Hestertown Road
Madison, GA 30650

RE: Underground Injection Control Permit #393 for Injection of Sodium Persulfate, Fashion Care/Executive Care Dry Cleaners Site located in Chamblee, Georgia (HSI #10786).

Dear Ms. Kittrell:

Enclosed is Underground Injection Control (UIC) Permit #393 for the Fashion Care/Executive Care Dry Cleaners site located in Chamblee, Georgia. This UIC permit allows Item IV Trust U/W John F. Rowan to utilize injection of sodium persulfate through twenty (20) injection wells to assist with the remediation of soil and ground water contaminated with chlorinated solvents at this site for up to five (5) years. The UIC permit states two (2) standard conditions and seven (7) additional conditions in the attachment.

If you have any questions about the permit, please contact Mr. Bijan Rahbar, UIC Coordinator, at (404) 656-3229.

Sincerely,

Carol A. Couch
Director

Enclosure

cc: UIC Permit #393 file
Leonard J. Diprima, Winter Environmental
Jason Metzger, EPD-HWMB

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

INJECTION WELL OPERATING PERMIT

PERMIT NUMBER: #393 **DATE ISSUED: January 23, 2009**

FACILITY DATA: **INJECTION WELL TYPE: CLASS V (type 5X26)**

FACILITY: Fashion Care/Executive Care
Dry Cleaners Site
2211 Savoy Road
Chamblee, Georgia
Dekalb County

OPERATOR: Item IV Trust U/W
John F. Rowan
Ms. Nan Kittrell, Representative
1270 Hestertown Road
Madison, GA 30650

LOCATION: Lat: 33° 55' 08.75"N
Long: 84° 17' 52.83"W

EPD-HSI #10786

In accordance with the provisions of the Georgia Rules for Underground Injection Control, Chapter 391-3-6-.13, as amended 2001, this permit is issued for the operation of the herein described injection system. This permit is effective immediately, unless appealed within thirty (30) days after its issuance and is conditioned upon the following:

1) The Permittee's continued compliance with the Georgia Rules for Underground Injection Control, Chapter 391-3-6-.13, the Georgia Rules for Water Quality Control (Revised) and the Georgia Rules for Safe Drinking Water (Revised); and

2) The Permittee's continued compliance with the Permittee's approved injection operation plan that is part of the approved Corrective Action Plan for this site, along with provisions of officially approved plan amendments, if any.

Additional conditions 1 through 7 are attached hereto.

This permit is issued in accordance with the application and supplemental information received on January 8, 2009. The injection operation plan was approved on January 23, 2009, and is based on the statements and supporting data entered herein or attached thereto, all of which are filed with the Environmental Protection Division of the Georgia Department of Natural Resources and hereby made a part of this permit.

This permit is subject to revocation for noncompliance with aforementioned conditions.
This permit expires on **January 23, 2014,** unless previously terminated.

Carol A. Couch, Director, Environmental Protection Division
Georgia Department of Natural Resources

INJECTION WELL OPERATING PERMIT
ADDITIONAL CONDITIONS

1. Permit Conditions.

   a. This permit is not transferable until any new operator shall agree in writing to all permit conditions. Any new operator also shall provide the Environmental Protection Division (Division) with appropriate documentation that they have adequate financial assurances to plug all existing Class V wells.

   b. If Item IV Trust U/W John F. Rowan (Operator) wishes to continue an activity regulated by this permit after the expiration of the permit, the Operator must apply for and obtain a new permit.

   c. The Operator shall report any instances of noncompliance with permit conditions to the Division in writing within five (5) working days of such noncompliance, and shall take all reasonable steps to minimize the impact on the environment resulting from noncompliance with this permit and the Georgia Rules for Underground Injection Control.

   d. The Operator shall notify the Division of any proposed changes to the performance of the sodium persulfate injection system in writing at least thirty (30) days prior to the change.

   e. All reports submitted to the Division shall be signed and stamped by a Georgia Registered Professional Engineer or Professional Geologist.

   f. All analyses shall be performed by a laboratory approved or accredited by EPD in accordance with the Georgia Rules for Commercial Laboratory Accreditation, Chapter 391-3-26.

2. System Parameters.

   a. This permit is issued to the Operator for the purpose of operating a sodium persulfate injection system at the above referenced site to aid in remediation of soil and ground water contaminated with chlorinated solvents.

   b. Number of Class V injection wells: twenty.

   c. Injected fluid: sodium persulfate.

   d. Maximum injection volume per well: 100 gallons of liquid/day (gpd)/well.
      Maximum total system injection volume: 2,000 gpd.

   e. Maximum daily average injection pressure (at well head): gravity.

Additional Conditions, UIC Permit #393, January 23, 2009, cont.

3. Monitoring and Reporting Requirements.

   a. The Operator shall report to the Underground Injection Control Program of the Division the number and exact location of all Class V injection wells it installs or plugs on a quarterly basis. The reports are to be submitted to the UIC Program in accordance with the reporting schedule stipulated by the Hazardous Waste Management Branch.

   b. The Operator shall submit to the Division for its approval, a detailed schematic diagram and location map on any Class V injection well that is different in construction from the specifications contained in the UIC permit application, no later than 45 days prior to installation of the injection well. The Operator cannot install such a well until it receives approval from the Division.

   c. The Operator shall submit to the UIC Program one (1) copy of any report regarding this site that the Operator is required to submit to the Hazardous Waste Management Branch.

   d. The Operator shall submit to the UIC Program an annual report that will contain the following information.

      1. Status of the injection system operation;

      2. Results of any ground-water sampling and analyses;

      3. Results of any soil sampling and analyses;

      4. An evaluation of the plume movement through the ground water, if any;

      5. Comparisons of analyses to determine any changes in pollutant concentrations.

   The annual reports will be provided to the UIC Program in accordance with the schedule stipulated by the Hazardous Waste Management Branch.

4. Emergency Situations.

   a. The Operator is to immediately notify the Division of any emergency situation that affects the injection system and describe the remedial activity that the Operator is utilizing to correct the situation.

   b. The Operator is to immediately notify the Division when the emergency situation ceases to exist.

5. The Operator shall grant the Division permission to enter the facility property to conduct inspections of the injection system.

Additional Conditions, UIC Permit #388, December 19, 2008, cont.

6. The Operator shall maintain a copy of this permit at the facility site.

7. The Operator shall, upon termination of the injection of the sodium persulfate through twenty Class V injection wells at this site, properly plug and abandon all Class V wells constructed on this site in accordance with EPD's *Manual for Groundwater Monitoring* (September 1991) and notify the division within thirty (30) days of such termination and abandonment.

ATTACHMENT F
EXOTECH, INC. INJECTION SUMMARY REPORT

WINTER ENVIRONMENTAL

EXO TECH, INC.
Chemical Oxidation and Environmental Remediation

Office: 770-564-1444/Fax: 770-923-1166

March 26, 2009

Len J. Diprima, Jr. P.G.
Winter Environmental
3350 Green Pointe Parkway, Suite 200
Norcross, Georgia 30092

Subject: Injection Summary
Fashion Care Cleaners
2211 Savoy Drive
Chamblee, Dekalb County, Georgia

Site Description:

The site is an active dry cleaners that has had multiple releases of tetrachloroethene (PCE) into the soil and groundwater. In addition, a BTEX plume from a release at the gas station next door has migrated onto this site and co-mingled with the PCE plume. We treated an area of approximately 2,800 square feet that covered both inside and outside of the building to treat around the source area. The purpose of this treatment was to lower detectable PCE in the soil.

Injection Well Installation:

Prior to the installation of the injection wells, **Exo Tech** contacted the Utility Protection Center (UPC) to locate the utilities outside of the building. Since we were not sure what was underneath the building, all of the wells inside of the building were hand augered by **Exo Tech**. A total of -7- one inch injection wells were installed outside of the building and a total of -14- one inch injection wells were installed inside of the building. These wells were installed to a depth of 12 feet below ground surface (bgs). In addition, -3- shallow injection wells were installed inside the building to better cover the source area. These wells were installed to 2 feet bgs in order to treat the soil just underneath the slab. See attached map for numbering and placement of wells. All of the injection wells were constructed in a similar fashion. See attached diagrams for injection well construction details.

Injection summary:

See attached Table 1 for the injection summary.

The injections went well as there was only one occurrence of minimal daylighting (IW-5) and no prolonged injection times at any of the wells.

EXO TECH, INC.
Chemical Oxidation and Environmental Remediation

Office: 770-564-1444/Fax: 770-923-1166

Treatment Summary:

Injection dates:	3/18/09 - 3/19/09
Total number of wells injected into:	24
Total weight of Persulfate injected:	4,840 lbs.
Total weight of Chelated Iron injected:	66 lbs.
Total volume of solution injected:	2,200 gals.

Recommendations:

Exo Tech recommends the collection of confirmatory groundwater samples approximately 30-60 days following the last date of injection (2/26/2009).

Please contact us if you have questions or need further information. Thank you for the opportunity to serve your need on this project.

Sincerely,

Brett Ellington
Chemical Engineer

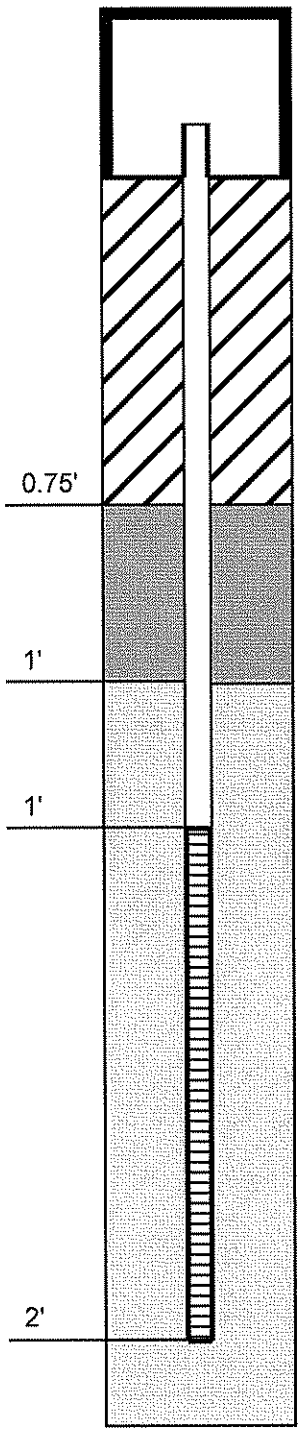
EXOTECH, INC.
INJECTION WELL CONSTRUCTION DETAILS

DRILLING FIRM: EXO TECH, INC. **SUPERVISING GEOLOGIST:** KEN SUMMEROUR, P.G.

PROJECT NAME: FASHION CARE DRY CLEANERS

PROJECT LOCATION: SAVOY DRIVE, CHAMBLEE, GEORGIA

INJECTION WELL NO.: IW-6, IW-7 & IW-9 **DATE OF INSTALLATION:** 1/22/09 - 1/23/09



STEEL, BOLT-DOWN WELL VAULT ENCLOSED IN CONCRETE PAD WITH FLUSH FITTING PVC CAP

WELL RISER

MATERIAL:	PVC
DIAMETER:	1 INCHES
JOINT TYPE:	FLUSH THREADED
LENGTH:	1 FEET

SECOND SEAL

TYPE OF SEAL:	PORTLAND CEMENT
THICKNESS:	0.75 FEET

FIRST SEAL

TYPE OF SEAL:	BENTONITE CRUMBLES
THICKNESS:	0.25 FEET IN 4 INCH LIFTS

FILTER PACK

TYPE OF FILTER:	SAND
DISTANCE ABOVE SCREEN:	0 FEET

WELL SCREEN

SCREEN MATERIAL:	PVC
DIAMETER:	1 INCHES
LENGTH:	1 FOOT
SLOT SIZE:	0.010 INCHES

DEPTH TO BOTTOM OF INJECTION WELL: 2 FEET

DEPTH TO BOTTOM OF FILTER SAND: 2 FEET

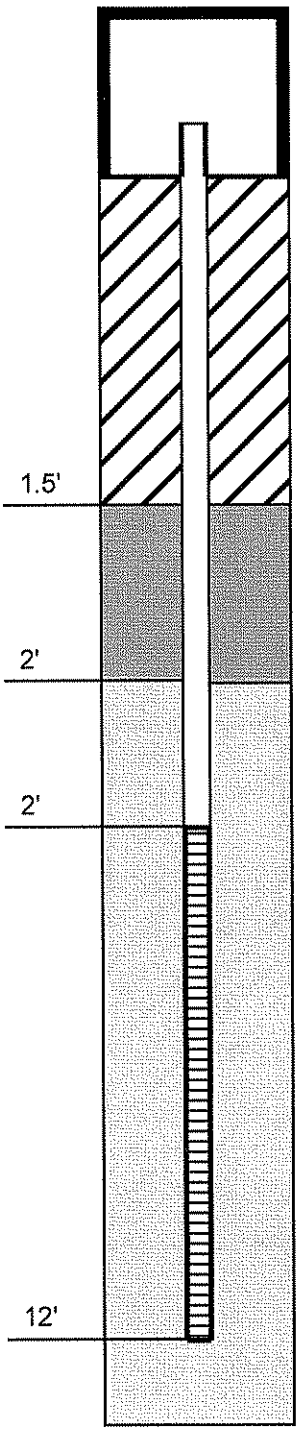
EXOTECH, INC.
INJECTION WELL CONSTRUCTION DETAILS

DRILLING FIRM: EXO TECH, INC. **SUPERVISING GEOLOGIST:** KEN SUMMEROUR, P.G.

PROJECT NAME: FASHION CARE DRY CLEANERS

PROJECT LOCATION: SAVOY DRIVE, CHAMBLEE, GEORGIA

INJECTION WELL NO.: IW-1 thru IW-5, IW-8, IW-10 thru IW-17 **DATE OF INSTALLATION:** 1/22/09 - 1/23/09



STEEL, BOLT-DOWN WELL VAULT ENCLOSED IN CONCRETE PAD WITH FLUSH FITTING PVC CAP

WELL RISER

MATERIAL:	PVC
DIAMETER:	1 INCHES
JOINT TYPE:	FLUSH THREADED
LENGTH:	2 FEET

SECOND SEAL

TYPE OF SEAL:	PORTLAND CEMENT
THICKNESS:	1.5 FEET

FIRST SEAL

TYPE OF SEAL:	BENTONITE CRUMBLES
THICKNESS:	0.5 FEET IN 4 INCH LIFTS

FILTER PACK

TYPE OF FILTER:	SAND
DISTANCE ABOVE SCREEN:	0 FEET

WELL SCREEN

SCREEN MATERIAL:	PVC
DIAMETER:	1 INCHES
LENGTH:	10 FEET
SLOT SIZE:	0.010 INCHES

DEPTH TO BOTTOM OF INJECTION WELL: 12 FEET

DEPTH TO BOTTOM OF FILTER SAND: 12 FEET

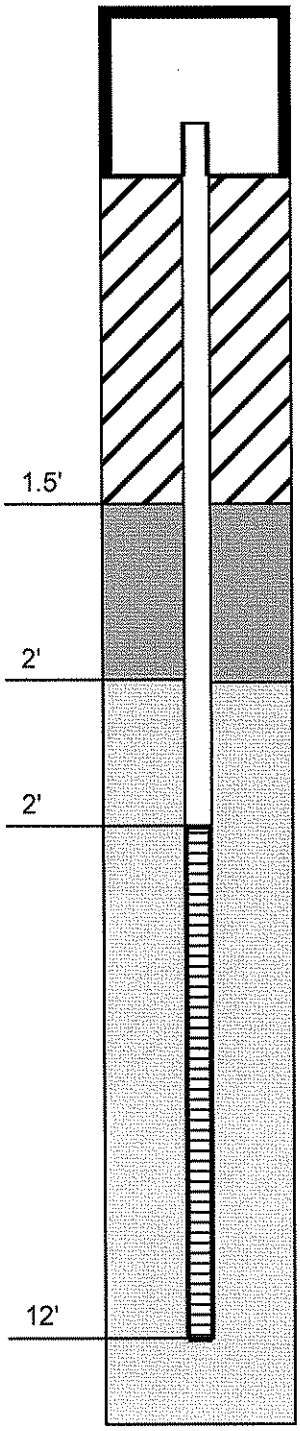
EXOTECH, INC.
INJECTION WELL CONSTRUCTION DETAILS

DRILLING FIRM: ATLAS GEO-SAMPLING **SUPERVISING GEOLOGIST:** KEN SUMMEROUR, P.G.

PROJECT NAME: FASHION CARE DRY CLEANERS

PROJECT LOCATION: SAVOY DRIVE, CHAMBLEE, GEORGIA

INJECTION WELL NO.: IW-18 thru IW-24 **DATE OF INSTALLATION:** 1/22/09 - 1/23/09



STEEL, BOLT-DOWN WELL VAULT ENCLOSED IN CONCRETE PAD WITH FLUSH FITTING PVC CAP

WELL RISER

MATERIAL:	PVC
DIAMETER:	1 INCHES
JOINT TYPE:	FLUSH THREADED
LENGTH:	2 FEET

SECOND SEAL

TYPE OF SEAL:	PORTLAND CEMENT
THICKNESS:	1.5 FEET

FIRST SEAL

TYPE OF SEAL:	BENTONITE CRUMBLES
THICKNESS:	0.5 FEET IN 4 INCH LIFTS

FILTER PACK

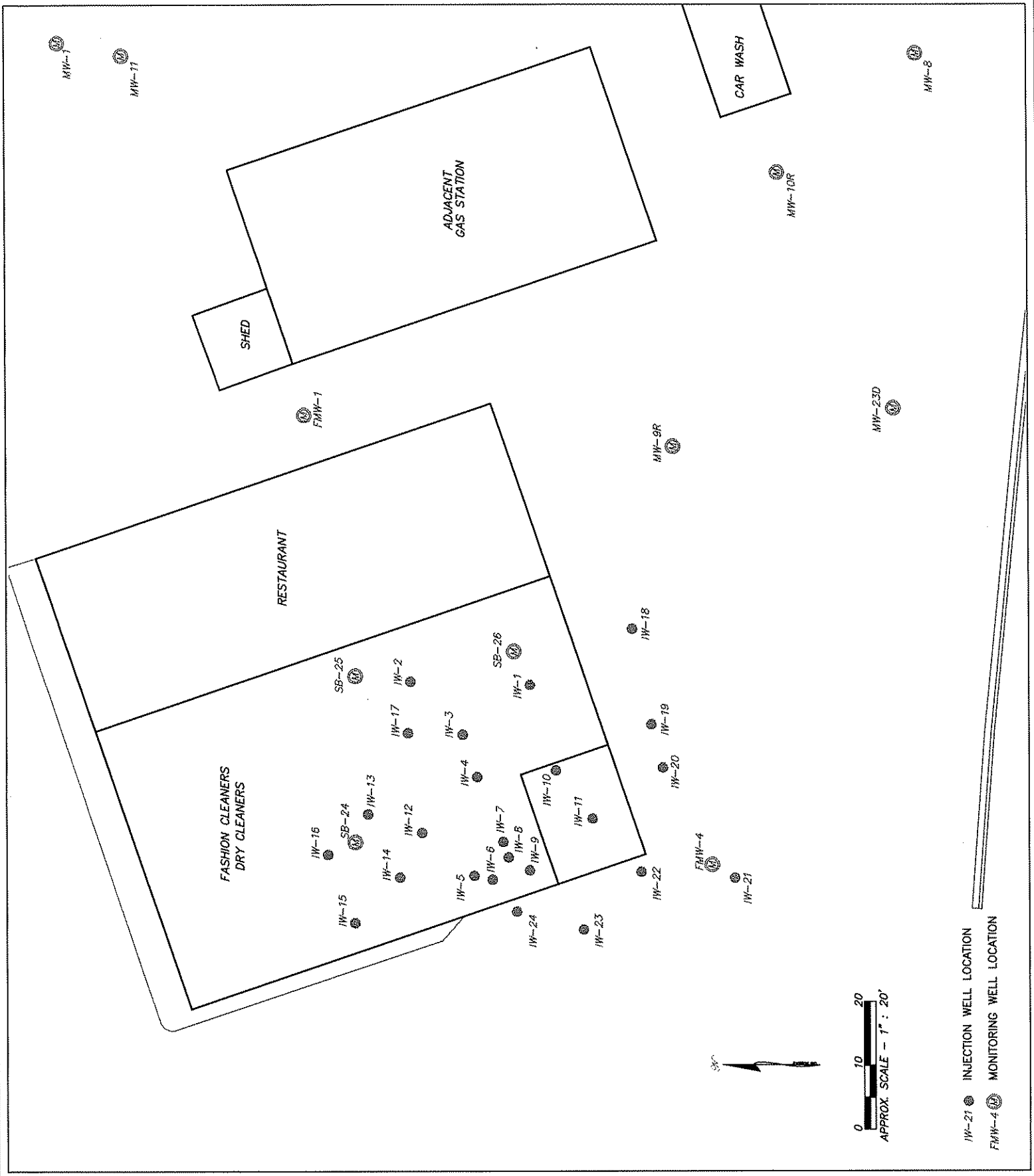
TYPE OF FILTER:	SAND
DISTANCE ABOVE SCREEN:	0 FEET

WELL SCREEN

SCREEN MATERIAL:	PVC
DIAMETER:	1 INCHES
LENGTH:	10 FEET
SLOT SIZE:	0.010 INCHES

DEPTH TO BOTTOM OF INJECTION WELL: 12 FEET

DEPTH TO BOTTOM OF FILTER SAND: 12 FEET



EX·TECH, INC.

DATE:	3/30/09
DRAWN BY:	ADL
CHECKED:	BE
SCALE:	APPROX. 1" ; 20'

FIGURE NUMBER

1

FASHION CARE CLEANERS
2211 SAVOY DRIVE
CHAMBLEE, DEKALB COUNTY, GEORGIA

INJECTION WELL LOCATIOIN MAP

TABLE 1 - SODIUM PERSULFATE INJECTION DATA
Fashion Care
2211 Savoy Drive
Chamblee, Dekalb County, Georgia

Well ID	Date	Amount Oxidant Injected (gal)	Amount Persulfate Injected (lbs)	Time/ Comments
IW-1	3/18/09	100	220	33 minutes
IW-2	3/18/09	100	220	48 minutes
IW-3	3/18/09	100	220	44 minutes
IW-4	3/18/09	100	220	48 minutes
IW-5	3/18/09	100	220	39 minutes
IW-6	3/18/09	50	110	14 minutes
IW-7	3/18/09	100	220	32 minutes
IW-8	3/18/09	100	220	57 minutes
IW-9	3/18/09	50	110	16 minutes
IW-10	3/18/09	100	220	27 minutes
IW-11	3/18/09	100	220	30 minutes
IW-16	3/18/09	100	220	45 minutes
IW-17	3/18/09	100	220	45 minutes
Total Injected		1200	2640	

* 3lbs of chelated iron used per 100 gallon batch.

TABLE 1 - SODIUM PERSULFATE INJECTION DATA
Fashion Care
2211 Savoy Drive
Chamblee, Dekalb County, Georgia

Well ID	Date	Amount Oxidant Injected (gal)	Amount Persulfate Injected (lbs)	Time/ Comments
IW-12	3/19/09	100	220	55 minutes
IW-13	3/19/09	50	110	20 minutes
IW-14	3/19/09	50	110	36 minutes
IW-15	3/19/09	100	220	50 minutes
IW-18	3/19/09	100	220	29 minutes
IW-19	3/19/09	100	220	19 minutes
IW-20	3/19/09	100	220	23 minutes
IW-21	3/19/09	100	220	26 minutes
IW-22	3/19/09	100	220	33 minutes
IW-23	3/19/09	100	220	60 minutes
IW-24	3/19/09	100	220	25 minutes
Total Injected		1000	2200	
Grand Total		2200	4840	

* 3lbs of chelated iron used per 100 gallon batch.

ATTACHMENT G
REVISED PROJECT SCHEDULE

WINTER ENVIRONMENTAL

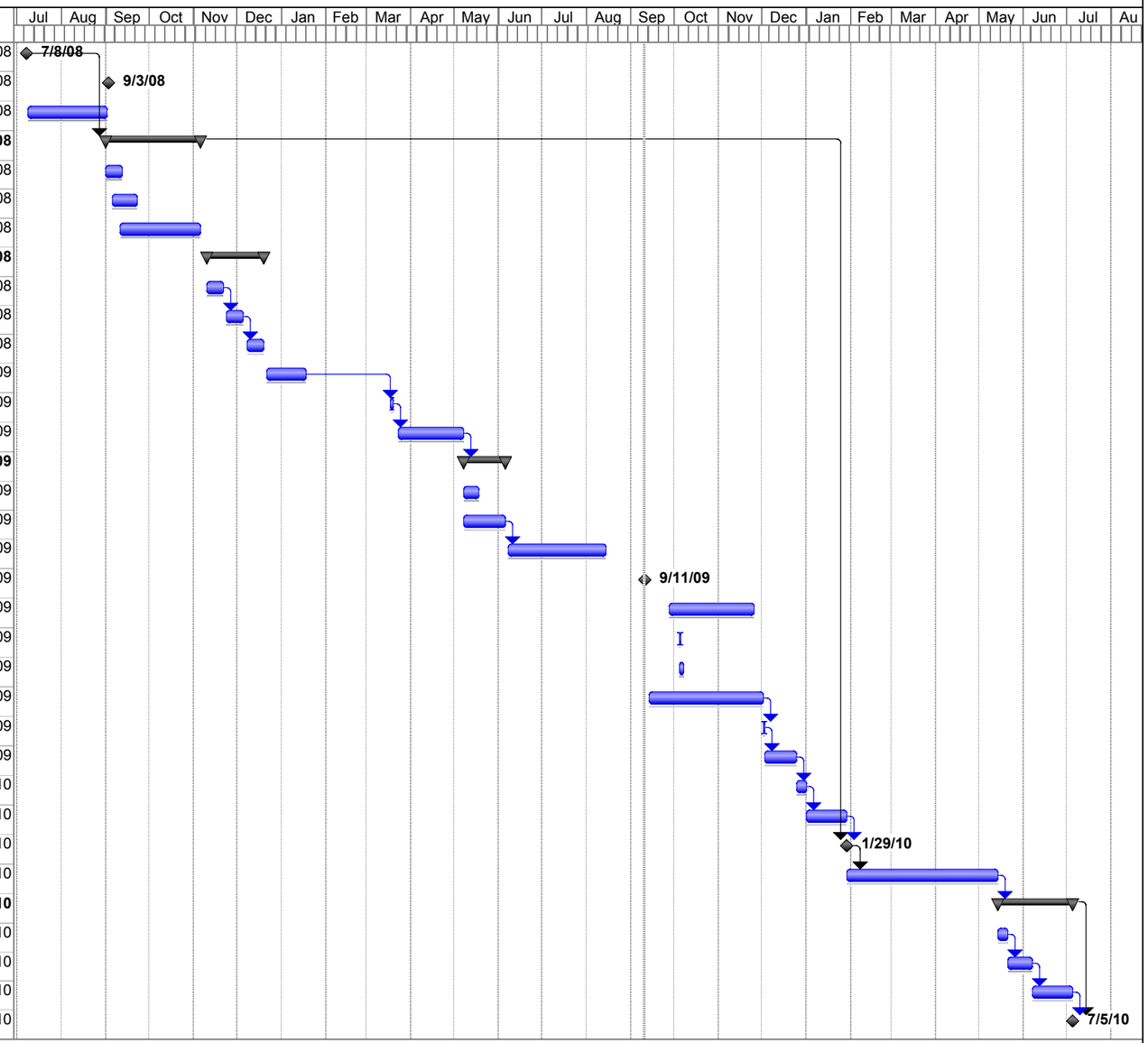
Updated Schedule of Events

Fashion Care/Executive Care HSRA Site

HSI Site No. 10786

2211 Savoy Drive, Chamblee, Georgia

ID	Task Name	Start	Finish
1	**Meeting w/EPD HSRA & UST (EPD-UST unavailable)**	Tue 7/8/08	Tue 7/8/08
2	**Meeting w/EPD UST & HSRA**	Wed 9/3/08	Wed 9/3/08
3	**Obtain Surrounding Property Access & Monitoring Well Access**	Wed 7/9/08	Mon 9/1/08
4	**Fieldwork & Treatability Study**	**Mon 9/1/08**	**Wed 11/5/08**
5	Sample Collection (groundwater/soil/surface water/treatability)	Mon 9/1/08	Fri 9/12/08
6	Laboratory Analysis of Samples	Fri 9/5/08	Mon 9/22/08
7	Treatability Study	Thu 9/11/08	Wed 11/5/08
8	**Additional Horizontal Groundwater Delineation**	**Mon 11/10/08**	**Fri 12/19/08**
9	Obtain Property Access for additional Monitoring Wells	Mon 11/10/08	Fri 11/21/08
10	Install & Sample Additional Shallow Wells	Mon 11/24/08	Fri 12/5/08
11	Laboratory Analysis	Mon 12/8/08	Fri 12/19/08
12	**Obtain Underground Injection Permit**	Mon 12/22/08	Sun 1/18/09
13	**Soil Remediation by Chemical Oxidation**	Wed 3/18/09	Thu 3/19/09
14	**Chemical/Contaminant Interaction**	Mon 3/23/09	Thu 5/7/09
15	**Post-Treatment Soil Verification Sampling**	**Fri 5/8/09**	**Fri 6/5/09**
16	Soil Sample Collection	Fri 5/8/09	Mon 5/18/09
17	Laboratory Analysis of Samples	Fri 5/8/09	Fri 6/5/09
18	**Evaluation of Soil Data Groundwater Mounding, Sump, Facility Waste Practices, Etc.**	Mon 6/8/09	Fri 8/14/09
19	**Post-Soil Remediation Update Report to EPD**	Fri 9/11/09	Fri 9/11/09
20	**Second Chemical Oxidation Treatability Study for Soil**	Mon 9/28/09	Wed 11/25/09
21	**Collect Surface Water Samples**	Mon 10/5/09	Mon 10/5/09
22	**Additional Soil Delineation of Source Area (if necessary)**	Mon 10/5/09	Wed 10/7/09
23	**Re-Evaluate Soil Remedial Options**	Mon 9/14/09	Wed 12/2/09
24	**Propose New Soil Remediation Method to EPD and/or Schedule for Additional Chemical Oxidation**	Wed 12/2/09	Thu 12/3/09
25	**Evaluate & Select Groundwater Remedial Options**	Thu 12/3/09	Fri 12/25/09
26	**Install & Sample Deep Vertical Delineation Monitoring Well**	Fri 12/25/09	Fri 1/1/10
27	**Pre-Groundwater Remediation/CAP Addendum Report Preparation**	Fri 1/1/10	Fri 1/29/10
28	**Report Submittal to EPD**	Fri 1/29/10	Fri 1/29/10
29	**Design & Initiate Selected Groundwater Remediation Method**	Fri 1/29/10	Fri 5/14/10
30	**Initial Quarterly Groundwater/Surface Water Monitoring**	**Fri 5/14/10**	**Mon 7/5/10**
31	Sample Collection (groundwater/surface water)	Fri 5/14/10	Fri 5/21/10
32	Laboratory Analysis of Samples	Fri 5/21/10	Mon 6/7/10
33	Initial Post-Treatment Monitoring Report Preparation	Mon 6/7/10	Mon 7/5/10
34	**Report Submittal to EPD**	Mon 7/5/10	Mon 7/5/10



Winter Environmental
Updated Project Schedule 091009
Thu 9/10/09

Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

ATTACHMENT H

ADDITIONAL RESPONSIBLE PARTIES – CONTACT LIST

WINTER ENVIRONMENTAL

FORMER DRY CLEANING OPERATORS

ES Clothing Care/Clothing Care Cleaners, Inc.
Eul Hwan Kim, President
9971 Carrington Lane
Alpharetta, Georgia 30022

Eul Hwan Kim (individually)
9971 Carrington Lane
Alpharetta, Georgia 30022

Sung D. (John) Chung, President
Executive Clothing Care #11
925 Old Park Court
Roswell, Georgia 30075-3254

Sung D. (John) Chung (individually)
925 Old Park Court
Roswell, Georgia 30075-3254

Fashion Care, Inc.
c/o Mr. Ron Patrie
Registered Agent
3401 Northside Parkway
Atlanta, Georgia 30327

Mr. James R. Patrie (individually)
3401 Northside Parkway
Atlanta, Georgia 30327

EXOTECH, INC.
Chemical Oxidation and Environmental Remediation

Office: 770-564-1444/Fax: 770-923-1166

December 23, 2008

Len J. Diprima, Jr., P.G.
Winter Environmental
3350 Green Pointe Parkway, Suite 200
Norcross, Georgia 30092

Subject: Treatability Study Summary
Fashion Care Cleaners
2211 Savoy Drive
Chamblee, Dekalb County, Georgia

A treatability study was done in order to determine the oxidant mix, volume, and dosing to best suit the site characteristics. In this case, tests with sodium persulfate activated with chelated iron (FeEDTA) were conducted. The oxidant mixes were evaluated based on the following criteria:

- contaminant species
- soil oxidant demand
- total oxidant demand
- contaminant oxidation
- lifetime in the subsurface
- oxidation speed

Samples of soil were taken from MW-1 and a groundwater sample was taken from MW-4 which were thought to be the areas with the highest concentrations of PCE. The soil had levels of PCE at 5,280 ppb, TCE at 13,280 ppb, cis 1,2-DCE at 48,480 ppb and vinyl chloride at 3,200 ppb. The groundwater showed levels of PCE at 5,160 ppb, TCE at 440 ppb, cis 1,2-DCE at 896 ppb and vinyl chloride was non-detect. The samples were treated with a 30% solution by weight of sodium persulfate that was activated with FE EDTA (chelated iron). After two weeks, the levels of the soil decreased to non-detect for PCE, TCE, cis 1,2-DCE and vinyl chloride. The groundwater sample levels went to 651 ppb for PCE, 662 ppb for TCE, 1,250 ppb for cis 1,2-DCE and 5.5 ppb for vinyl chloride. After four weeks of treatment, the levels of PCE, TCE, cis 1,2-DCE and vinyl chloride all went to non-detect in the groundwater sample.

EXOTECH, INC.
Chemical Oxidation and Environmental Remediation

Office: 770-564-1444/Fax: 770-923-1166

Based on the treatability testing, site information and our experience, it was decided to use an oxidant blend that consisted of a 28% solution of sodium persulfate by weight. In the field this would be equivalent to four bags of sodium persulfate per one hundred gallons of water. We would use chelated iron as the activator as it showed to be effective with the samples. Based on our observations during drilling and the well locations, it was further decided to inject 100 gallons of oxidant blend into each well. Parameters would be taken during the injections to make sure that this volume would give us the appropriate radius of influence we needed based on the well spacing.

Please contact us if you have questions or need further information. Thank you for the opportunity to serve your need on this project.

Sincerely,

Brett Ellington
Chemical Engineer

Georgia Department of Natural Resources
2 Martin Luther King Jr. Drive, S.E., East Tower, Atlanta, Georgia 30334
Noel Holcomb, Commissioner
Carol A. Couch, Director
Environmental Protection Division
(404) 656-4713

Reply To:
Regulatory Support Program
Suite 400
19 Martin Luther King Jr. Drive, S.W.
Atlanta, Georgia 30334
(404) 656-3214

January 23, 2009

Item IV Trust U/W John F. Rowan
Ms. Nan Kittrell, Representative
1270 Hestertown Road
Madison, GA 30650

RE: Underground Injection Control Permit #393 for Injection of Sodium Persulfate, Fashion Care/Executive Care Dry Cleaners Site located in Chamblee, Georgia (HSI #10786).

Dear Ms. Kittrell:

Enclosed is Underground Injection Control (UIC) Permit #393 for the Fashion Care/Executive Care Dry Cleaners site located in Chamblee, Georgia. This UIC permit allows Item IV Trust U/W John F. Rowan to utilize injection of sodium persulfate through twenty (20) injection wells to assist with the remediation of soil and ground water contaminated with chlorinated solvents at this site for up to five (5) years. The UIC permit states two (2) standard conditions and seven (7) additional conditions in the attachment.

If you have any questions about the permit, please contact Mr. Bijan Rahbar, UIC Coordinator, at (404) 656-3229.

Sincerely,

Carol A. Couch
Director

Enclosure

cc: UIC Permit #393 file
Leonard J. Diprima, Winter Environmental
Jason Metzger, EPD-HWMB

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

INJECTION WELL OPERATING PERMIT

PERMIT NUMBER: #393 **DATE ISSUED: January 23, 2009**

FACILITY DATA: **INJECTION WELL TYPE: CLASS V (type 5X26)**

FACILITY: Fashion Care/Executive Care
Dry Cleaners Site
2211 Savoy Road
Chamblee, Georgia
Dekalb County

OPERATOR: Item IV Trust U/W
John F. Rowan
Ms. Nan Kittrell, Representative
1270 Hestertown Road
Madison, GA 30650

LOCATION: Lat: 33° 55' 08.75"N
Long: 84° 17' 52.83"W

EPD-HSI #10786

In accordance with the provisions of the Georgia Rules for Underground Injection Control, Chapter 391-3-6-.13, as amended 2001, this permit is issued for the operation of the herein described injection system. This permit is effective immediately, unless appealed within thirty (30) days after its issuance and is conditioned upon the following:

1) The Permittee's continued compliance with the Georgia Rules for Underground Injection Control, Chapter 391-3-6-.13, the Georgia Rules for Water Quality Control (Revised) and the Georgia Rules for Safe Drinking Water (Revised); and

2) The Permittee's continued compliance with the Permittee's approved injection operation plan that is part of the approved Corrective Action Plan for this site, along with provisions of officially approved plan amendments, if any.

Additional conditions 1 through 7 are attached hereto.

This permit is issued in accordance with the application and supplemental information received on January 8, 2009. The injection operation plan was approved on January 23, 2009, and is based on the statements and supporting data entered herein or attached thereto, all of which are filed with the Environmental Protection Division of the Georgia Department of Natural Resources and hereby made a part of this permit.

This permit is subject to revocation for noncompliance with aforementioned conditions.
This permit expires on **January 23, 2014,** unless previously terminated.

Carol A. Couch, Director, Environmental Protection Division
Georgia Department of Natural Resources

INJECTION WELL OPERATING PERMIT
ADDITIONAL CONDITIONS

1. Permit Conditions.

   a. This permit is not transferable until any new operator shall agree in writing to all permit conditions. Any new operator also shall provide the Environmental Protection Division (Division) with appropriate documentation that they have adequate financial assurances to plug all existing Class V wells.

   b. If Item IV Trust U/W John F. Rowan (Operator) wishes to continue an activity regulated by this permit after the expiration of the permit, the Operator must apply for and obtain a new permit.

   c. The Operator shall report any instances of noncompliance with permit conditions to the Division in writing within five (5) working days of such noncompliance, and shall take all reasonable steps to minimize the impact on the environment resulting from noncompliance with this permit and the Georgia Rules for Underground Injection Control.

   d. The Operator shall notify the Division of any proposed changes to the performance of the sodium persulfate injection system in writing at least thirty (30) days prior to the change.

   e. All reports submitted to the Division shall be signed and stamped by a Georgia Registered Professional Engineer or Professional Geologist.

   f. All analyses shall be performed by a laboratory approved or accredited by EPD in accordance with the Georgia Rules for Commercial Laboratory Accreditation, Chapter 391-3-26.

2. System Parameters.

   a. This permit is issued to the Operator for the purpose of operating a sodium persulfate injection system at the above referenced site to aid in remediation of soil and ground water contaminated with chlorinated solvents.

   b. Number of Class V injection wells: twenty.

   c. Injected fluid: sodium persulfate.

   d. Maximum injection volume per well: 100 gallons of liquid/day (gpd)/well.
      Maximum total system injection volume: 2,000 gpd.

   e. Maximum daily average injection pressure (at well head): gravity.

Additional Conditions, UIC Permit #393, January 23, 2009, cont.

3. Monitoring and Reporting Requirements.

   a. The Operator shall report to the Underground Injection Control Program of the Division the number and exact location of all Class V injection wells it installs or plugs on a quarterly basis. The reports are to be submitted to the UIC Program in accordance with the reporting schedule stipulated by the Hazardous Waste Management Branch.

   b. The Operator shall submit to the Division for its approval, a detailed schematic diagram and location map on any Class V injection well that is different in construction from the specifications contained in the UIC permit application, no later than 45 days prior to installation of the injection well. The Operator cannot install such a well until it receives approval from the Division.

   c. The Operator shall submit to the UIC Program one (1) copy of any report regarding this site that the Operator is required to submit to the Hazardous Waste Management Branch.

   d. The Operator shall submit to the UIC Program an annual report that will contain the following information.

      1. Status of the injection system operation;

      2. Results of any ground-water sampling and analyses;

      3. Results of any soil sampling and analyses;

      4. An evaluation of the plume movement through the ground water, if any;

      5. Comparisons of analyses to determine any changes in pollutant concentrations.

   The annual reports will be provided to the UIC Program in accordance with the schedule stipulated by the Hazardous Waste Management Branch.

4. Emergency Situations.

   a. The Operator is to immediately notify the Division of any emergency situation that affects the injection system and describe the remedial activity that the Operator is utilizing to correct the situation.

   b. The Operator is to immediately notify the Division when the emergency situation ceases to exist.

5. The Operator shall grant the Division permission to enter the facility property to conduct inspections of the injection system.

Additional Conditions, UIC Permit #388, December 19, 2008, cont.

6. The Operator shall maintain a copy of this permit at the facility site.

7. The Operator shall, upon termination of the injection of the sodium persulfate through twenty Class V injection wells at this site, properly plug and abandon all Class V wells constructed on this site in accordance with EPD's *Manual for Groundwater Monitoring* (September 1991) and notify the division within thirty (30) days of such termination and abandonment.

APPENDIX G – CONTAMINANT TRANSPORT MODEL REPORT (REVISED)

Contaminant Transport Modeling Report

(Revision 1)

April 7, 2015

2055 Sugarloaf Circle, Suite 175
Duluth, GA 30097
888-239-6279

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

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1. INTRODUCTION

1.1 PROJECT BACKGROUND

This report details chemical fate and transport modeling for volatile organic compounds (VOCs) at the Fashion Care Voluntary Remediation Program (VRP) Site in Chamblee, Georgia. The Site area is depicted on Figure 1-1. This Site consists of an active dry cleaner and adjoining vacant space. Adjacent properties include a gas station/car wash, dental office, and various retail stores. All of these properties are located on the south side of I-285 and north of Nancy Creek and in total consist of approximately 12.3 acres of land. A dry-cleaning operation has been located at the Site since the buildings were constructed during the 1960's (Winter Environmental, 2010).The drycleaner location was the site of an historical release of tetrachloroethylene (PCE) that was subject to past corrective actions no longer on-going. Residual PCE and its daughter products are present in soil and groundwater and downgradient of the Site. The adjacent gas station was the site of a release of gasoline to the subsurface from underground storage tanks (UST) which comingled with the PCE plume at the Site (Winter Environmental, 2010).

Multiple phases of investigation by multiple contractors began with an investigation of Site soils in 2006. Additional investigation of Site soils occurred in 2007. A comprehensive investigation of Site soils, groundwater, and surface water began in 2008. Soil remediation efforts consisting of sodium persulfate injection in the presumed source area and sealing of potential pathways were conducted in 2009. Since that time, supplemental well installations, soil borings, and hydrogeological investigations have been conducted. This report summarizes pertinent information from the various investigations for the purposes of modeling fate and transport of Site-related constituents in groundwater and surface water.

1.2 REPORT ORGANIZATION

This report consists of a cursory review of project background data and site conceptual model in Section 2. Section 3 provides a discussion of the construction and benchmarking of the model used at the Site. Section 4 presents the results of the modeling. Section 5 provides a brief summary and recommendations for the Site based on the modeling efforts completed for the Site.

2. CONCEPTUAL SITE MODEL AND PROJECT DATA SUMMARY

This section discusses the conceptual site model (CSM) and project data used in the evaluation and fate and transport modeling of Site-related contaminants. The CSM is discussed in Section 2.1. Data used to support the modeling efforts is summarized in Section 2.2.

2.1 SITE CONCEPTUAL MODEL

The basic CSM for the Site is summarized in Figures 2-1a and 2-1b Figure 2-1a provides cross-section locations and the cross-sections are presented in Figure 2-1b. The residual Site-related VOCs in soil are depicted beneath the Fashion Care building and the paved area adjacent to the building. It has been conservatively assumed that this residual soil contamination is subjected to a limited amount (owing to the predominance of impervious surfaces in the area) of infiltration from the surface and from fluctuations in the water table that likely periodically wet portions of the soil column allowing dissolution to occur. This dissolves additional contaminants which then migrate within groundwater in the sandy silt and clayey silt perched atop the dry silt, ultimately discharging to Nancy Creek.

2.2 SITE DATA SUMMARY

The data used to construct and benchmark the fate and transport model for the Site comes from previous reports for the Site. The data pertinent to the modeling efforts for the Site are as follows:

- Hydrogeologic properties of the sandy silt/clayey silt;
- Overburden thickness above dense, dry silt;
- Groundwater levels across the Site,
- Nancy Creek surface water elevations and flow data (as available);
- The current distribution of VOCs in soil and groundwater across the Site.

Each of these data types and available information for the Site is summarized below.

2.2.1 Hydrogeologic Site Data

Surficial geology across the Site consists primarily of reddish-brown silt with varying minor amounts of sand and clay, overlying a grey to tan and grey silty sand to sandy silt with pebbles. This overlies a dense, dry silt of varying color present across the Site. The presence of the dense, dry silt across the Site was confirmed in November 2013 by advancing 10 borings (SB-37 through SB-46) across the Site to confirm the presence or absence of the dry silt, and utilizing existing borings that had been advanced deep enough to encounter the dry silt. Boring logs are provided in Appendix B.

The surficial saturated soil zone is divided into upper and lower water bearing zones, separated by the dense, dry silt indicated above. The thickness of the upper water bearing zone appears to be greater near Savoy Drive and thins as Nancy Creek is approached. This is based upon the evidence that the upper water bearing zone is thinner adjacent to Nancy Creek where saturated conditions are encountered in borings as shallow as 5 feet below grade and the dense dry silt is encountered at 8 to 16 feet below grade. The dry silt was encountered at deeper depths at the higher elevations around the Fashion Care building, at approximately 23 feet below ground surface (bgs). Toward Nancy Creek the dry silt was encountered at shallower depths ranging from 8 feet bgs (FMW-15) to 19 feet bgs (SB-46). The dry silt is very dense and in the majority of borings, drilling was terminated with DPT refusal due to the nature of the material. When slight pressure was applied to a core of the silt it crumbles into loose material, indicative of the

lack of moisture in the silt. To determine the general thickness of the layer to aid in planning the construction of a Type III monitoring well to be screened below the silt, one boring, SB-37, successfully penetrated the silt. The silt was found to be approximately 10 feet thick (23 feet bgs to 33 feet bgs) at that location. Based upon this data, the dense dry silt has been determined to act as a layer that retards the migration of groundwater from the upper water bearing zone to the lower water bearing zone in the Site area.

On April 22, 2014, an attempt was made to evaluate the lower water bearing zone below the dense, dry silt, and above the potential bedrock aquifer by installing a Type III double cased monitoring well (MW-18D) adjacent to FMW-5. This location was previously agreed to by EPD for installing a deep well to establish groundwater quality conditions beneath the dry silt. A pilot hole was first drilled to identify the top of and base of the dry silt to determine the placement of the outer casing for the deep monitoring well. As anticipated, the dense, dry silt was encountered at approximately 14 feet bgs, and water table aquifer conditions (upper water bearing zone) were encountered above the silt. However, bedrock was encountered immediately at the base of the dry silt at a depth of 33.5 feet bgs. A boring log is provided in Appendix B. As a result, the installation of the Type III well was aborted and EPD was notified of the conditions that were found. Based upon these findings, the following determinations were made:

- A Type III well could not be installed downgradient, and

- The water bearing zone present beneath the dry silt topographically upgradient near the Fashion Care building appears to pinch out moving toward Nancy Creek, with the dry silt resting upon bedrock.

It was also confirmed that the dry silt does not form the streambed of Nancy Creek adjacent to the Site. Based upon a stratigraphic assessment of the streambed, Nancy Creek in the area of the Site is still eroding through the silty sand/sandy silt overlying the dense dry silt. Woodard & Curran personnel completed hand auger explorations in Nancy Creek to investigate the creek bottom in the summer 2014. The objective of these explorations was to evaluate the potential for the creek to have eroded through the dry silt and expose bedrock in or immediately below the creek in the Site area. Locations were selected relative to the area where the groundwater plume enters the creek, and were the stream bottom was an erosional surface, not an area of sedimentation. This enabled accurate identification of the creek bed lithology. Two hand auger explorations were completed, CK-HA-1 and CK-HA-2. These locations are depicted in Figure 2-3. The CK-HA-1 location is in a bend of the creek adjacent to SB-41 and FMW-11. The CK-HA-2 location is located approximately 200 feet downstream of SB-43 and FMW-9. The hand augers penetrated to approximately 2.5 feet below the bed of the creek at which point the auger boring was terminated due to inability to further penetrate the creek bed. In both borings, grey, clayey silt was encountered. The grey clayey silt in CK-HA-1 was approximately 1.5 feet thick and was underlain by 0.5 feet of reddish-brown, poorly sorted, coarse sand and pebbles. In auger boring CK-HA-2, the grey, clayey silt, was encountered to a depth of 1.5 feet below the creek bottom at which point the boring was terminated. Based on comparison with the nearest soil borings, each boring terminated in the red to brown to grey silt located stratigraphically above the dense, dry silt which serves as the lower confining layer for the upper water bearing zone in which the contaminant plume migrates. Nancy Creek at the Site is located in the upper water bearing zone and has not eroded through the dense, dry silt, and does not intersect the bedrock. Appendix B provides the hand auger logs and correlation sections with adjacent borings. Photographs of the boring locations and lithology are also provided in Appendix B.

The groundwater gradients across the Site in the upper water bearing zone are based on water level monitoring completed during groundwater sampling mobilizations to the Site. Figure 2-2 provides a plot of groundwater potentiometric surface from the April 2014 monitoring round. The head during this sampling round varied across the Site between approximately 4 to 5 feet. The gradients appear to be steeper near the developed areas and flatten closer to Nancy Creek. The gradients vary between approximately 0.0056 ft/ft and 0.032 ft/ft based on elevations measured in April of 2014.

Hydrogeologic properties of interest for flow and transport modeling include hydraulic conductivity and effective porosity. The hydraulic conductivity values used in the modeling efforts for the Site were obtained from recently completed and previous slug testing performed on Site wells in the upper water bearing zone. Historic slug testing indicated that hydraulic conductivity at the Site ranges from approximately 10 to 27 ft/day. The more recent data indicated a range from 0.45 to 57 ft/day. The data from these slug tests are summarized in Table 2-1. Data and analyses are for slug tests completed in September of 2014 and are provided in Appendix A. Effective porosity for the Site is most likely dependent on the relative percentages of fines in the perched aquifer. There are no direct tests of effective porosity for the Site so an estimated effective porosity of 10% was assumed given the predominance of fines in the soil (Kresic, 1997).

The overburden thickness (upper water bearing zone) above dense, dry silt was mapped based on observations made in soil borings across the Site, and described above. The overburden thickness values assigned to each boring were then interpolated by kriging the values. The resulting thickness map is provided in Figure 2-3. The overburden thickness was subtracted from publicly available surface elevation data to obtain the bottom of the perched aquifer.

2.2.2 Surface Water Site Data and Recharge Estimates

Nancy Creek surface water elevations were taken from the data collected during Site groundwater monitoring. The differences between upstream station and downstream station elevations were used to model the surface water body and its relationship to the groundwater flow system. Surface water elevations, where available, are provided in Table 2-2 along with available groundwater elevations. The 7Q10 flow for the area where groundwater from the Site discharges to Nancy Creek has been calculated by the Georgia Environmental Protection Division (EPD) to be 3 cubic feet/second (CFS) (GAEPD, 2010).

Stream statistics from the United States Geological Survey (USGS) are available for Nancy Creek at Randall Mill Road (USGS Station ID 2336380) indicate a baseflow on the order of 10 to 18 CFS. The drainage basin size at the Randall Mill Road gauging station is approximately 34.8 square miles. This yields a general recharge range of between 2.6 to 4.1 inches/year. Another USGS station located closer to the site at Johnson Ferry Road (USGS Station ID 2336340) suggests a baseflow on the order of 3 to 6 CFS. Given the drainage basin size at this gauging station of approximately 17.8 square miles, the average recharge rate would be approximately 2.3 to 4.6 inches/year. Both ranges of numbers are in general agreement with each other despite the difference in drainage basin sizes and periods for gauging. Graphs showing the flows for these stations are provided in Appendix C.

2.2.3 Site VOC Concentrations

Site residual soil VOC concentrations used in the modeling efforts are based on soil data summarized in the report on soil remediation activities completed by Winter Environmental (May 2009). The average soil data was approximately 7.5 mg/kg over and area of approximately 2,100 square feet. The approximate depth to the water table in the source area is 7 feet. At an assumed soil density of 100 pounds per cubic foot, the approximate mass of PCE on soil in the source area is 5,020,860 milligrams or 5,020 grams.

The detection of VOCs in groundwater at the Site includes breakdown products of the degradation of PCE. These detected compounds include trichloroethylene (TCE), cis-1,2 dichlroethylene (cis-1,2 DCE), trans-1,2 dichlorethylene (trans-1,2 DCE), and vinyl chloride (VC). The presence of a gasoline station adjacent to the property and the associated hydrocarbons, benzene, toluene, ethylbenzene, and xylene (BTEX) indicates there is the potential for dechlorination of the PCE plume from comingling of this carbon rich source and may have set the stage for associated anaerobic conditions. The presence of higher quantities of DCE indicate that reductive dechlorination is likely occurring at the Site. The minimal detections of VC suggest that either the dechlorination stalls at the DCE stage or VC degradation occurs rapidly via another mechanism such as aerobic degradation. Other studies have indicated that VC can decay rapidly under aerobic conditions (Davis and Carpenter, 1990 and Singh et al., 2004).

Figure 2-4 depicts the total VOC plume in 2008 prior to remediation efforts. The plume extended from the source area near the Site building southward toward Nancy Creek. The plume bends to the west prior to reaching the creek. This bend is likely reflective of the plume encountering materials of greater transmissivity and the influence of the creek on groundwater flow patterns.

3. FLOW AND TRANSPORT MODELING

This section discusses the modeling of the soil to groundwater and groundwater flow and transport of Site related VOCs. Section 3.1 briefly describes the simplified modeling of the transfer of soil contamination to the groundwater flow system. Section 3.2 discusses the model selection, construction, and benchmarking of the groundwater flow model.

3.1 SOIL TO GROUNDWATER MODEL

For the purposes of modeling the transfer of contaminant mass to the groundwater system, a simple soil flushing calculation was used. Using the contaminant mass of 5,020,860 milligrams or 5,020 grams as estimated in Section 2.2, and an estimated infiltration rate of 1 inch/year applied over the approximate area of soil impact; the estimated time to reduce the contaminant levels to non-detect values is approximately seven years. The amount of soil contamination released to groundwater was then estimated for each year and used in step-wise fashion as the initial inputs to the contaminant transport model discussed in Section 3.2. Calculations regarding this estimation are provided in Appendix D. Adjustments were made during calibration to match observed conditions at downgradient wells.

3.2 GROUNDWATER FLOW AND TRANSPORT MODEL

The groundwater modeling of flow and contaminant transport for the Site is discussed in the following sections. Section 3.2.1 discusses the model code selection. Section 3.2.2 discusses the groundwater flow model construction, parameter selection, and benchmarking to Site observations. Section 3.2.3 discusses the contaminant transport model, parameter selection, and benchmarking to Site observations.

3.2.1 Computer Code Selection

The computer code used to simulate the flow of groundwater at the Site was MODFLOW 2000 (Harbaugh et al, 2000). MODFLOW is an industry standard code for modeling three dimensional groundwater flow and has various packages or modules to handle different aspects of groundwater flow. The computer code used to simulate contaminant transport was MT3DMS (Zheng and Wang, 1999). MT3DMS is a industry standard code for simulating transport of contaminants in three dimensions and uses the outputs from MODFLOW to calculate simulated transport in groundwater. Both codes were implemented using the commercially available Groundwater Vistas graphical user interface (GUI).

3.2.2 Groundwater Flow Model Construction

The construction of the groundwater flow model was based on available Site data for perched aquifer geometry, boundary conditions, and site specific parameters. The model grid and boundary conditions are indicated on Figure 3-1. The model grid was based on a nominal grid spacing of 20 feet by 20 feet. The grid was refined around the source area to a spacing of 10 feet by 10 feet. The boundary conditions used in the model included no-flow and river boundaries. The no-flow boundaries were assigned based on interpretation of presumed groundwater divides, based on surface topography or where the upper unit was assumed to be unsaturated at the higher elevations in the model space. Nancy Creek was simulated as a river boundary with elevation values assigned based on surface topography and measured differences in elevations at various Site surface water stations.

Aquifer geometry was assigned based on the depth to the top of the dry silt as discussed in Section 2. The upper limit of the aquifer surface was assumed to be the surface elevation. The bottom of the aquifer was computed by subtracting the overburden thickness from the surface elevation for the entire model space.

Hydraulic conductivity was varied based on Site values discussed in Section 2.2. Based on benchmarking to Site water levels, two conductivity values were used. A hydraulic conductivity of 0.8 feet/day was used for the majority of the model space and reflects a predominance of silt in much of the model area. A transition value of 6.3 feet/day was assigned to reflect sandier silt present between the sand observed in some Site wells/borings and the finer-grained silt. A higher conductivity value of 25 feet/day was assigned to an area near Nancy Creek. This was completed to better match the wider spacing of groundwater contours adjacent to the creek. The lower gradient in this area is indicative of more transmissive soils likely associated with the alluvium along the creek. The hand-augers completed in the creek suggest that the creek is eroding into the underlying silt. The higher conductivity materials adjacent to the creek may represent an area of past channel alluvium deposited in an area previously occupied by the creek. The distribution of conductivity values are presented in Figure 3-2. It is important to note that the hydraulic conductivity field provided in Figure 3-2 represents the final distributions of hydraulic conductivity after adjustments were made during calibration to achieve the best fit to site water level data. The adjustments made during calibration also provided the best match to plume extents. Plume modeling is discussed further in Section 3.2.4.

Recharge was assigned based on surface conditions in the area of the Site. Generally, paved areas were conservatively assigned a recharge rate of approximately 1 in/yr or less. Open spaces were set at approximately 4 in/year. Areas with depressions such as ditches and swales along the highways were assigned recharge rates of approximately 7 in/yr. These numbers reflect final adjustments to achieve calibration.

3.2.3 Flow Model Calibration

The groundwater flow model was calibrated to the average of groundwater elevations for the period of record collected at each well. These data were adjusted from the arbitrary Site datum to a representative elevation similar and consistent with the publicly available land surface elevation. This datum adjustment was made by computing the elevation difference between each average groundwater value from the surface water elevation at the surface water station SW-1 on March 19, 2010 (the most complete round of monitoring data for the Site), and then adding that difference to the elevation of SW-1 based on the digital elevation model (DEM). Table 2-1 provided the data for the average groundwater conditions and the adjustment to a site datum consistent with the DEM for the Site area.

Overall, the shape of the contours and the change in head across the Site in the model appears to mimic the observed change in heads and contour shapes. The groundwater model appears to be relatively well benchmarked against Site conditions. The change in modeled head across the Site is approximately 5 feet which agrees with Site observations and gradients similar for both the modeled and observed flow fields. Figure 3-3 depicts the benchmarked flow field. Figure 3-4 provides a graphic depicting modeled heads versus observed heads. The modeled graph depicts a line representing where data would fall if there were perfect agreement between modeled and observed heads. There is generally a good correlation between modeled and observed heads as indicated by the lack of scatter about the line. Table 3-1 provides the modeled versus observed heads as well as calibration statistics. The calibration statistics further indicate a good match in the modeled head data.

3.2.4 Contaminant Transport Modeling

Contaminant transport modeling was conducted in three distinct steps. The first step was to model distribution of total dissolved VOCs in the groundwater. The second step was to model the anticipated maximum concentration of PCE in the future, as this compound is the most prevalent compound at the Site with the lowest In-Stream Water Quality Standard (ISWQS). The third step was to evaluate the likely relative concentrations of the daughter products of PCE decay at the Site at the time of the maximum future PCE concentration and then compare these concentrations to the appropriate environmental standards.

For bench-marking simulations, the model assumes that source became active in the subsurface approximately 5 years after the Site began operation in 1968. The starting time for the simulation is therefore 1973. The source was

assumed constant until late 2008/early 2009 when the source remedy using sodium persulfate and chelated iron was implemented, and other sources of impacts were removed (PCE dry cleaner machine, lint sump cleaned and sealed). The flushing of Site soils as discussed in Section 3.1 was then used as the basis for adjusting source concentrations over time. Forward looking prediction of daughter products is discussed in Section 4.3.

3.2.4.1 Total VOC Plume Modeling

The total VOC plume modeling was conducted to evaluate the following:

1.) The expected maximum extent of the total plume in the aquifer ,

2.) The relevant environmental criteria against which to evaluate modeled future concentrations (i.e. surface water protection, drinking water, etc.);

3.) The adequacy of the existing monitoring network to effectively monitor anticipated changes, if any, in the plume distribution, and

4.) The potential for additional receptors to be impacted by the plume in the future.

The main parameters for varying in the contaminant transport model are the source distribution and concentration and the dispersivity values. The initial source area for the total VOC portion of the model was assigned based on observations of data. Source concentrations were varied between 5 mg/l and 86 mg/l in the area beneath the southern corner of the dry cleaning building. The overall initial average concentration in the source area was close to the 75 mg/L value for the area discussed in Sections 2.2.3 and 3.1. The source concentration was varied from these initial values in a stepwise fashion over 7 years until reaching an assumed, irreducible minimum of 1 mg/l in year seven. A graph depicting the final applied source concentrations versus the soil flushing estimated values is provided in Figure 3-5. .

Dispersivity values were initially assigned a value of 10 feet for longitudinal dispersivity, 1 foot for transverse dispersivity, and 0.01 feet for vertical dispersivity. During benchmarking, the values for dispersivity were adjusted to 30 feet, 2.5 feet, and 0.3 feet respectively for longitudinal, transverse, and vertical dispersivities.

In order to develop a model that yielded modeled data consistent with Site monitoring results, plume retardation was incorporated into the transport simulation. Retardation in the MT3D model is accomplished by incorporating soil adsorption. Adsorption is based on three parameters: K_{oc}, f_{oc}, and soil bulk density. The product of K_{oc} and f_{oc} is the transport parameter K_d or adsorption constant. Since there is not a specific K_{oc} value for total VOCs and the site specific f_{oc} may vary over a large range, the value for K_d was adjusted during calibration to achieve a suitable match to observed Site chemical data.

3.2.4.2 PCE Plume Modeling

The PCE plume was developed using the same basic dispersivity as was used in the total VOC transport model. The source terms were adjusted to reflect the portion of the total VOCs that are attributed to PCE in Site groundwater. The resulting source term for PCE was adjusted to have decay proportional to that used in the total VOC plume model.

The chemical specific adsorption on soils for PCE is based on values for K_{oc}, f_{oc}, and bulk density. The K_{oc} of 94.94 L/kg for PCE was obtained from Regional Screening Level (RSL) Chemical-specific Parameters Support Table, May 2014. The initial f_{oc} value for the Site soils was estimated at 0.002 mg/kg per guidance provided by the Georgia EPD. The value for f_{oc} was varied during the modeling in order to achieve a good fit to the available Site chemical data time series. The final calibrated foc value from the modeling was 0.00092 mg/kg.

3.2.4.3 Daughter Product Benchmarking and Prediction Modeling

The Site monitoring data include detectable concentrations of the breakdown of PCE into its various daughter products as discussed in Section 2.2.3. An initial BIOCHLOR22 model was completed to evaluate transport parameters for use in forward prediction. In order to understand the maximum expected concentration of each of the daughter products at the time of maximum PCE concentration, a second simulation using BIOCHLOR22 was performed. Chemical transport parameters were initially set at those used in the PCE modeling and adjusted during the benchmarking process discussed in Section 3.2.5.3. The discussion of forward prediction of daughter products in provided in Section 4.3.

3.2.5Contaminant Transport Model Benchmarking

Each stage of the contaminant transport modeling process underwent individual benchmarking to Site data. The discussion of the benchmarking for each step is provided in the sections below.

3.2.5.1 Total VOC Plume Benchmarking

The plume was generally well benchmarked against field measured values for VOCs in both the extent and shape of the plume. Figure 3-6 depicts the benchmarked plume distribution versus observed plume concentrations. As depicted, there is generally a good match with regard to plume shape and concentrations. The benchmarking of plume migration timing was accomplished by extracting modeled contaminant concentrations versus time, plotting them, and comparing them to actual values. Figure 3-7 a, b, and c depict the modeled concentration time-series data for wells FMW-4, FMW-6 and FMW-9.

3.2.5.2 PCE Plume Benchmarking

The plume was generally well benchmarked against field measured values for PCE in both the extent and shape of the plume. Figure 3-8 depicts the benchmarked plume distribution versus observed plume concentrations. As depicted, there is generally a good match with regard to plume shape and concentrations. The benchmarking of plume migration timing was accomplished by extracting modeled contaminant concentrations versus time, plotting them, and comparing them to actual values. Figure 3-9 a, b, and c depict the modeled concentration time-series data for wells FMW-4, FMW-6 and FMW-9. While some values are under-predicted, in general the order of magnitude of predictions is correct, as are the trends in concentrations relative to the well location within the plume.

3.2.5.3 Daughter Product Model Benchmarking

The first step in this process was to benchmark the simulation against Site VOC data. Initial transport parameters were set to match those of the three dimensional model simulation for PCE transport. Model parameters were then modified to achieve a match for each of the daughter products. The BIOCHLOR22 model is a two-dimensional spreadsheet based model and provides outputs depicting modeled versus actual concentrations for each of the daughter products in the decay chain. The calibrated parameters used in the BIOCHLOR simulation to achieve these matches are provided in Table 3-3. Some parameters are slightly different from the parameters used in the MT3D model. This is related to the ability of the MT3D to allow for heterogeneity in parameters that is not allowed in the BIOCHLOR model.

As an example, the hydraulic conductivity used in the BIOCHLOR model is a weighted average (based on flow path length through different materials) of the hydraulic conductivities used in the MT3D model. Essentially the flow path at the core of the plume travels approximately 190 feet in material of 25 feet/day conductivity and 87 feet in material with a conductivity of 6.3 feet/day. The weighted average yields approximately 19.13 feet/day or 0.0068 cm/sec.

Similarly, the dispersivity values were adjusted based on flow path lengths through differing materials to arrive at the value of 22 feet for dispersivity in the BIOCHLOR model.

Additionally, the BIOCHLOR model does not have the flexibility to allow for a time variant source component representative of source reduction measures as were performed at the site in the 2008 to 2009 timeframe. The source component therefore is different from that used in MT3D where the step-wise PCE source was used. In order to accommodate the BIOCHLOR model usage, a higher initial concentration of PCE was used and no source removal was accounted for as was done in the MT3D model where a time variant source concentration is allowed. Source dimensions were set at 15 feet of thickness and 25 feet of width. This is approximately equivalent to the cross-sectional area of the source used in the MT3D model. The source data were adjusted to match field observations. Initial source concentrations were set at close to the solubility limit for PCE as this was assumed at near solubility when first released to the subsurface. Since wells were not present on the site at that time (assumed to be 1973 as directed by EPD), the data were subsequently adjusted via trial and error. Other constituents (TCE, DCE, VC) were also arrived at by adjusting values until matching concentrations were achieved at the nearest source area well (FMW-4) and reasonable matches to wells further downgradient (FMW-6 and FMW-9) were achieved.

The parameters for the decay of the PCE to each of its daughter products generally conform to ranges presented in the BIOCHLOR modeling guidance document that accompanies the software. The one general exception to this is that the VC decay rate needed to be well above this range in order to match the observations at the Site. Sensitivity analyses around the VC decay rate are discussed further in the mixing zone calculations in Section 4.3. As demonstrated in Figure 3-10, the modeled values for PCE, TCE, DCE, and VC match the field data relatively well as indicated by the points in each graph lying reasonably close to the prediction line for the 41 years of the simulation from 1973 through 2014 when the benchmarking data were collected. The points on the graph represent FMW-4 (closest to y-axis), FMW-6 (intermediate distance), and FMW-9 (farthest from y-axis). BIOCHLOR screen captures for the benchmarking portion of the modeling are included in Appendix F. The forward-looking projections of PCE and its daughter products are discussed in Section 4.3.

4. PLUME SIMULATIONS AND SURFACE WATER MIXING CALCULATION

The benchmarked groundwater model was used to complete various simulations to evaluate plume stability and predicted future extents. Two types of simulations were performed, a steady-state simulation assuming soil remains an ongoing source at current concentrations and transient simulations assuming that soils flush in a stepwise fashion as discussed in Section 3.1.

4.1 TOTAL VOC PLUME DISTRIBUTION

The simulation of total VOC concentrations was run forward in time to evaluate the existing groundwater monitoring network distribution and the potential for influencing additional receptors. The projected maximum extent of the plume is depicted in Figure 4-1. This figure indicates that the existing monitoring network is adequate for plume monitoring as it would allow delineation and monitoring of the plume over time.

4.2 PCE PLUME DISTRIBUTION AND MAXIMUM STREAM VALUES

The maximum extent of the PCE plume is slightly less than that of the total VOC plume depicted in Figure 4-1. In order to understand the potential time-frame and concentration of the maximum discharge concentration of PCE into Nancy Creek, monitoring nodes were placed in the modeled creek at areas where the core of the modeled plume discharges to the creek. The modeled points are depicted on Figure 4-2 that depicts the maximum projected extents of the core of the plume in Nancy Creek. The modeled time-frame for the maximum extents is indicated on the graphic as potentially occurring at approximately 41 years from 2014. Additional graphics depicting plume development over time are provided in Appendix E and include predictions of plume extent in 2024, 2034, and 2044. These additional figures show the slow development of the plume in the interim time-period from 2014 to the maximum concentrations reaching the stream predicted to occur in 2052. These snapshots show that the plume does not expand substantially beyond the existing monitoring network. These figures further demonstrate that core of the plume degrades and slowly migrates toward Nancy Creek as it degrades.

Figure 4-3 depicts the maximum expected groundwater discharge concentration at two locations in the creek. The maximum predicted concentration of PCE entering Nancy Creek is approximately 2.42 mg/L. Smaller versions of these figures have also been placed on Figure 4-2 for reference. This predicted maximum concentration for PCE is used in later sections to evaluate the potential for exceedance of ISWQS.

4.3 PLUME DAUGHTER PRODUCT PREDICTION AT NANCY CREEK

The calibrated BIOCHLOR22 model was used to predict concentrations of daughter products at the maximum PCE concentration of approximately 2.42 ug/L at the stream. Since BIOCHLOR22 is a simple two-dimensional model assuming a uniform flow field, the maximum concentration at a given distance at given time is located along the centerline of a symmetrical plume. Since the plume at the Site is not a simple symmetrical plume in a uniform flow-field, the distance used for prediction of daughter products based on the time projection was the distance from the source area to Nancy Creak. To predict the concentrations of the daughter products at the maximum plume intersection with Nancy Creek a second BIOCHLOR22 model run was set up. The parameters for forward simulation were the calibrated values from the benchmarking BIOCHLOR22 runs discussed in Section 3.2.5.3. The only difference in the run was the initial concentration that was adjusted to be representative of the core of the plume after the remediation efforts that took place in 2008-2009. This is based on the assumption that the core of the plume is likely closer to Nancy Creek subsequent to the remediation efforts. The values for the initial concentration are indicated in Table 4-1 and represent the maximum detections in FMW-4 which were assumed to be representative of the core of the plume subsequent to source remediation activities. Appendix F also contains model setup and outputs from the BIOCHLOR22 forward-prediction model runs for reference. The projection was run 40 years into the future from 2012 which in turn corresponds to the expected year 2052 maximum for PCE from the MT3D model. Table 4-1

provides the predicted maximum concentrations of PCE and the concentrations of the following degradation daughter products: TCE, DCE, and VC.

4.4 SURFACE WATER MIXING CALCULATION

In order to evaluate the potential for PCE and its degradation products to be present in the stream above ISWQS, a groundwater to surface water mixing calculation was performed. The concentrations for PCE, TCE, DCE and VC in groundwater predicted in the previous sections were then blended based on modeled groundwater discharge and the volume of flow in Nancy Creek at the Site at 7Q10 conditions. Per correspondence from Georgia EPD dated December 2, 2010, the 7Q10 flow at the area of groundwater discharge is 3 cubic feet/second. The zone of mixing was calculated for the core of the plume and the maximum concentration was assumed as prevailing at each point in that area. This is a conservative assumption in that the concentration in the core of the plume where it intersects the stream would vary between 1 and a maximum of 2.42 mg/l according to the modeling. Therefore, the calculated amounts in the mixing zone represent the maximum value the concentration could be, but it is likely to be lower given the conservative assumption previously discussed.

The mixing zone calculation is as follows:

$$C_{SWVOC} = \frac{V_{gw}}{V_{gw} + V_{sw}} * C_{GWVOC}$$

where:

C_{SWVOC} = concentration of a particular VOC in surface water after mixing with groundwater containing that VOC discharges to the stream

V_{gw} = groundwater discharge volume (modeled value is 0.0019 cfs)

V_{sw} = surface water flow at 7Q10 (3 cfs for the Site)

C_{GWVOC} is the concentration in groundwater of the particular VOC being modeled

Table 4-1 provides the calculation of the concentration each VOC in surface water for the single point in the stream with the maximum predicted concentrations in groundwater and compares them to the Georgia EPD compound specific ISWQS.

As discussed in Section 3.2.5.3, VC decay rate needed to be set outside the general range of values for this parameter presented in the BIOCHLOR guidance manual. In order to understand the potential implications of this high rate of VC decay, a sensitivity analysis was conducted to see what the predicted VC values would be if the decay rate was set to zero. The resulting concentration for VC with VC decay rate of zero and the resulting mixing calculation is provided in Table 4-1. These results indicate that even if the VC decay were zero, the concentration of VC resulting from the mixing of plume water with surface water is still below the compound specific ISWQS for VC.

5. SUMMARY AND CONCLUSIONS

Based on the modeling exercises completed to date, the plume will likely remain stable or decrease over the next 60 years. The plume generally appears to migrate down the axis of the Nancy Creek Valley on the northern side of the creek. The overall plume distribution appears to be monitored adequately by the existing well network. Given these observations, the following conclusions/recommendations are made:

- The predicted plume footprint does not expand substantially beyond the existing monitoring well network as discussed in Section 4;
- As the source area is depleted, the center of maximum plume concentration will slowly migrate and continue to degrade as it migrates toward Nancy Creek;
- The maximum modeled concentration of PCE is predicted to discharge to Nancy Creek approximately 41 years after the source remediation effort conducted in 2008;
- Based on modeling, plume characteristics can be adequately monitored through annual or semi-annual sampling of FMW-6, FMW-9, and FMW-16;
- Mixing calculations for the predicted maximum concentrations of PCE and daughter products in Nancy Creek indicate that ISWQS will not be exceeded; and
- No other receptors for the groundwater plume are present within the existing or predicted footprint of the plume at the Site.

6. REFERENCES

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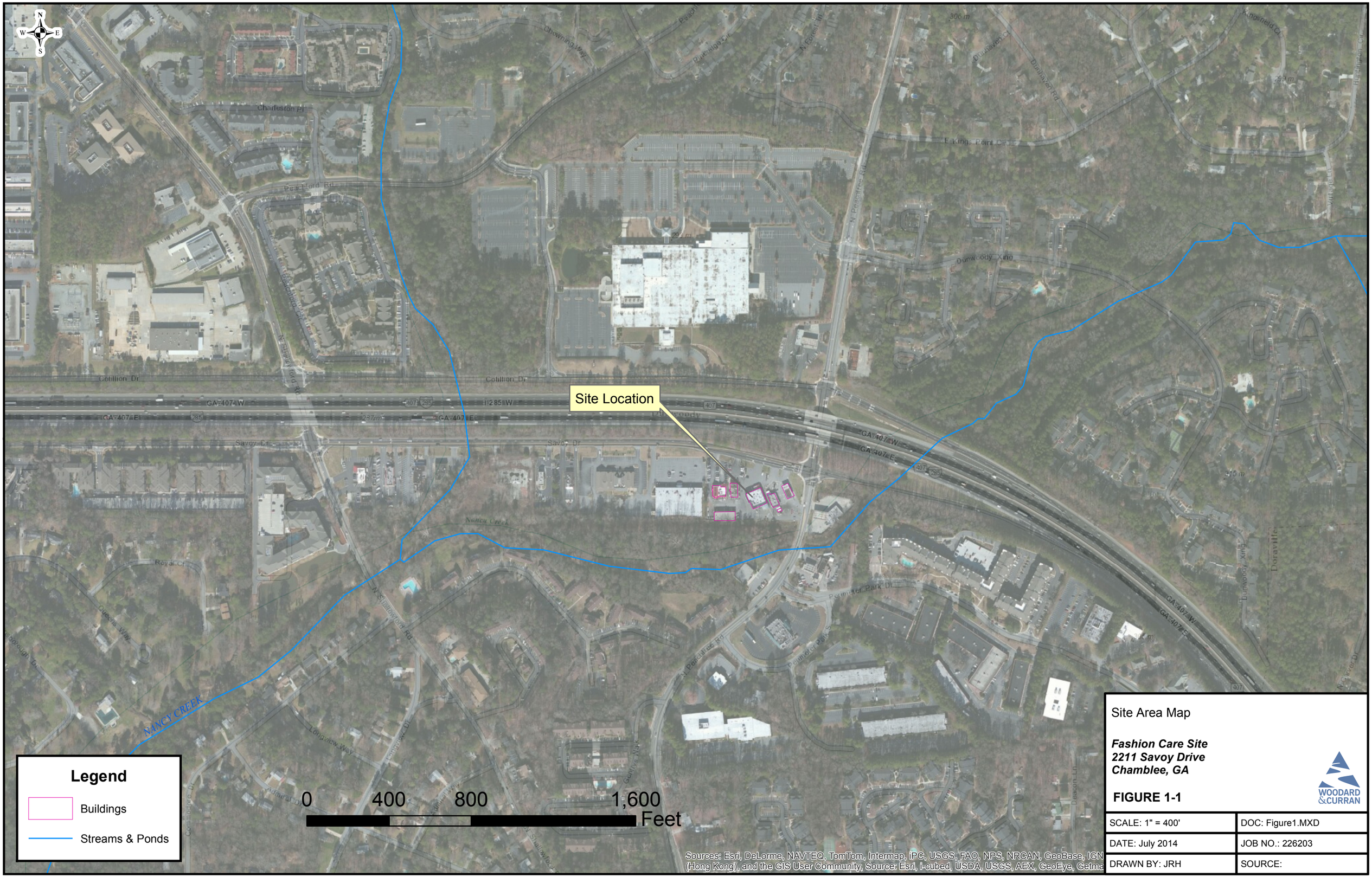
Zheng, Chunmiao, and P. Patrick Wang, 1999, *MT3DMS, A modular three-dimensional multi-species transport model for simulation of advection, dispersion and chemical reactions of contaminants in groundwater systems; documentation and user¡¯s guide,* U.S. Army Engineer Research and Development Center Contract Report SERDP-99-1, Vicksburg, MS, 202 p.

FIGURES



Site Area Map

Fashion Care Site
2211 Savoy Drive
Chamblee, GA

FIGURE 1-1

WOODARD &CURRAN

SCALE: 1" = 400'	DOC: Figure1.MXD
DATE: July 2014	JOB NO.: 226203
DRAWN BY: JRH	SOURCE:

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REV	DESCRIPTION	DATE

DESIGNED BY:
DRAWN BY:
CHECKED BY:
CROSS-SEC LOCATIONS-RETURNING

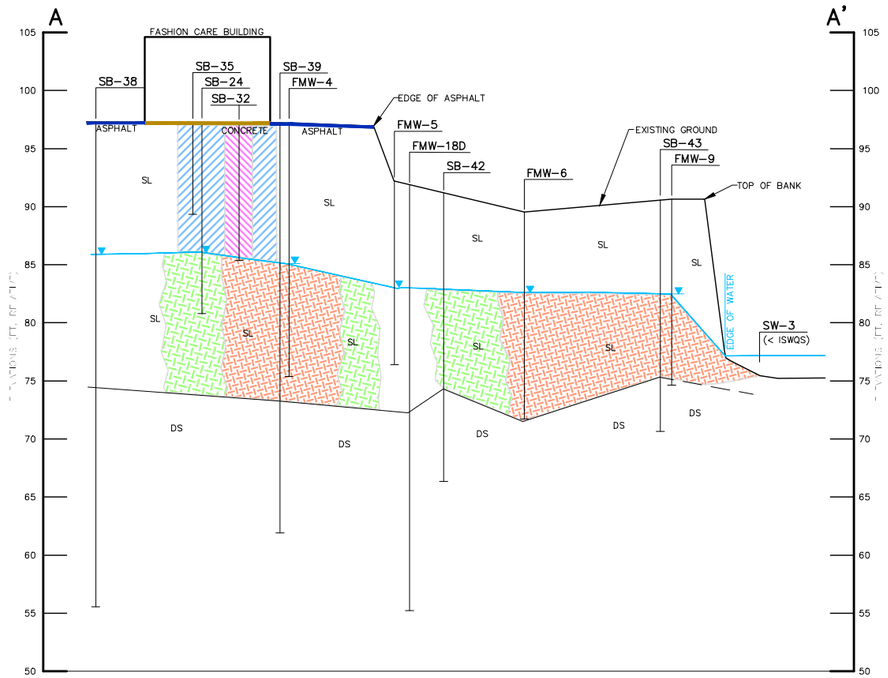
FIGURE 2-1a
CONCEPTUAL SITE MODEL
CROSS-SECTION LOCATIONS

FASHION CARE
EXECUTIVE CARE SITE

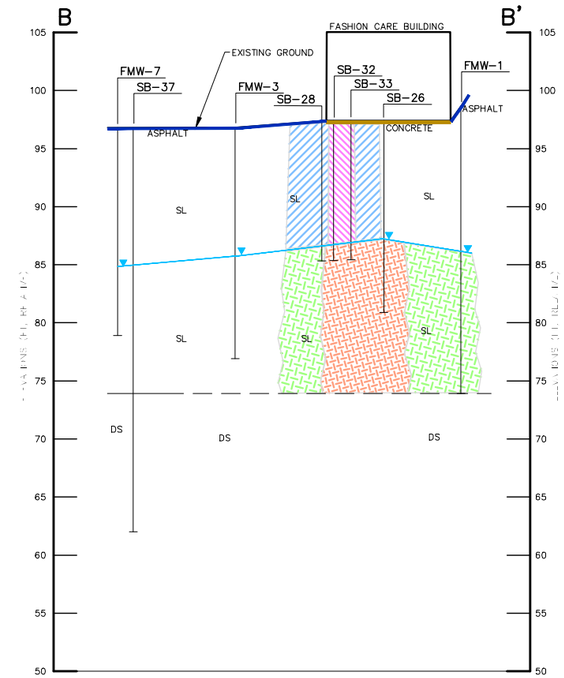
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

JOB NO.:
DATE:
SCALE:
SHEET: OF

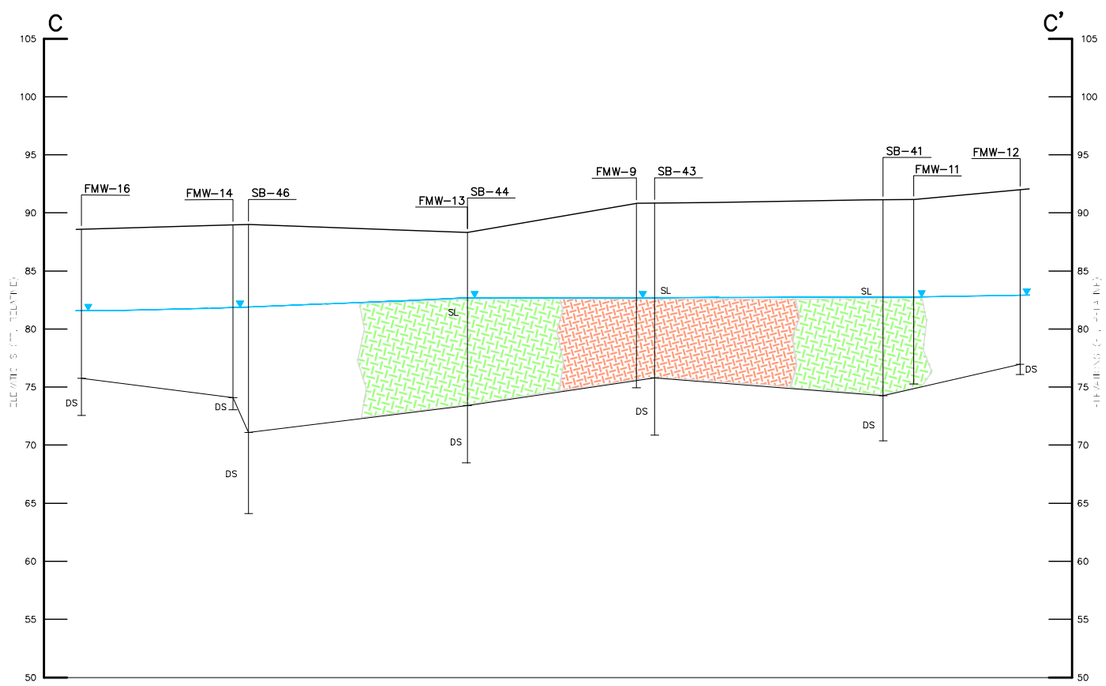
1



CROSS SECTION A–A'
(LOOKING EAST)



CROSS SECTION B–B'
(LOOKING NORTH)



CROSS SECTION C–C'
(LOOKING NORTH)

NOTES

1. EXTENT OF SOIL IMPACTS BASED ON FIGURE 1 OF THE FINAL RCRA FOR PARCEL 16-043-2(2) PREPARED IN JUNE 2014.
2. EXTENT OF GROUNDWATER IMPACTS BASED ON FIGURE 4 IN THE JULY 2014 ANNUAL STATUS REPORT SAMPLES COLLECTED IN APRIL 2014.
3. CROSS-SECTION LOCATIONS ARE DEPICTED ON FIGURE 1.
4. STRATIGRAPHIC DATA/INFORMATION INTERPRETED FROM SOIL BORING LOGS, THE BORING LOGS AND RELATED INFORMATION PRESENTS SPECIFIC CONDITIONS ONLY AT SPECIFIC LOCATIONS. SOIL CONDITIONS AT OTHER LOCATIONS MAY DIFFER FROM CONDITIONS OCCURRING AT THESE BORING LOCATIONS, AS WELL AS PASSAGE OF TIME MAY RESULT IN A CHANGE IN THE CONDITIONS AT THESE BORING LOCATIONS.

LEGEND

- SL — SILTY-SANDY SILT OR CLAYEY SILT
- DS — DENSE SOIL
- GROUNDWATER LEVEL (7/28/14)
- SOIL CONCENTRATIONS > TYPE 3/4 RRS
- SOIL CONCENTRATIONS > TYPE 5 STANDARD
- GROUNDWATER CONCENTRATIONS > TYPE 1/2 RRS
- GROUNDWATER CONCENTRATIONS > TYPE 5 STANDARD

HORIZONTAL SCALE
50 0 50 100

VERTICAL SCALE
5 0 5 10 FEET

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REV	DESCRIPTION	DATE

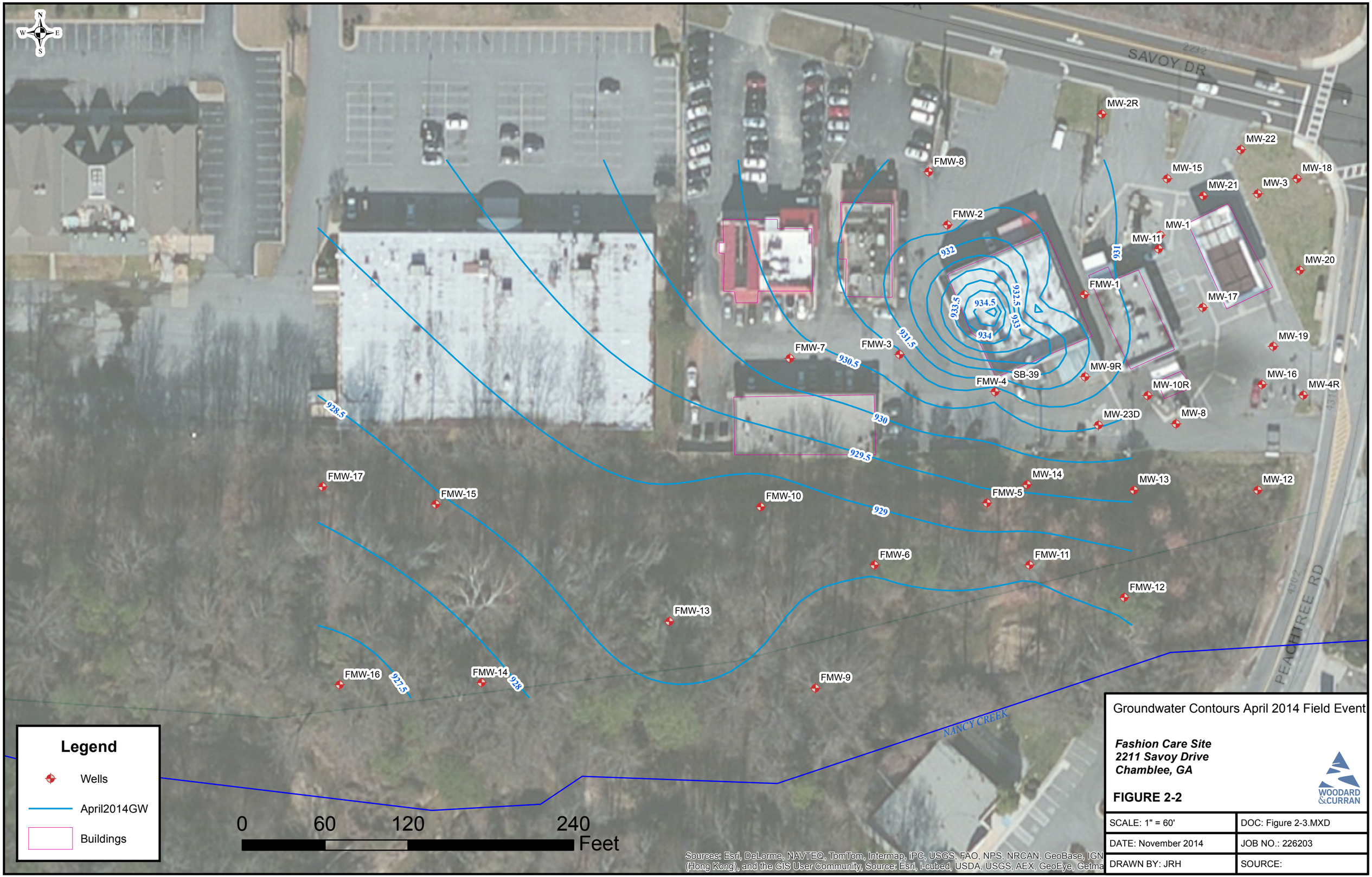
DESIGNED BY: LJD
DRAWN BY: DJM
CHECKED BY: BRM
CROSS-SECTIONS

FIGURE 2–1b
CONCEPTUAL SITE MODEL

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GEORGIA

VRP STATUS REPORT

JOB NO.: 226203
DATE: DECEMBER 2014
SCALE:
SHEET: OF



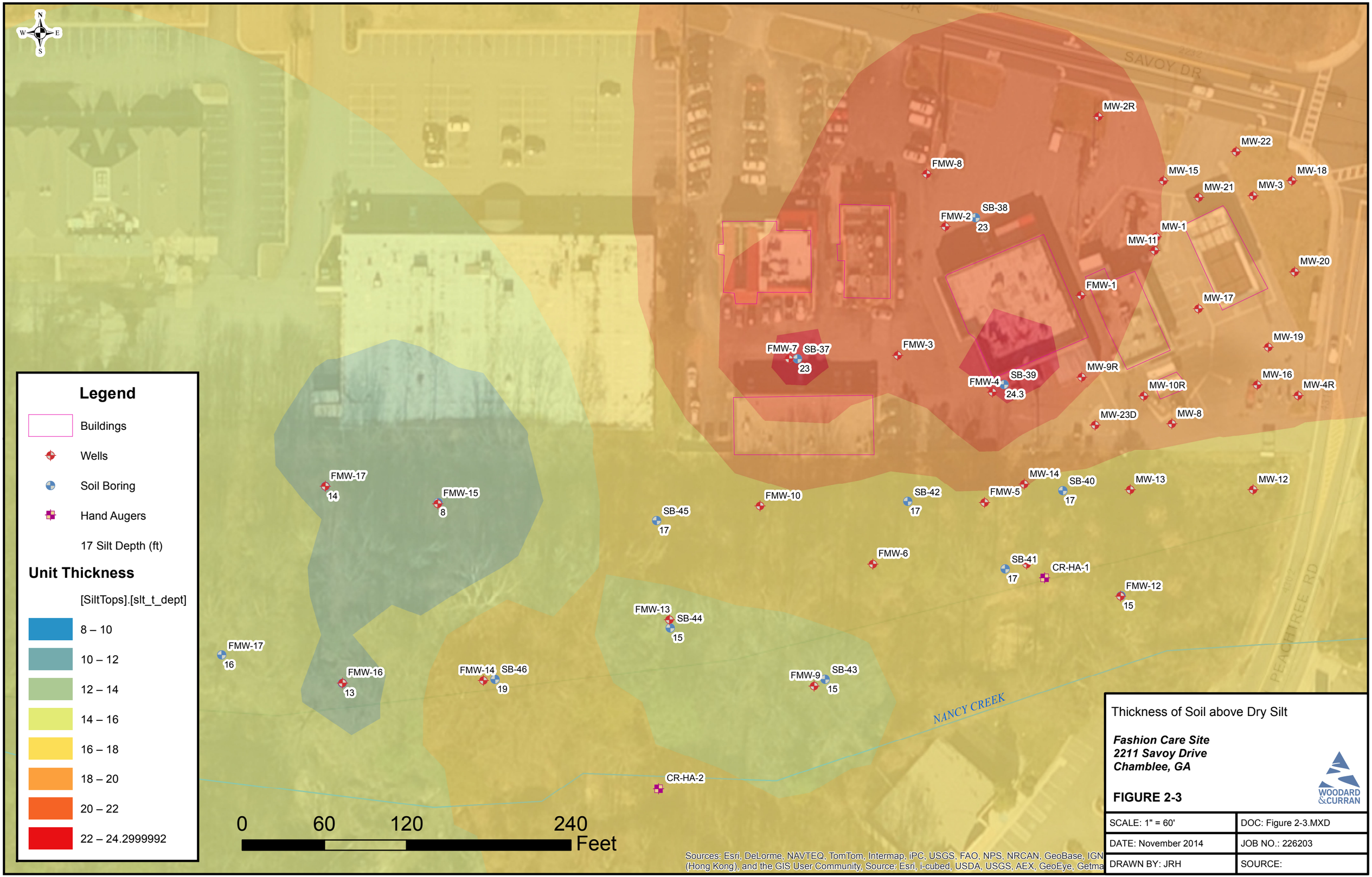
Groundwater Contours April 2014 Field Event

Fashion Care Site
2211 Savoy Drive
Chamblee, GA

FIGURE 2-2

WOODARD &CURRAN

SCALE: 1" = 60'	DOC: Figure 2-3.MXD
DATE: November 2014	JOB NO.: 226203
DRAWN BY: JRH	SOURCE:



Thickness of Soil above Dry Silt

Fashion Care Site
2211 Savoy Drive
Chamblee, GA

FIGURE 2-3

WOODARD &CURRAN

SCALE: 1" = 60'	DOC: Figure 2-3.MXD
DATE: November 2014	JOB NO.: 226203
DRAWN BY: JRH	SOURCE:

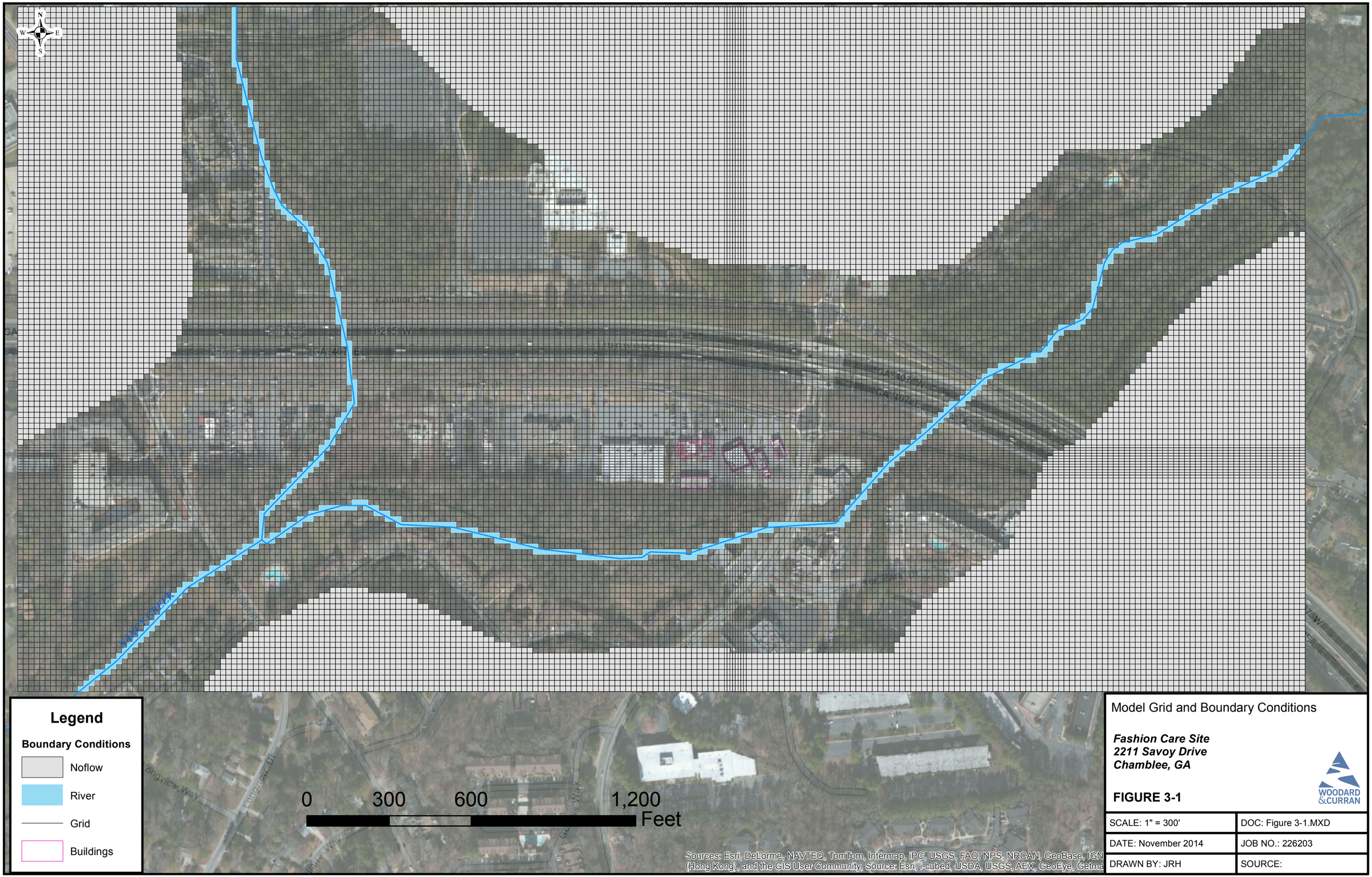
Total VOC Plume Configuration
in 2008 Prior to Remediation

Fashion Care Site
2211 Savoy Drive
Chamblee, GA

FIGURE 2-4

WOODARD &CURRAN

SCALE: 1" = 60'	DOC: Figure 2-3.MXD
DATE: November 2014	JOB NO.: 226203
DRAWN BY: JRH	SOURCE:



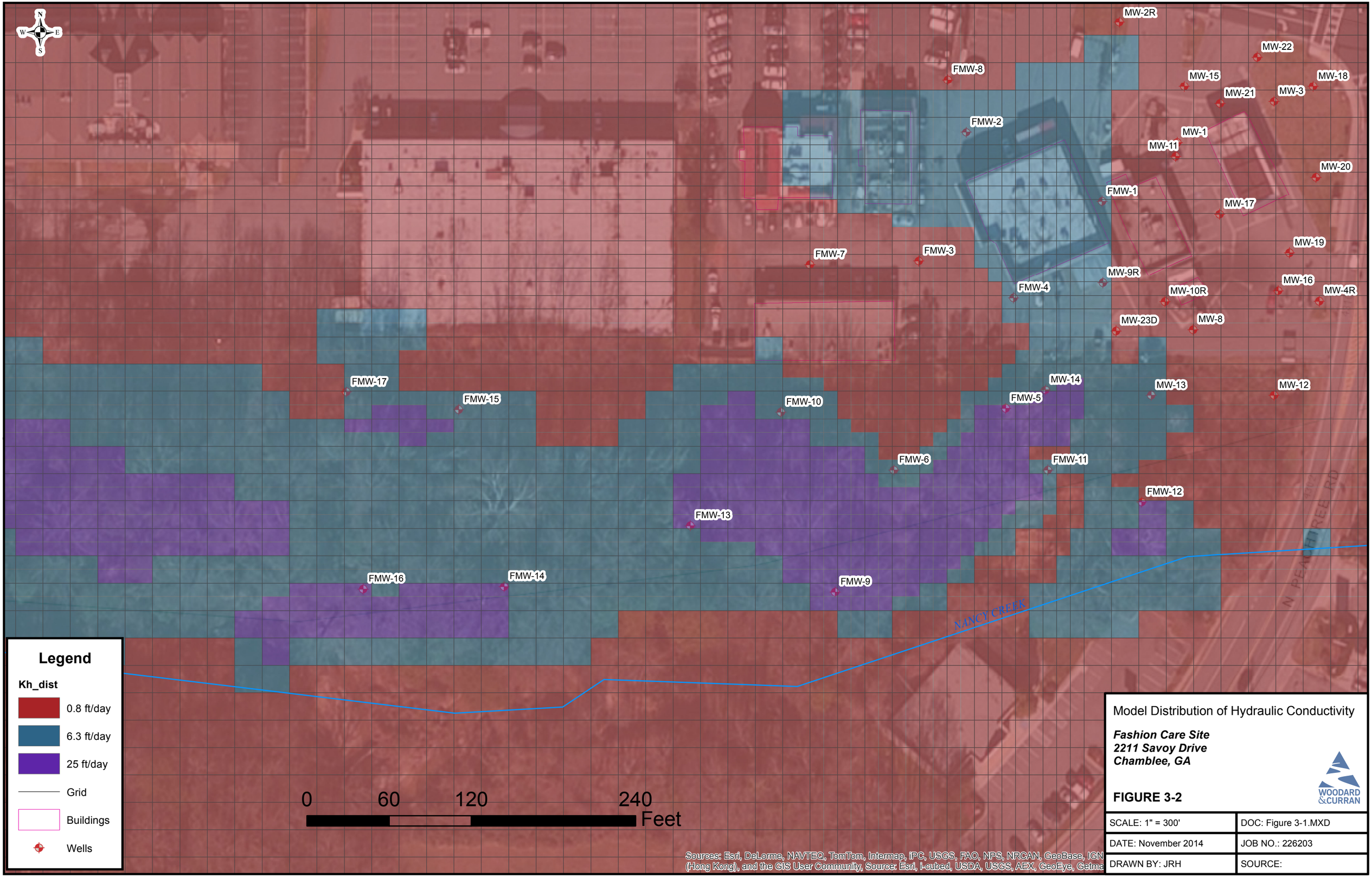
Model Grid and Boundary Conditions

Fashion Care Site
2211 Savoy Drive
Chamblee, GA

FIGURE 3-1

WOODARD &CURRAN

SCALE: 1" = 300'	DOC: Figure 3-1.MXD
DATE: November 2014	JOB NO.: 226203
DRAWN BY: JRH	SOURCE:



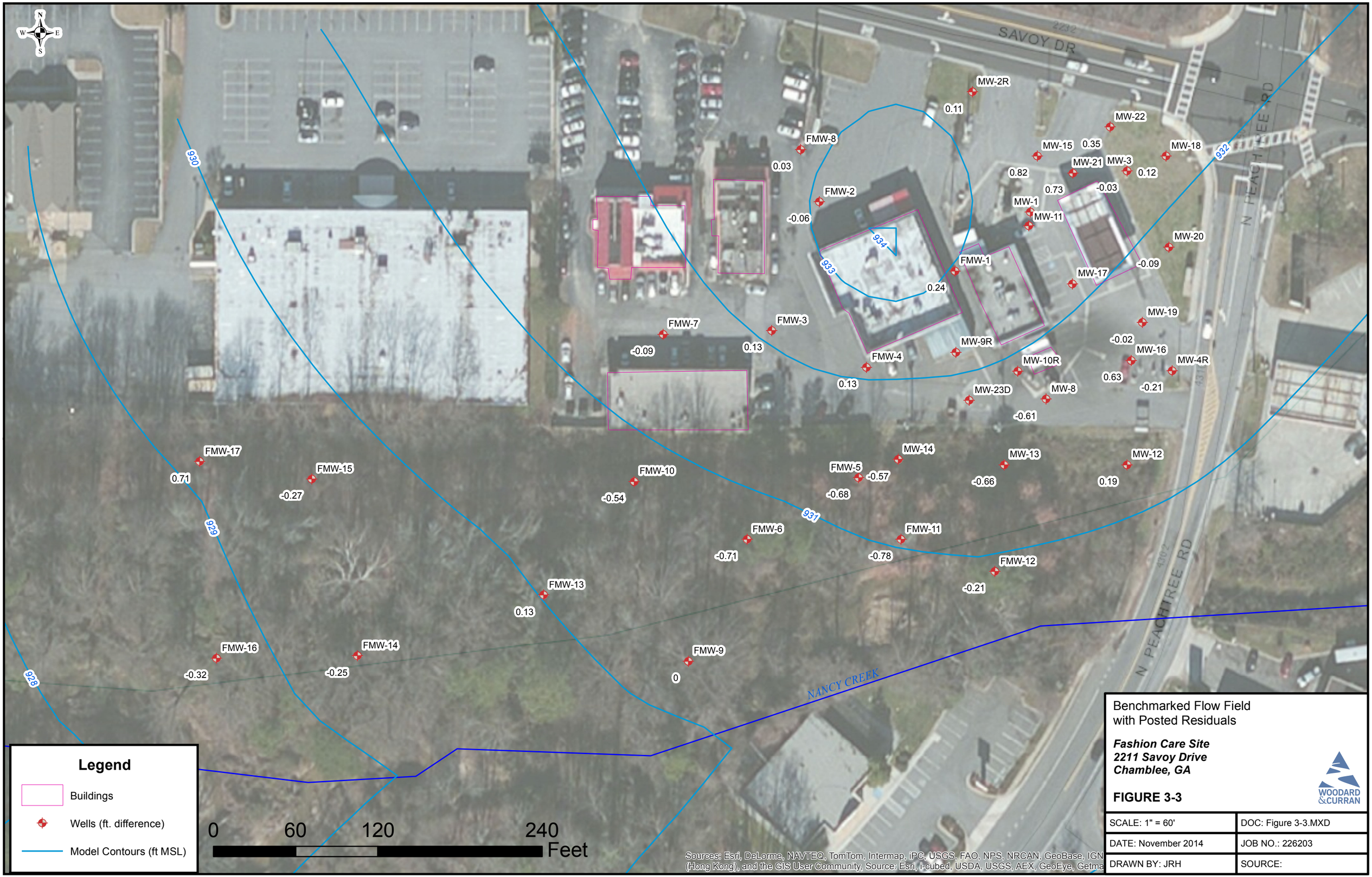
Model Distribution of Hydraulic Conductivity

Fashion Care Site
2211 Savoy Drive
Chamblee, GA

FIGURE 3-2

WOODARD &CURRAN

SCALE: 1" = 300'	DOC: Figure 3-1.MXD
DATE: November 2014	JOB NO.: 226203
DRAWN BY: JRH	SOURCE:



Benchmarked Flow Field
with Posted Residuals

Fashion Care Site
2211 Savoy Drive
Chamblee, GA

FIGURE 3-3

SCALE: 1" = 60'	DOC: Figure 3-3.MXD
DATE: November 2014	JOB NO.: 226203
DRAWN BY: JRH	SOURCE:

Figure 3-4: Observed versus Modeled Heads

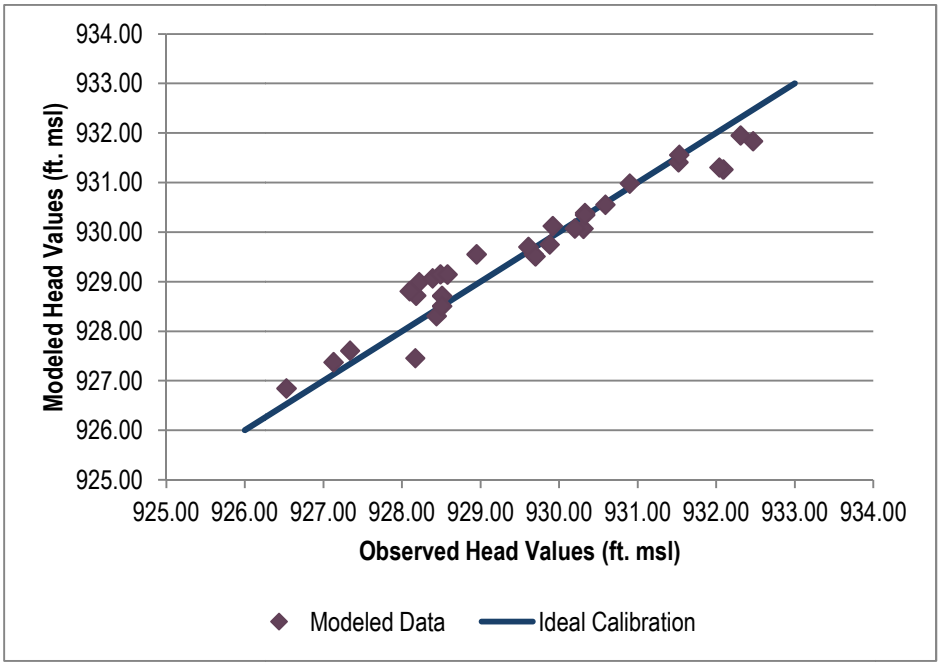
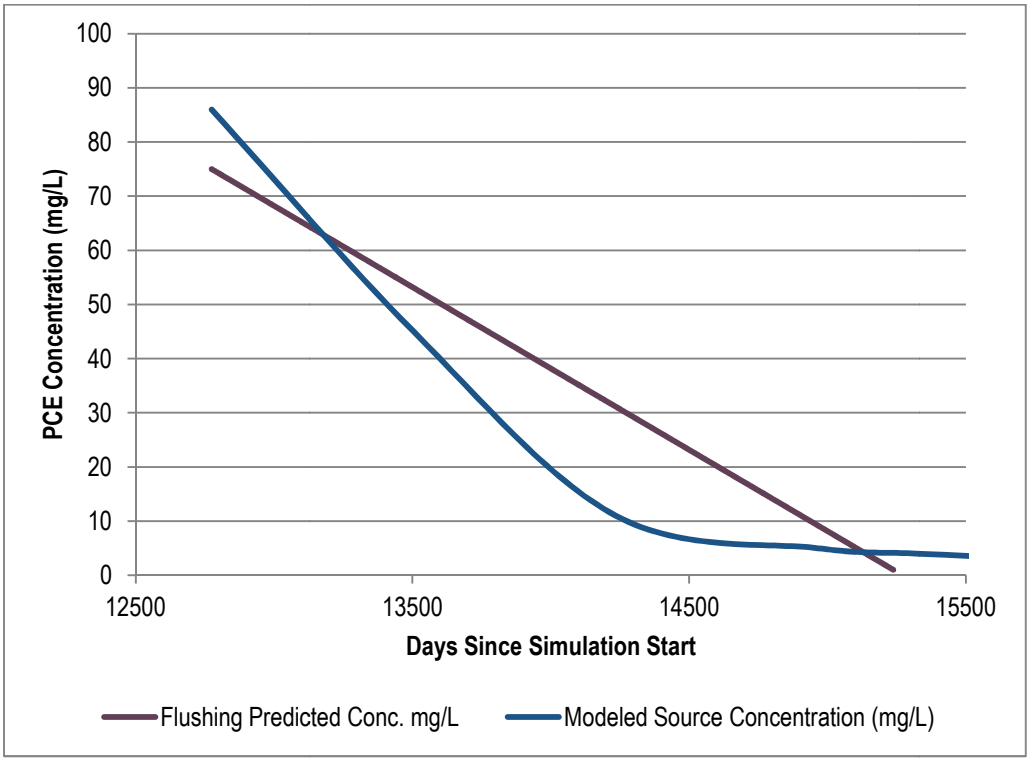
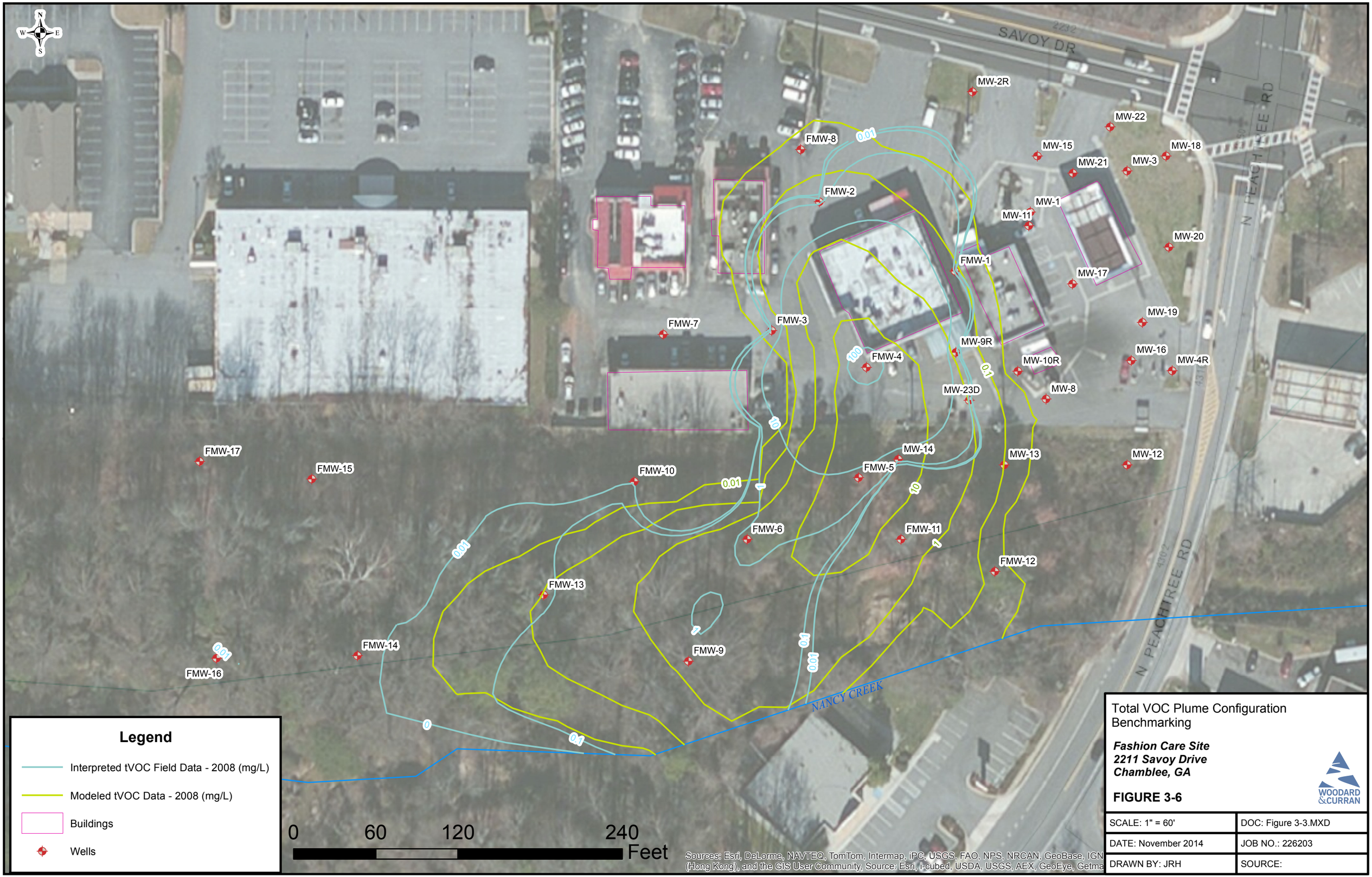


Figure 3-5: Soil Flushing versus MT3D Modeled Source Concentrations





Total VOC Plume Configuration
Benchmarking

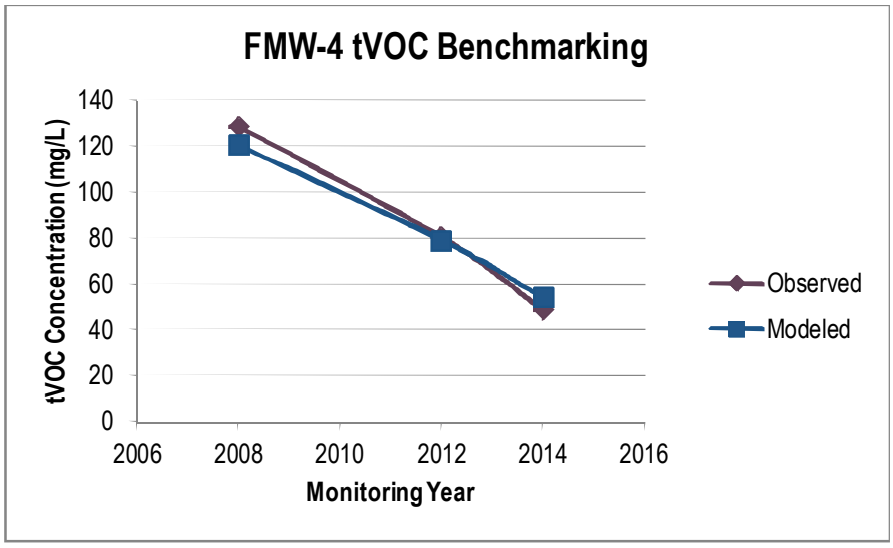
Fashion Care Site
2211 Savoy Drive
Chamblee, GA

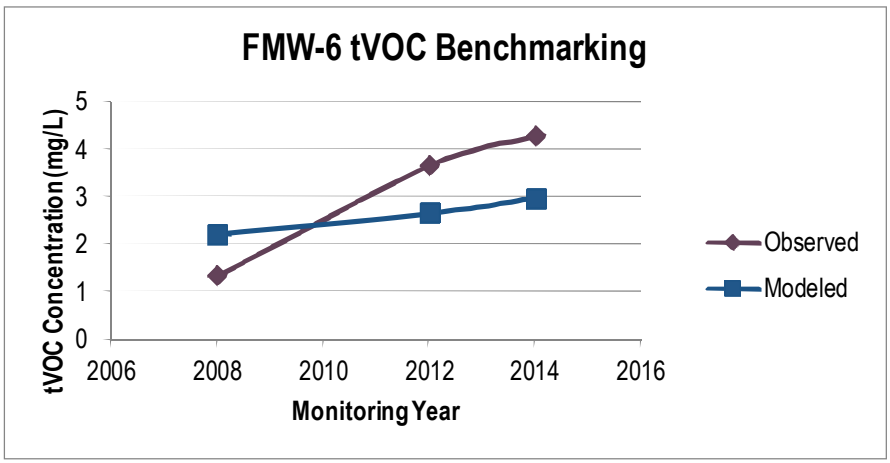
FIGURE 3-6

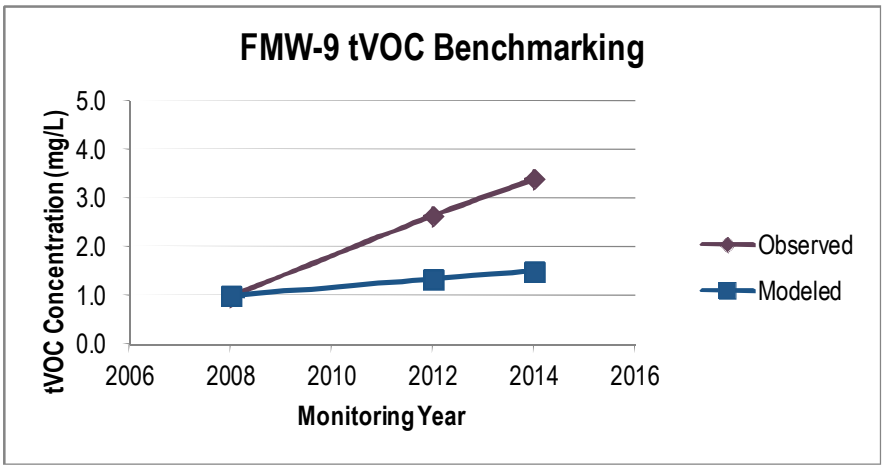
WOODARD &CURRAN

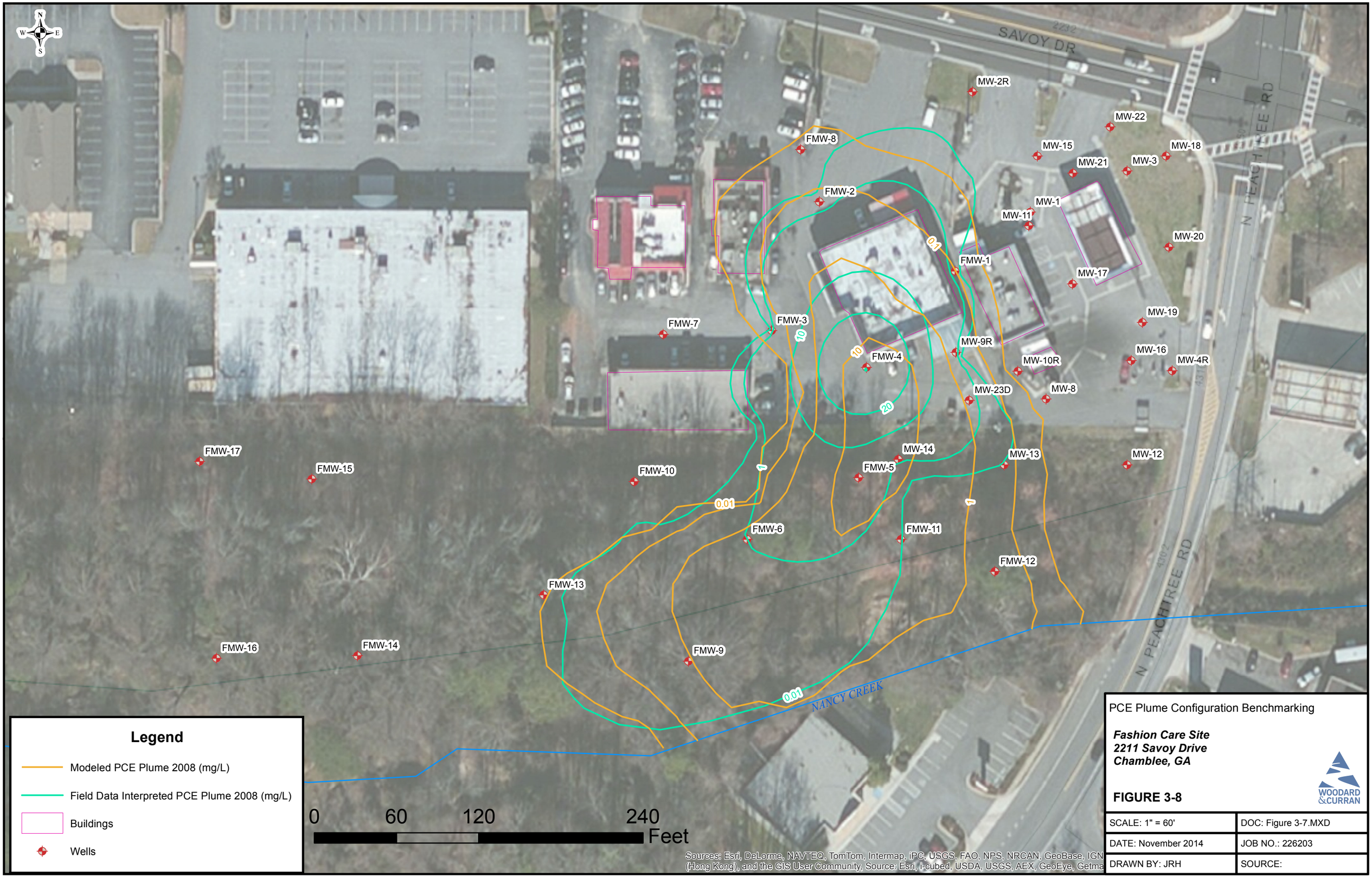
SCALE: 1" = 60'	DOC: Figure 3-3.MXD
DATE: November 2014	JOB NO.: 226203
DRAWN BY: JRH	SOURCE:

Figure 3-7: Total VOC Well Comparisons









PCE Plume Configuration Benchmarking

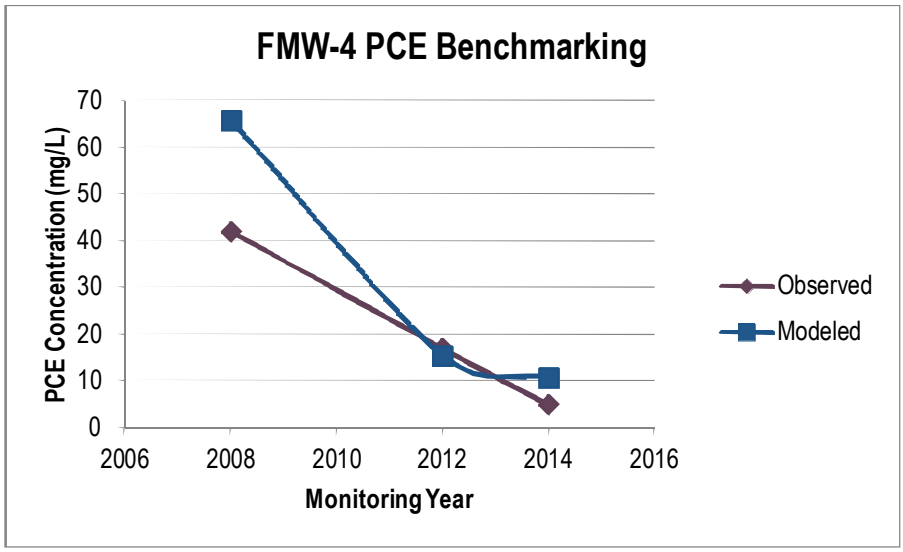
Fashion Care Site
2211 Savoy Drive
Chamblee, GA

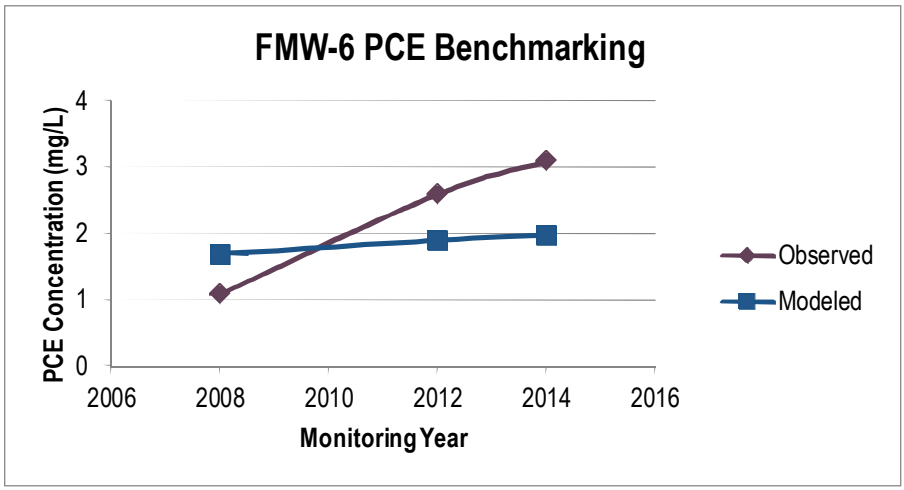
FIGURE 3-8

WOODARD &CURRAN

SCALE: 1" = 60'	DOC: Figure 3-7.MXD
DATE: November 2014	JOB NO.: 226203
DRAWN BY: JRH	SOURCE:

Figure 3-9: PCE Well Comparisons





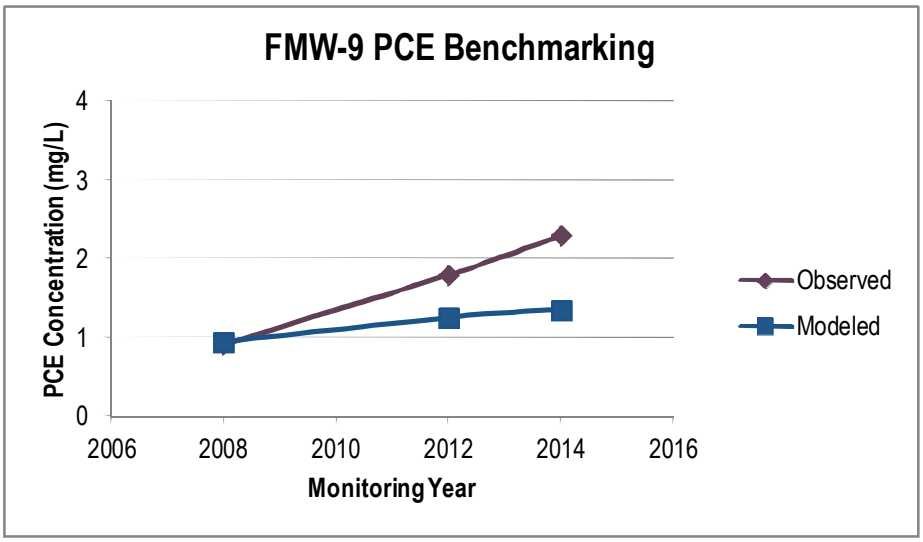
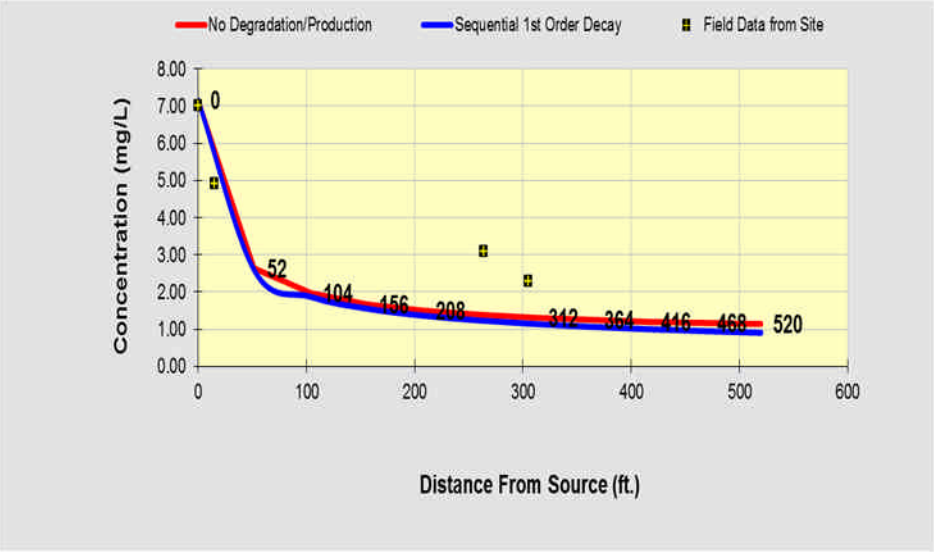
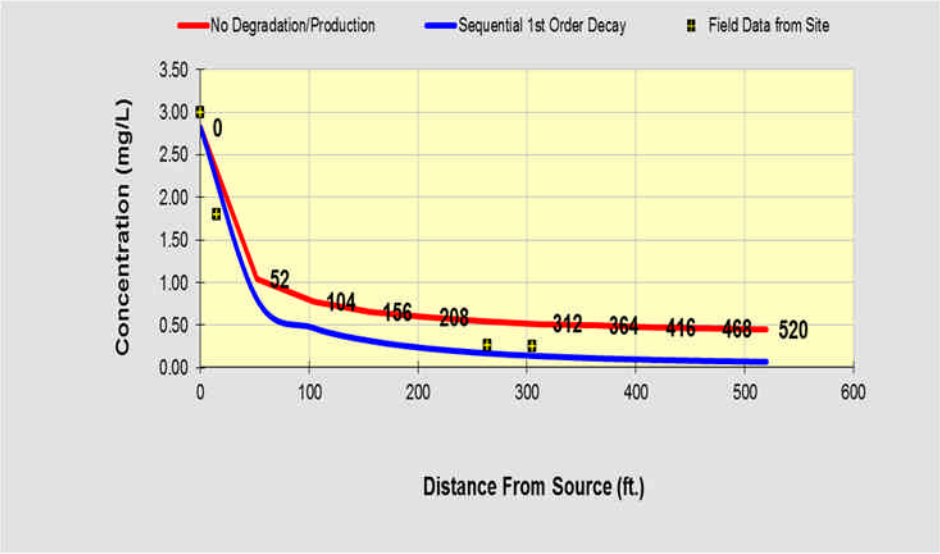


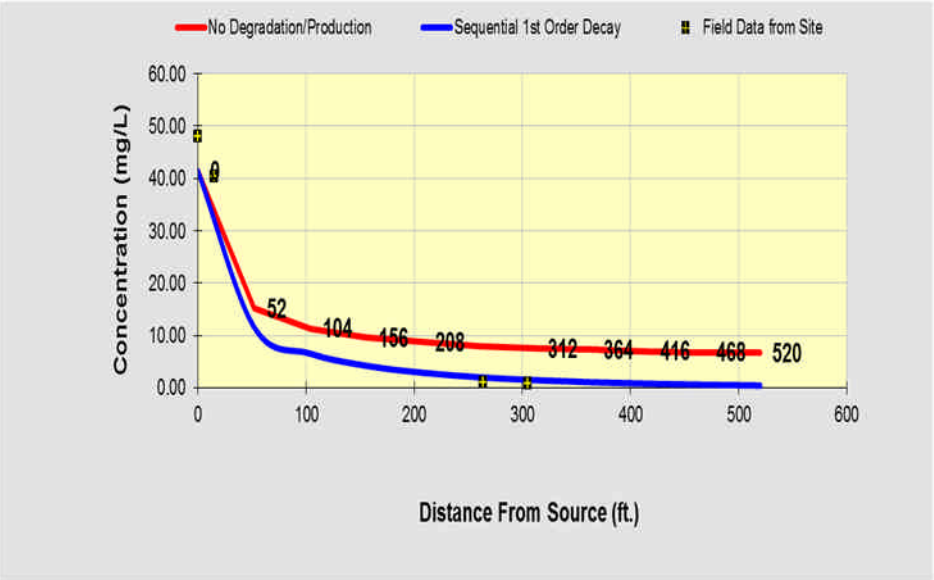
Figure 3-10: Modeled PCE and daughter product concentrations compared to field data



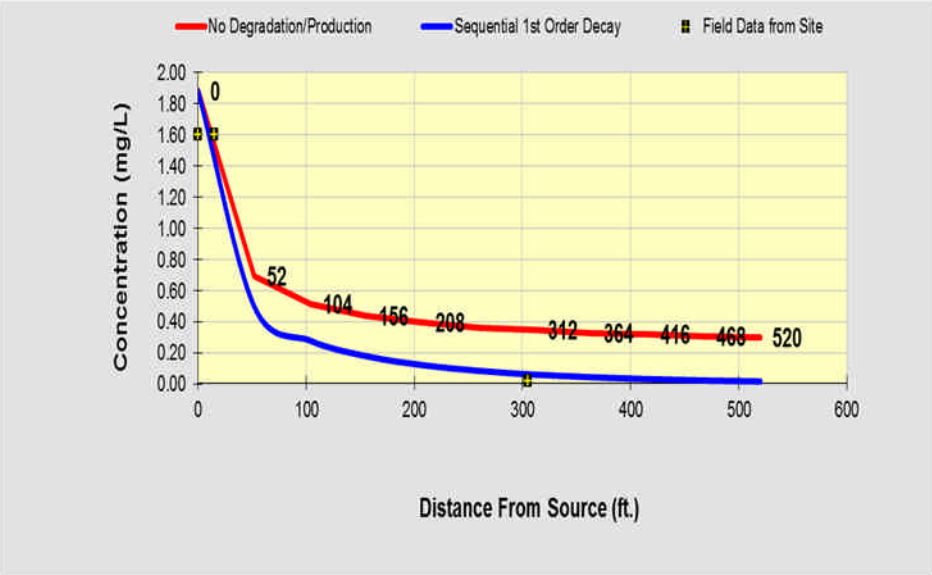
A. Modeled PCE concentrations versus distance along axis of plume.



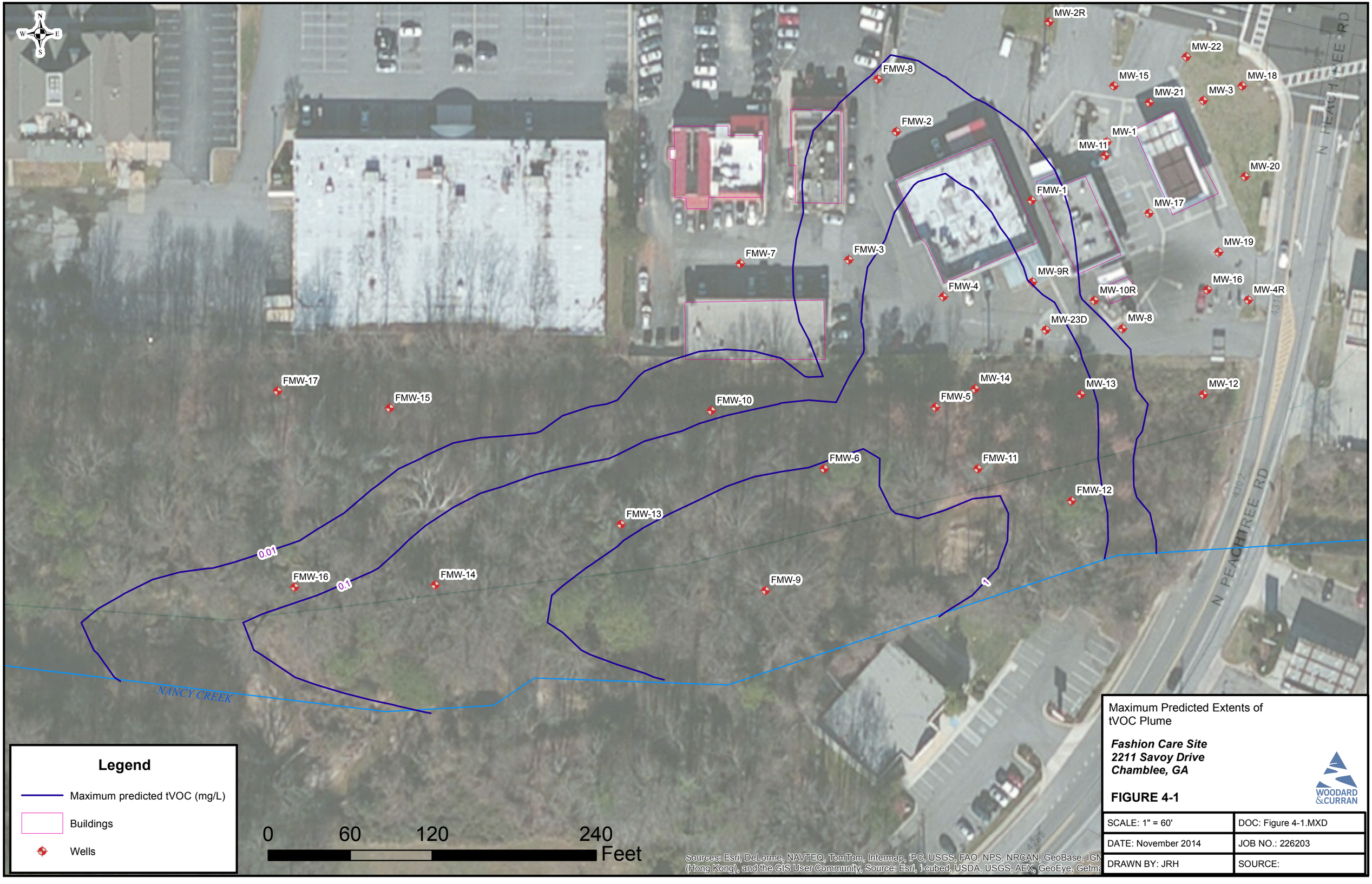
B. Modeled TCE concentrations along axis of plume

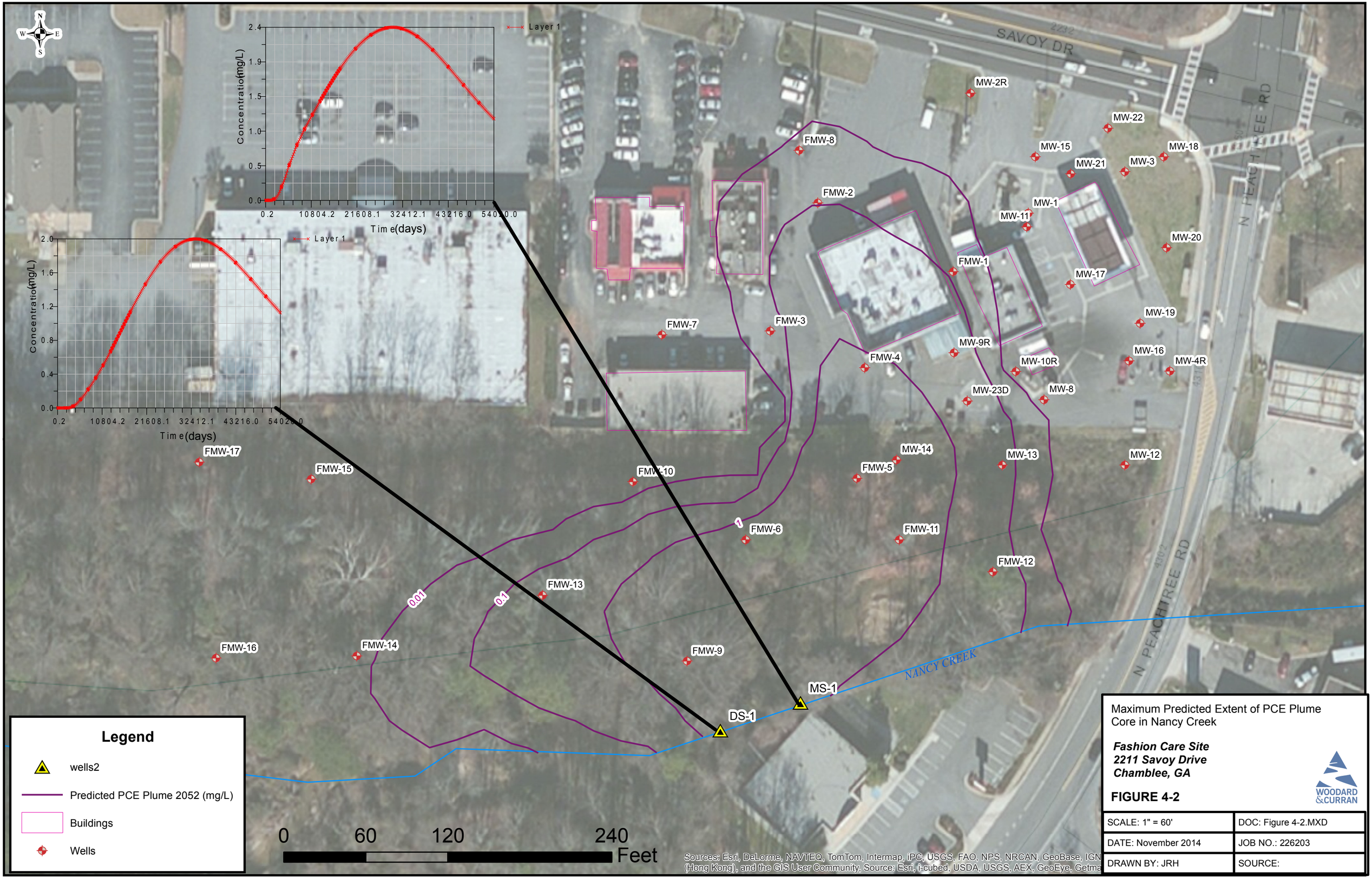


C. Modeled DCE concentrations versus distance along axis of plume



D. Modeled VC concentrations along axis of plume.


N
W
E
S
MW-2R
MW-22
MW-15
MW-18
MW-21
MW-3
FMW-8
FMW-2
MW-1
MW-11
MW-20
FMW-1
MW-17
MW-19
FMW-7
FMW-3
MW-9R
MW-16
MW-4R
FMW-4
MW-10R
MW-23D
MW-8
FMW-17
MW-14
MW-13
MW-12
FMW-15
FMW-10
FMW-5
FMW-6
FMW-11
FMW-12
FMW-13
0.01
FMW-16
0.1
FMW-14
FMW-9
1
NANCY CREEK
N PEACHTREE RD
0
60
120
240
Feet
Legend
Maximum predicted tVOC (mg/L)
Buildings
Wells
Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, iPC, USGS, FAO, NPS, NRCAN, GeoBase, IGN
(Hong Kong), and the GIS User Community, Source: Esri, i-cubed, USDA, USGS, AEX, GeoEye, Getma
Maximum Predicted Extents of
tVOC Plume
Fashion Care Site
2211 Savoy Drive
Chamblee, GA
FIGURE 4-1
WOODARD
&CURRAN
SCALE: 1" = 60'
DOC: Figure 4-1.MXD
DATE: November 2014
JOB NO.: 226203
DRAWN BY: JRH
SOURCE:



Maximum Predicted Extent of PCE Plume Core in Nancy Creek

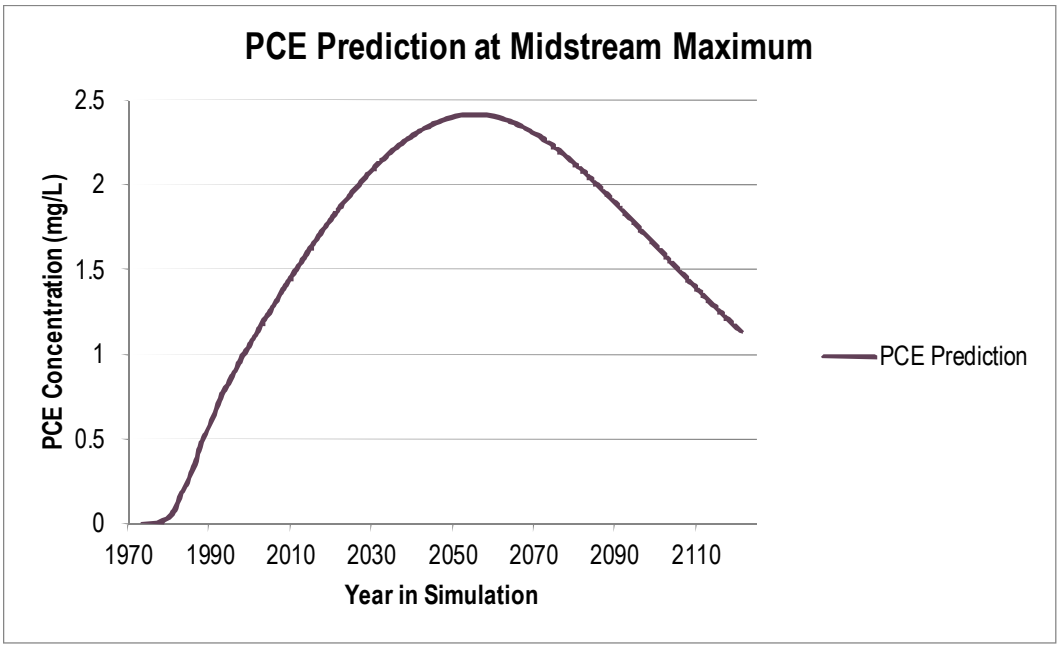
Fashion Care Site
2211 Savoy Drive
Chamblee, GA

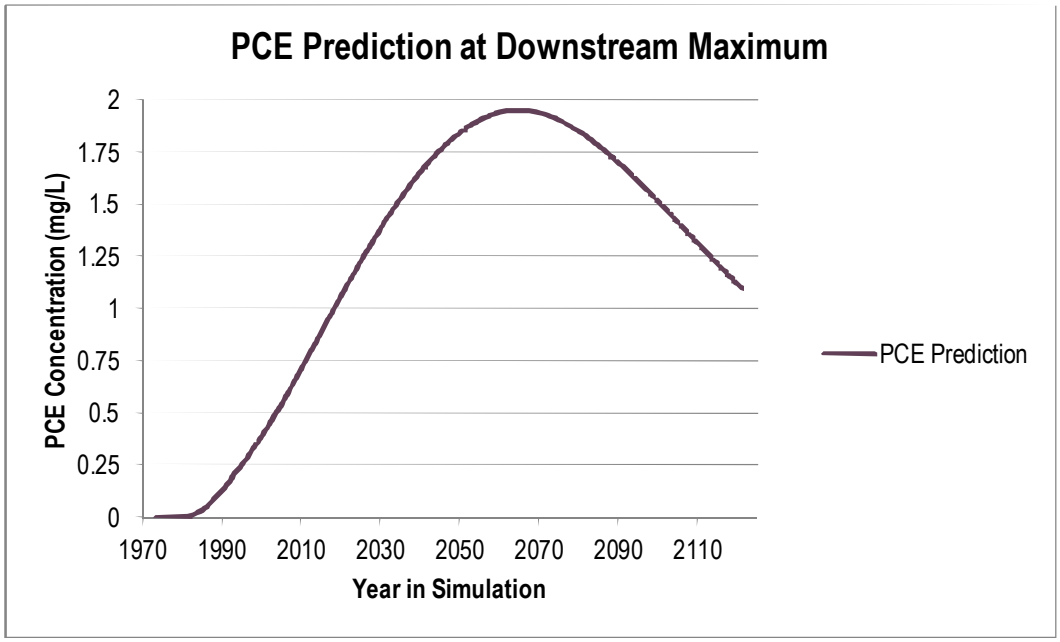
FIGURE 4-2

WOODARD & CURRAN

SCALE: 1" = 60'	DOC: Figure 4-2.MXD
DATE: November 2014	JOB NO.: 226203
DRAWN BY: JRH	SOURCE:

Figure 4-3: Maximum Predicted PCE Concentrations to Nancy Creek





TABLES

Table 2-1: Slug Testing Summary

Well ID	Slug-In	Slug-Out	Notes
	K (ft/day)	K(ft/day)	
FMW-1	0.58	0.45	2014 Testing
FMW-4	20	9.9	Historic Testing
FMW-5	9.9	3.7	2014 Testing
FMW-5	17	27	Historic Testing
FMW-9	57	7.2	2014 Testing

Table 2-2

Groundwater and Surface Water Elevation Data

Fashion Care/Executive Care VRP Site (HSI# 10786)

Well ID	Top of Casing Elevation (ft sd)	09/04/08	12/1-3/2008	03/19/10	04/07/10	07/10/12	04/01/14	Average Groundwater Elevation (ft sd)	Feet Above SG-1	Adjusted Elevation (ft msl)	Max. Groundwater Fluctuation (ft)	Lowest Groundwater Elevation		Highest Groundwater Elevation	
		Groundwater Elevation (ft sd)	Groundwater Elevation (ft sd)	Groundwater Elevation (ft sd)	Groundwater Elevation (ft sd)	Groundwater Elevation (ft sd)	Groundwater Elevation (ft sd)					bgs	ft sd	bgs	ft sd
FMW-1	98.92	83.87	84.01	87.82		83.62	85.87	85.04	1.85	930.31	4.20	15.30	83.62	11.10	87.82
FMW-10	92.85		82.61	83.49		82.15	83.40	82.91	0.28	928.18	1.34	10.70	82.15	9.36	83.49
FMW-11	94.40		82.75	83.37		82.39	83.30	82.95	0.24	928.22	0.98	12.01	82.39	11.03	83.37
FMW-12	95.90			83.35	83.27	83.01	83.32	83.24	0.05	928.51	0.34	12.89	83.01	12.55	83.35
FMW-13	92.05			83.77		82.13	83.60	83.17	0.02	928.44	1.64	9.92	82.13	8.28	83.77
FMW-14	92.03					81.15	82.57	81.86	1.33	927.13	1.42	10.88	81.15	9.46	82.57
FMW-15	92.10					80.95	83.18	82.07	1.13	927.34	2.23	11.15	80.95	8.92	83.18
FMW-16	91.32					80.57	81.94	81.26	1.94	926.53	1.37	10.75	80.57	9.38	81.94
FMW-17	91.90						82.90	82.90	0.29	928.17					
FMW-2	97.07	83.80	83.98	87.92		83.62	85.99	85.06	1.87	930.33	4.30	13.45	83.62	9.15	87.92
FMW-3	96.96	83.62	83.61	86.42		83.81	85.60	84.61	1.42	929.88	2.81	13.35	83.61	10.54	86.42
FMW-4	97.11	83.52	83.70	86.16		83.31	85.36	84.41	1.22	929.68	2.85	13.80	83.31	10.95	86.16
FMW-5	95.40	82.55	82.84	83.71		82.40	84.10	83.12	0.07	928.39	1.70	13.00	82.40	11.30	84.10
FMW-6	93.12	82.44	82.73	83.47		82.24	83.27	82.83	0.36	928.10	1.23	10.88	82.24	9.65	83.47
FMW-7	96.81		83.49	85.61		83.21	85.06	84.34	1.15	929.61	2.40	13.60	83.21	11.20	85.61
FMW-8	97.40		84.95	86.98		83.50	85.85	85.32	2.13	930.59	3.48	13.90	83.50	10.42	86.98
FMW-9	94.07		82.63	83.18	84.99	82.37	83.05	83.24	0.05	928.51	0.81	11.70	82.37	10.89	83.18
MW-1	98.51	82.71	82.42	88.60		-	-	84.58	1.39	929.85	6.18				
MW-11	98.77		84.06	87.27		-	-	85.67	2.47	930.94	3.21				
MW-12	97.52		84.09	84.77		-	-	84.43	1.24	929.70	0.68				
MW-13	96.49		82.75	83.69		-	-	83.22	0.03	928.49	0.94				
MW-14	96.59		82.78	83.84		-	-	83.31	0.12	928.58	1.06				
MW-15	98.91		84.70	88.94		-	-	86.82	3.63	932.09	4.24				
MW-16	98.54		85.00	89.39		-	-	87.20	4.01	932.47	4.39				
MW-18	96.68		84.27	85.58		-	-	84.93	1.74	930.20	1.31				
MW-19	97.31		84.35	85.76		-	-	85.06	1.87	930.33	1.41				
MW-20	97.86		84.42	86.84		-	-	85.63	2.44	930.90	2.42				
MW-21	99.00		84.66	88.88		-	-	86.77	3.58	932.04	4.22				
MW-22	99.48		84.84	89.24		-	-	87.04	3.85	932.31	4.40				
MW-23D	96.13		83.34	85.01		-	-	84.18	0.98	929.45	1.67				
MW-2R	98.38	84.55	84.88	89.32		-	-	86.25	3.06	931.52	4.77				
MW-3	98.56	84.64	84.87	89.26		-	-	86.26	3.07	931.53	4.62				
MW-4R	96.72	84.10	84.27	85.57		-	-	84.65	1.46	929.92	1.47				
MW-8	96.62	83.08	83.31	84.64		-	-	83.68	0.49	928.95	1.56				
MW-9R	97.11	83.23	83.46	85.36		-	-	84.02	0.83	929.29	2.13				
SB-24	98.56	84.06	-	87.45		83.86	90.24	86.40	3.21	931.67	6.38	14.70	83.86	8.32	90.24
SB-25	98.50		84.12	87.10		83.70	86.06	85.25	2.06	930.52	2.36	14.80	83.70	12.44	86.06
SB-26	98.36	85.19	85.02	86.86		85.51	87.93	86.10	2.91	931.37	2.91	13.34	85.02	10.43	87.93
SG-1	86.84			83.19	3.72					928.46					
SG-2	86.38			82.51	3.94				0.68	927.78					

NOTES:

ft sd, feet relative to site datum.

ft toc, feet below top of casing.

MW-5, MW-6 and MW-7 do not exist

-, denotes no free-phase petroleum was found in the well

NT, measurement not taken

NI, Monitoring well not installed

Abandoned, Wells were abandoned by the EPD UST Program

Lost, Surface water guages lost to storm flow in Nancy Creek.

FMW-14, FMW-15, FMW-16 installed 5/27/10, 6/15/10 and 6/15/10, respectively.

Table 3-1: Calibration Data and Statistics
Fashion Care Site
Chamblee, GA

Name	Observed Head (ft)	Modeled Head (ft)	Residual
FMW-1	930.31	930.07	0.24
FMW-10	928.18	928.72	-0.54
FMW-11	928.22	929.00	-0.78
FMW-12	928.51	928.72	-0.21
FMW-13	928.44	928.31	0.13
FMW-14	927.13	927.38	-0.25
FMW-15	927.34	927.61	-0.27
FMW-16	926.53	926.85	-0.32
FMW-17	928.17	927.46	0.71
FMW-2	930.33	930.39	-0.06
FMW-3	929.88	929.75	0.13
FMW-4	929.68	929.55	0.13
FMW-5	928.39	929.07	-0.68
FMW-6	928.1	928.81	-0.71
FMW-7	929.61	929.70	-0.09
FMW-8	930.59	930.56	0.03
FMW-9	928.51	928.51	0.00
MW-12	929.7	929.51	0.19
MW-13	928.49	929.15	-0.66
MW-14	928.58	929.15	-0.57
MW-15	932.09	931.27	0.82
MW-18	930.2	930.08	0.12
MW-16	932.47	931.84	0.63
MW-19	930.33	930.35	-0.02
MW-20	930.9	930.99	-0.09
MW-21	932.04	931.31	0.73
MW-22	932.31	931.96	0.35
MW-2R	931.52	931.41	0.11
MW-3	931.53	931.56	-0.03
MW-4R	929.92	930.13	-0.21
MW-8	928.95	929.56	-0.61
Residual Mean			-0.06
Absoluate Residual Mean			0.34
Residual Std. Deviation			0.43
Sum of Squares			5.74
RMS Error			0.43
Min. Residual			-0.78
Max. Residual			0.82
Number of Observations			31
Range in Observations			5.94
Scaled Residual Std. Deviation			0.07
Scaled Absolute Residual Mean			0.06
Scaled RMS Error			0.07
Scaled Residual Mean			-0.01

Table 3-2: Model Parameters for BIOCHLOR Simulation

General			***Source***		
Simulation Time	41	yrs	PCE	190	mg/L
Modeled Width	190	ft	TCE	75	mg/L
Modeled Length	520	ft	DCE	1100	mg/L
Zone 1 Length	520	ft	VC	50	mg/L
Source Thickness	15	ft	ETH	1.8	mg/L
Source Width	25	ft			
Advection			***Dispersion***		
K	0.0068	cm/sec	αx	22	ft
i	0.005192	ft/ft	αy/ αx	0.32	unitless
n	0.09	unitless	αz/ αx	0.002	unitless
Seepage Velocity	407	ft/yr			
Adsorption					
Soil bulk density	1.75	kg/L			
foc	0.002	unitless			

Partition Coefficients			***R value***	***Biotransformation***		
				Zone 1 Path	***λ (1/yr)***	***Yield***
PCE	95	L/kg	4.69	PCE -> TCE	0.18	0.79
TCE	61	L/kg	3.36	TCE -> DCE	2.6	0.74
DCE	40	L/kg	2.54	DCE -> VC	2.5	0.64
VC	22	L/kg	1.85	VC -> ETH	40	0.45
ETH	302	L/kg	12.74			
Common R used in model			3.36			

Table 4-1: Predicted Point Concentrations in Surface Water after Mixing

	Initial Source Concentration for Forward BIOCHLOR Simulation (mg/L)	GW conc. (mg/L) at MS-1	Mixed Conc. (mg/L) at MS-1	GA ISWQC (mg/L)	Above Criteria
PCE	17	2.42	0.00153	0.003	no
TCE	22	0.924	0.000584	0.030	no
DCE	75	3.823	0.002417	10.000	no
VC	2.4	0.162	0.000102	0.0024	no
VC (no degradation)	2.4	0.392	0.000248	0.0024	no

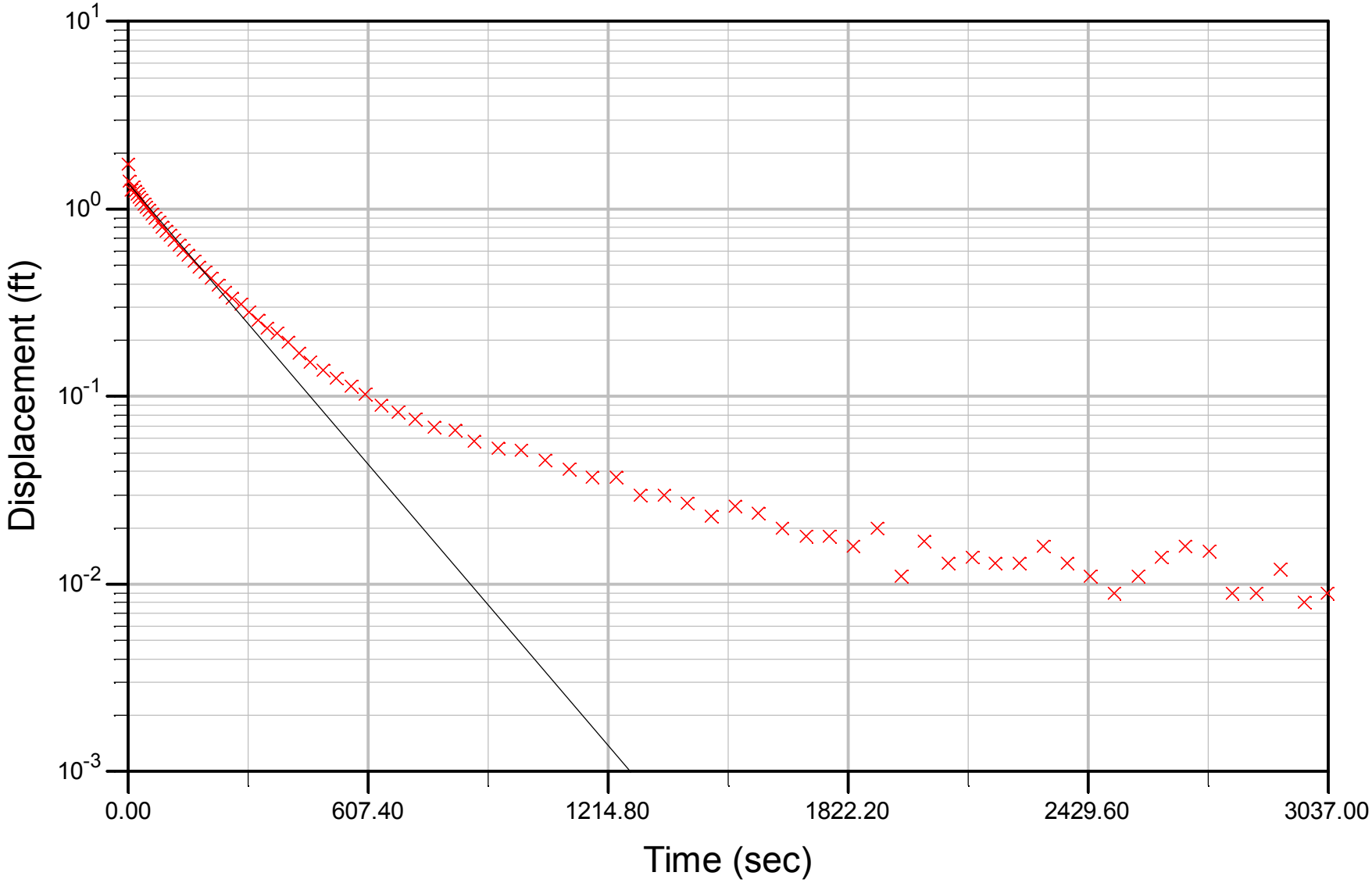
Notes: SW/GW = Surface water/Groundwater
GA ISWQC = Georgia In-Stream Water Quality Criteria

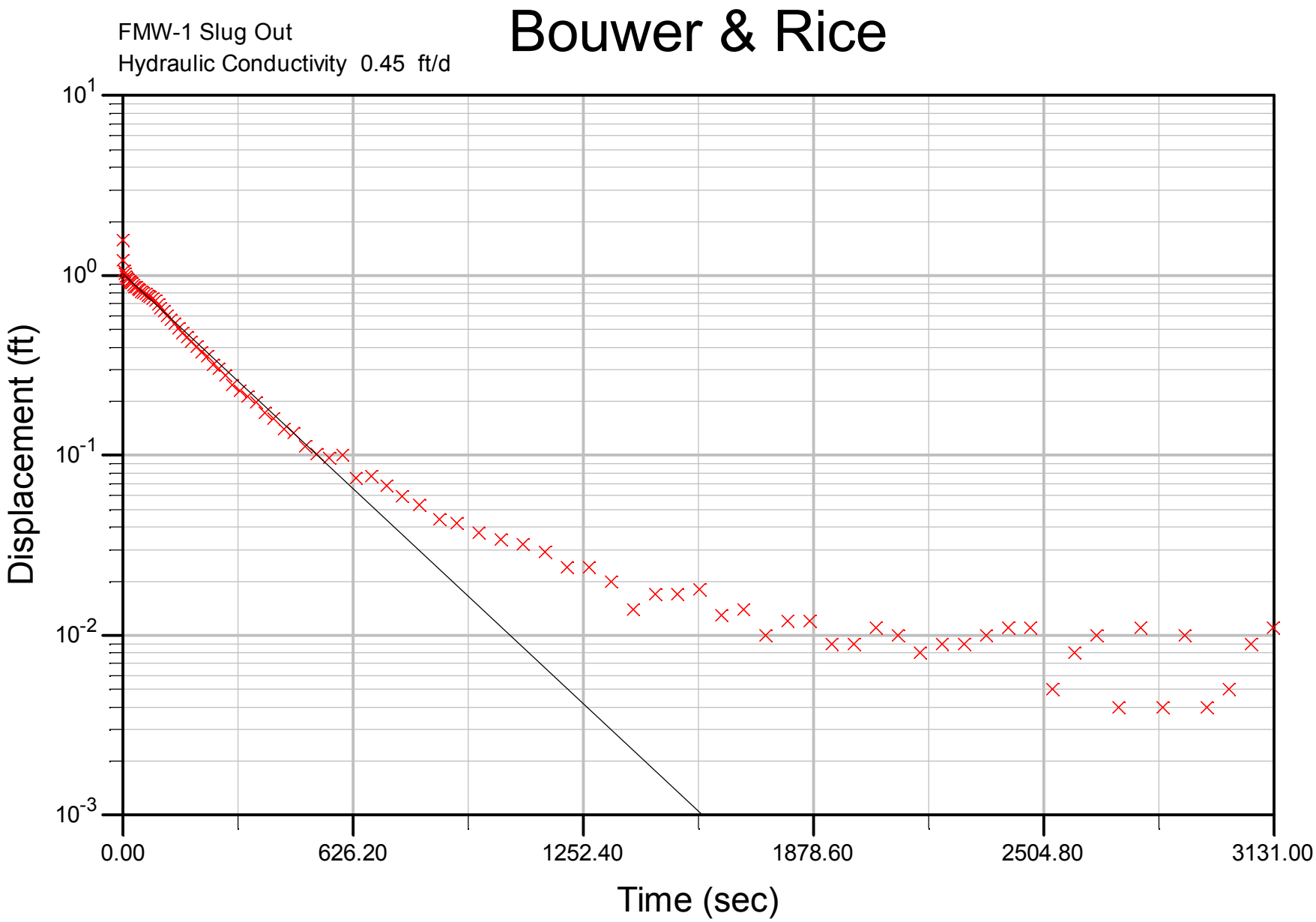
APPENDIX A: 2014 SLUG TESTING

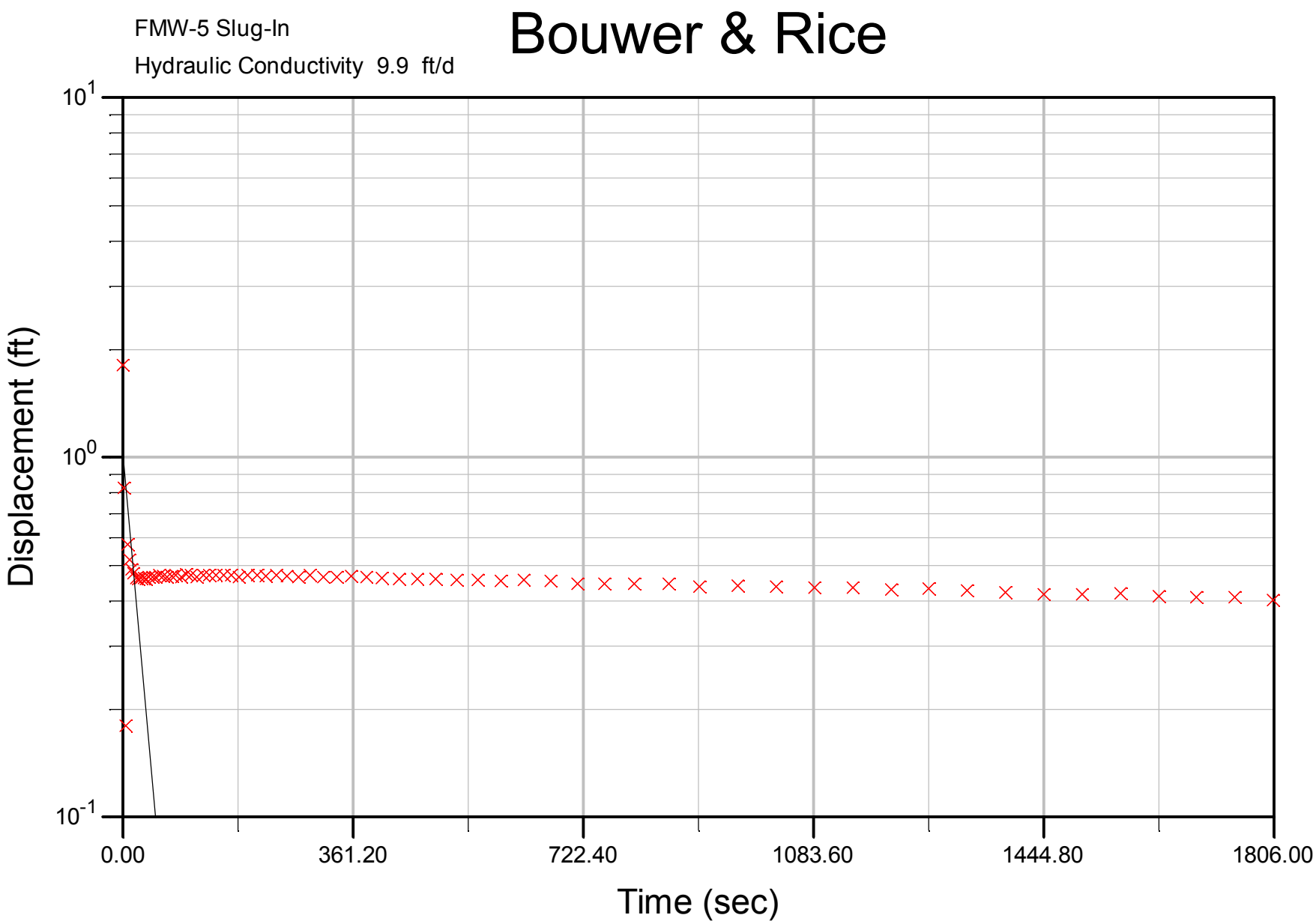
FMW-1 Slug-In

Hydraulic Conductivity 0.58 ft/d

Bouwer & Rice



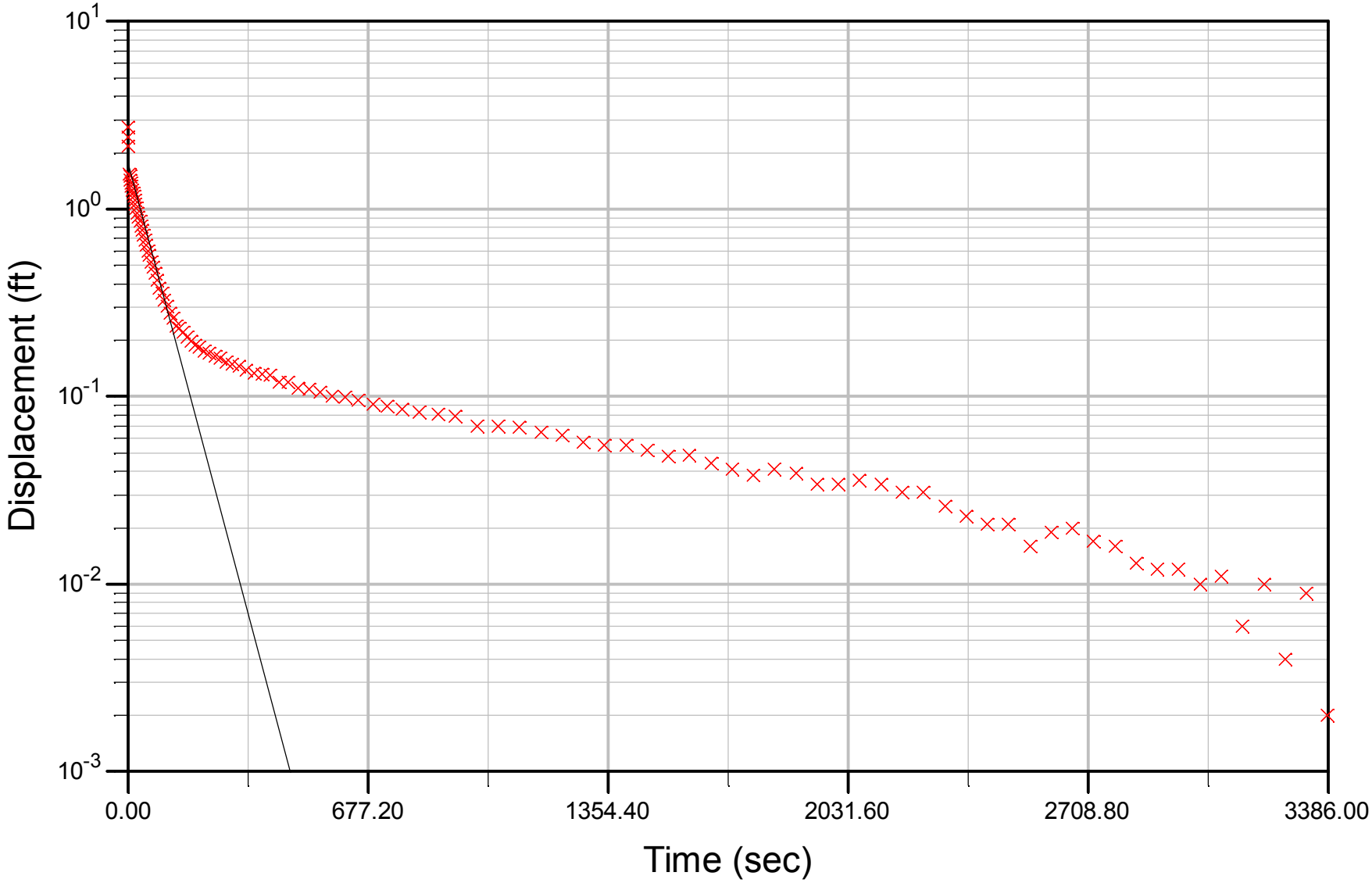

Bouwer & Rice
FMW-1 Slug Out
Hydraulic Conductivity 0.45 ft/d
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.00
626.20
1252.40
1878.60
2504.80
3131.00
Time (sec)

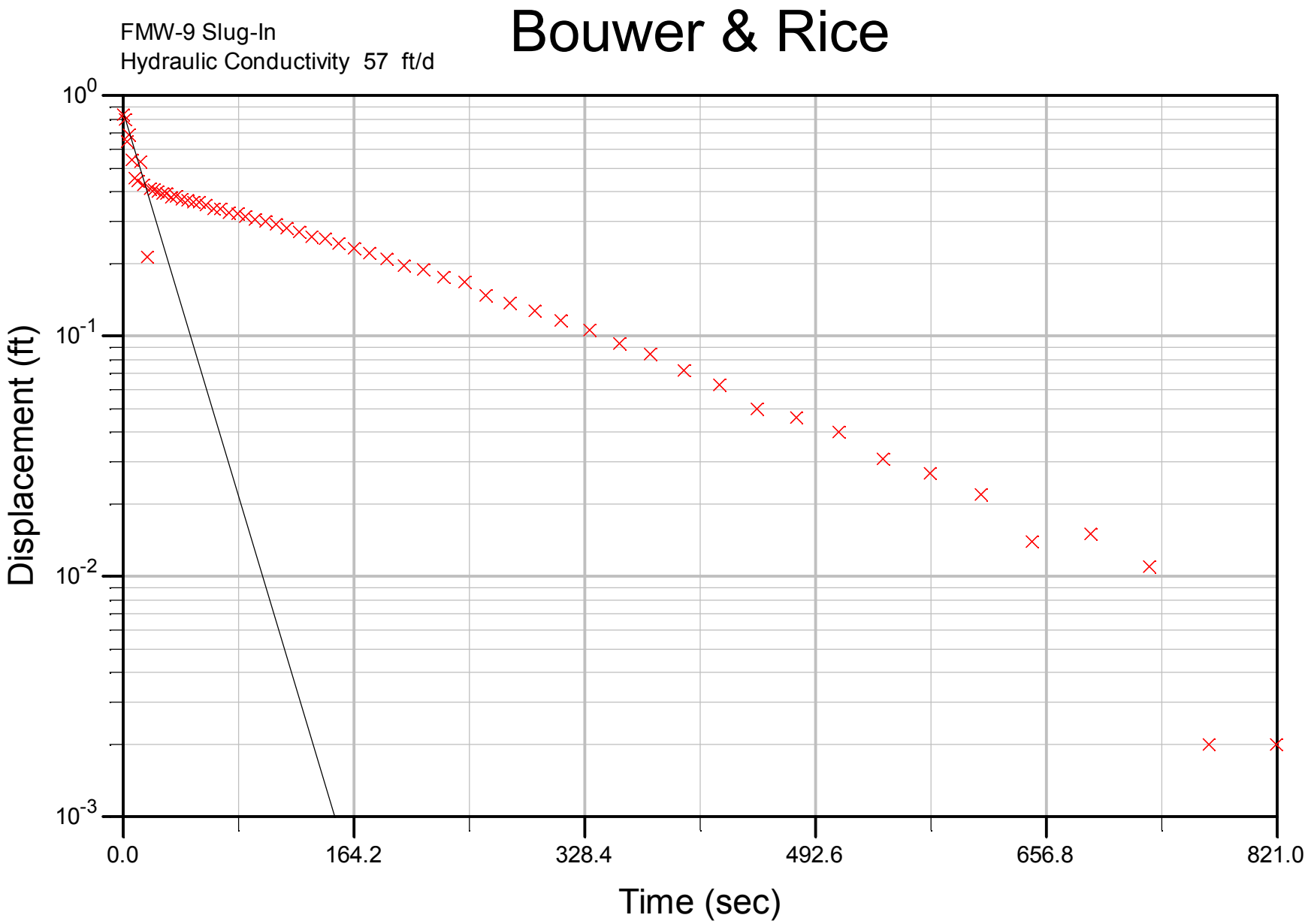

FMW-5 Slug-In
Hydraulic Conductivity 9.9 ft/d
Bouwer & Rice
Displacement (ft)
10^1
10^0
10^{-1}
0.00
361.20
722.40
1083.60
1444.80
1806.00
Time (sec)

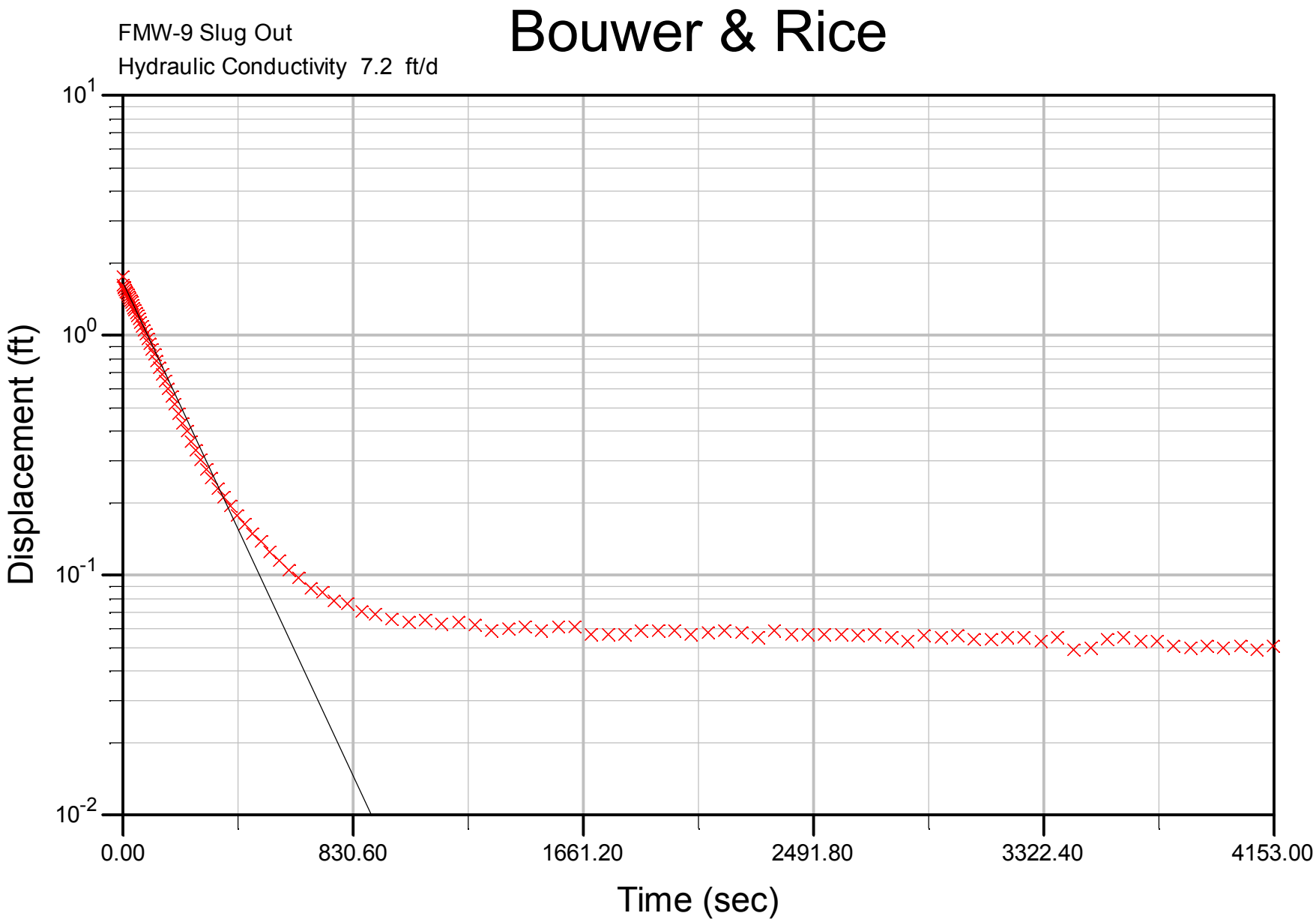
FMW-5 Slug-Out

Hydraulic Conductivity 3.68 ft/d

Bouwer & Rice




FMW-9 Slug-In
Hydraulic Conductivity 57 ft/d
Bouwer & Rice
Displacement (ft)
10^0
10^{-1}
10^{-2}
10^{-3}
0.0
164.2
328.4
492.6
656.8
821.0
Time (sec)


Bouwer & Rice
FMW-9 Slug Out
Hydraulic Conductivity 7.2 ft/d
Displacement (ft)
10^1
10^0
10^{-1}
10^{-2}
0.00
830.60
1661.20
2491.80
3322.40
4153.00
Time (sec)

APPENDIX B: HYDROGEOLOGIC SOIL BORING LOGS

Project Photos

Nancy Creek Hand Auger Borings
Fashion Care/Executive Care
VRP Site
2211 Savoy Drive
Chamblee, GA

Photo 1

Description: Location of boring CK-HA-1. An erosional surface at the base of the channel of Nancy Creek.

View Direction: North

Date Taken: 09/09/2014

Photo 2

Description: Hand auger cuttings, boring CK-HA-1.

Date Taken: 09/09/2014

Project Photos

Nancy Creek Hand Auger Borings
Fashion Care/Executive Care
VRP Site
2211 Savoy Drive
Chamblee, GA

Photo 3

Description: Hand auger cuttings, boring CK-HA-1.

Date Taken: 09/09/2014

Photo 4

Description: Location of boring CK-HA-2. An erosional surface at the base of the channel of Nancy Creek

View Direction: South

Date Taken: 09/09/2014

Project Photos

Nancy Creek Hand Auger Borings
Fashion Care/Executive Care
VRP Site
2211 Savoy Drive
Chamblee, GA

Photo 5

Description: Hand auger cuttings, boring CK-HA-2.

Date Taken: 09/09/2014

Soil Boring Log

Boring ID: **CK-HA-1**
Nancy Creek

Project:	Fashion Care Cleaners	Elevation:	
Project No:	226203	Date started:	9/9/2014
Location:	2211 Savoy Drive, Chamblee, GA	Date Completed:	9/9/2014
Driller:	Hand Auger	Field Oversight:	LJD
DTW:	NA	Final Depth:	2.5 ft

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	PID (ppm)	Remarks
0	Surface Water-Base of creek 1' below water surface		No samples collected	No readings collected	This boring was located slightly upstream of FMW-11. Surface water level and flow normal. Boring located in an erosional bend of the creek with no sediment accumulation. Exposed bank was a reddish-brown, sandy to clayey SILT.
	Grey, clayey SILT				
5	Reddish-brown, poorly sorted, sub-angular to well-rounded very coarse SAND w/large sub-angular to well-rounded pebbles				
	Hand auger boring termiated at approx. 2.5 ft.				
10					
15					
20					
25					
30					
35					

GENERAL SOIL PROFILE AT BORING LOCATION CK-HA-1

Elevation (relative to arbitrary datum of	Feet BGS	
91.5	0	Ground Surface
		Reddish Brown SILT with varying content of clay and very fine sand
86.5	5	
		(Saturated approx. 7.5-8 ft BGS)
	SW	(Approx. average surface water elevation 83.16 ft; Approx. Base of Creek, 1 ft below SW at boring CK-HA-1)
81.5	BOC 10	
		Reddish-brown, poorly sorted, sub-angular to well- rounded very coarse SAND w/large sub-angular to well-rounded pebbles. Thickness varies from 1-4 ft across site.
		Red to Brown SILT - moist
76.5	15	**Reddish-Brown SILT - dry, dense**
71.5	20	
		Bedrock
	25	

Notes:
Created from boring logs from SB-41, FMW-11, FMW-12 and CK-HA-1.
▼ Top of saturated zone.
SW Approximate surface water elevation during non-storm events.
BOC Approximate base of creek channel on September 9, 2014 at hand auger location relative to top of surface water.

Soil Boring Log

Boring ID **CK-HA-2**
Nancy Creek

Project:	Fashion Care Cleaners	Elevation:	
Project No:	226203	Date started:	9/9/2014
Location:	2211 Savoy Drive, Chamblee, GA	Date Completed:	9/9/2014
Driller:	Hand Auger	Field Oversight:	LJD
DTW:	NA	Final Depth:	1.5 ft

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	PID (ppm)	Remarks
0	Surface Water-Base of creek 2' below water surface		No samples collected	No readings collected	This boring was located downstream of FMW-9, estimated due south of FMW-13. Surface water level and flow normal. Boring located in an erosional bend of the creek with some sediment accumulation.
	Grey, clayey SILT				
5	Hand auger boring termiated at approx. 2.5 ft.				
10					
15					
20					
25					
30					
35					

GENERAL SOIL PROFILE AT BORING LOCATION CK-HA-2

Elevation (relative to arbitrary datum of	Feet BGS	
91	0	Ground Surface
		Reddish Brown SILT with varying content of clay and very fine sand
86	5	
		(Saturated approx. 8.5-9 ft BGS)
		(Approx. average surface water elevation 82.48 ft; Approx. Base of Creek, 2 ft below SW at boring CK-HA-2)
	SW	
81	10	**Grey to Tan, poorly sorted, sub-angular to well- rounded very coarse SAND w/large sub-angular to well-rounded pebbles.** Thickness varies from 1-4 ft across site.
	BOC	
		Red to Brown to Grey SILT - moist
76	15	
		Reddish-Brown SILT - dry, dense
71	20	
	25	

Notes:
Created from boring logs from SB-43, FMW-9 and CK-HA-2.
▼ Top of saturated zone.
SW Approximate surface water elevation during non-storm events.
BOC Approximate base of creek channel on September 9, 2014 at hand auger location relative to top of surface water.

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-41

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	7.5'	Final Depth:	21'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Reddish-Brown sandy SILT - dry	40%		Dry silt from 17' to 21' (refusal).
				Boring was sealed w/hydrated bentonite
5				Picture # 3
	Becoming Reddish-Gray - moist	85%		
	▽ Saturated @ 7.5'			
10		80%		
	Reddish-Brown sandy SILT - moist			
15	Red to Brown SILT - moist	40%		
	Reddish-Brown SILT - dry, dense			
20		10%		
	Refusal @ 21'			
25				
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-43

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	9'	Final Depth:	20'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Reddish-Brown sandy SILT - dry	40%		Dry silt from 15' to 20' (termination).
				Boring was sealed w/hydrated bentonite
5	Becoming moist	60%		Picture # 5&6
10	Gray to Tan SAND, course - wet, saturated @ 9' w/pebbles	50%		
	Reddish-Brown SILT - moist			
15	Reddish-Brown SILT - dry, dense	90%		
20	Boring Terminated @ 20'			
25				
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-44

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	7'	Final Depth:	20'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Reddish-Brown clayey SILT - dry	50%		Dry silt from 15' to 20' (termination).
	Becoming moist			Boring was sealed w/hydrated bentonite
5				Picture # 7 is the bottom 0f 10'-15' and 15'-20'
▽	Gray SAND course - wet, saturated @7'	60%		
10	w/some pebbles	70%		
	Tan to Reddish-Brown SILT - moist			
15	Tan to Reddish-Brown SILT - dry, dense	100%		
20	Boring Terminated @ 20'			
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-9

Project: Fashion Care
Project No: 8096
Location: Southwest of dry cleaner near creek
Driller: Atlas Geo Sampling
DTW: 8.5' Final Depth: 16'

Elevation:
Date started: 11/25/08
Date Completed: 11/25/08
Field Oversite: Len Diprima/Joe King

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish Brown SILT	45%		No soil samples collected
5	(7') Moist.	60%		
	▽WT~8.5'			
10	8.5' Grey sandy SILT, w/scattered round pebbles, WET	50%		
15	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: FMW-11

Project: Fashion Care
Project No: 8096
Location: South of dry cleaner
Driller: Atlas Geo Sampling
DTW: 9' Final Depth: 16'

Elevation:
Date started: 11/25/08
Date Completed: 11/25/08
Field Oversite: Len Diprima/Joe King

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish Brown silty CLAY, mosit	50%		No soil samples collected
5		80%		
	▽ WT~9'			
10	Reddish Tan silty CLAY, WET	100%		
15		100%		
	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: **FMW-12**

Project:	Fashion Care	Elevation:	
Project No:	8096	Date started:	3/17/10
Location:	South of dry cleaner	Date Completed:	3/17/10
Driller:	Atlas Geo Sampling	Field Oversite:	Diprima
DTW:	9' Final Depth: 16'		

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Reddish Brown SILT, some relict rock structure	60%		No soil samples collected
5	5'-7' clayey SILT	80%		
▽	9' sandy SILT; WET	90%		
10				
	14'-15' Gravel	50%		
15	15'-16' Grey SILT; DRY			
	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-38

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	Diprima/King
DTW:	12'	Final Depth:	33'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt			Solvent odor in boring
	Reddish Brown to Brown clayey SILT - moist	75%		Dry silt from 23' to refusal.
5	Grading to Lt Gray to Gray SILT- moist	60%		Boring was sealed w/hydrated bentonite
10	Saturated @ 12'	100%		
15	Becoming Dry @ 18'	95%		
20	21'-23' wet 23'-27' dry	75%		
25	27'-28.5' wet	100%		
	28.5'-33' Reddish-brown dry dense SILT	100%		
30	Refusal @ 33'			
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-39

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	Diprima/King
DTW:	15'	Final Depth:	33.5'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt			Solvent odor in boring
	Reddish-Brown clayey SILT	50%		Dry silt from 24.3' to refusal. Still dry at refusal.>9' thick
5	Lt Gray SAND - moist	50%		Boring was sealed w/hydrated bentonite
	Brown to Dark Gray clayey SILT - moist			
10	Lt Gray clayey SILT moist	100%		
15 ▽	Lt. Gray SAND - wet @16'	70%		
	Reddish-Brown SILT - moist			
20	24.3'-28' dry	100%		
25	28'-29' moist/wet	100%		
30	29'-33.5' Reddish-brown dry dense SILT	100%		
	Refusal @ 33.5'			
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-40

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	12.5'	Final Depth:	25'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Reddish-Brown clayey SILT - moist	50%		Dry silt from 17' to 25' (termination).
				Boring was sealed w/hydrated bentonite
5				Picture # 1&2
	Reddish Brown sandy SILT - moist	90%		
	Becoming Red to Gray			
10				
	Becoming Red to Tan	70%		
▽	Saturated @ 12.5'			
	Lt. Gray clayey SILT - wet			
15				
	Reddish Brown SILT - wet	70%		
	Reddish-Brown SILT - dry, dense			
20				
	17' to 25' dry	90%		
25				
	Boring Terminated @ 25'			
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-42

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	10'	Final Depth:	25'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Reddish-Brown clayey SILT - dry	60%		Dry silt from 17' to 25' (termination).
	Becoming moist			Boring was sealed w/hydrated bentonite
5		90%		Picture # 4
10 ▽	Reddish-Brown sandy SILT- wet, saturated @11'	90%		
15	Reddish-Brown clayey SILT - moist	70%		
	Reddish-Brown SILT - dry, dense	70%		
20				
25	Boring Terminated @ 25'			
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-45

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/8/13
Location:	2211 Savoy Dr	Date Completed:	11/8/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	9'	Final Depth:	25'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Brown to Tan sandy SILT - moist	90%		Dry silt from 17' to 25' (termination).
				Boring was sealed w/hydrated bentonite
5	Becoming Tan to Gray	70%		Picture # 10&11
▽				
10	Reddish-Tan to Gray SAND, course - wet, saturated @ 9'	80%		
	Reddish-Brown clayey SILT - moist	80%		
15				
	Red to Tan to Brown SILT - dry, dense	100%		
20				
25	Boring Terminated @ 25'			
30				
35				
40				

Soil Boring Log

WOODARD &CURRAN

Boring ID: SB-46

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/8/13
Location:	2211 Savoy Dr	Date Completed:	11/8/13
Driller:	Geo Lab	Field Oversight:	King
DTW:	7'	Final Depth:	25'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Top soil			No odor in boring
	Red to Brown sandy SILT - moist	50%		Dry silt from 18' to 25' (termination).
				Boring was sealed w/hydrated bentonite
5				Picture # 8 & 9
▽	Gray-Black SAND, course w/pebbles - wet, saturated @ 7'	50%		
10		50%		
15	Reddish-Tan clayey SILT - moist	70%		
	Red to Tan SILT - dry, dense			
20		90%		
	Reddish-Black saprolite - dry			
25	Boring Terminated @ 25'			
30				
35				
40				

Soil Boring Log

Boring ID: FMW-15

Project: Fashion Care
Project No: 8096
Location: South of dry cleaner
Driller: Atlas Geo Sampling
DTW: 5' Final Depth: 16'

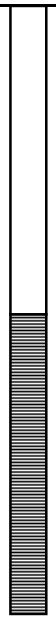
Elevation:
Date started: 6/15/10
Date Completed: 6/15/10
Field Oversite: V Owens/L LeMay

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Grey silty CLAY, moist	70%		No soil samples collected
	WT~5' ▽			
5	Grey SAND, wet slight silt	70%		
10	Hard dry clayey SILT, striations (Saprolite)	100%		
15	Same	100%		
	Boring Terminated @ 16' BLS			
20				
25				
30				
35				
40				

Soil Boring Log

Boring ID: **MW-18D (well aborted)**

Project:	Fashion Care Cleaners	Elevation:	
Project No:	226203	Date started:	4/22/2014
Location:	2211 Savoy Drive, Chamblee, GA	Date Completed:	4/22/2014
Driller:	GeoLab	Field Oversight:	LJD
DTW:	7 ft. bgs	Final Depth:	33.5 ft. bgs

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	PID (ppm)	Well Completion	Remarks
0	Reddish-brown Silt, moist	20%	No samples collected	No readings collected	 Type III well installation aborted	On 4/22/14 suspected bedrock on refusal at 33.5ft. bgs using solid-stem augers. Borehole temporarily abandoned using bentonite on 4/22/14. 4/24/14 returned with hollow-stem augers. Re-drilled borehole to refusal at 33.5 ft. bgs, used split-spoon to collect small sample of bedrock to confirm type of refusal, tremie-grouted boring with Portland-bentonite slurry to ensure good borehole seal.
5		100%				
	Reddish-brown silty, fine to coarse SAND Wet					
10	13 ft. color change to medium gray	100%				
15	Reddish-brown SILT, dense, moist	80%				
20	19.5 ft. Silt becoming dry, very dense	Solid stem augers required beginning at 20 ft. bgs due to DPT refusal. Down-pressure and cuttings used to identify lithology/lithologic changes.				
25						
30	Bedrock at 33.5 ft. immediately below SILT Mica-Garnet Greenschist					
35	Boring Terminated at 33.5 ft. bgs - Refusal					

Soil Boring Log

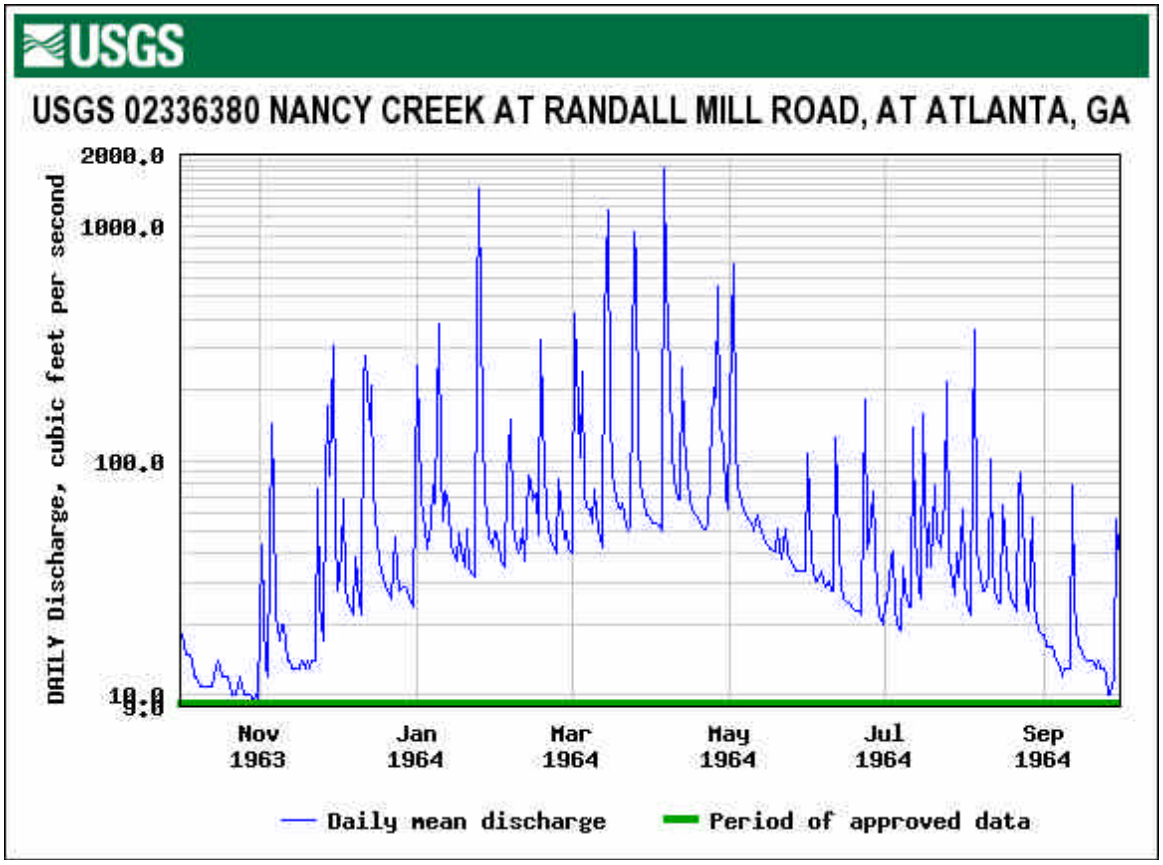
WOODARD &CURRAN

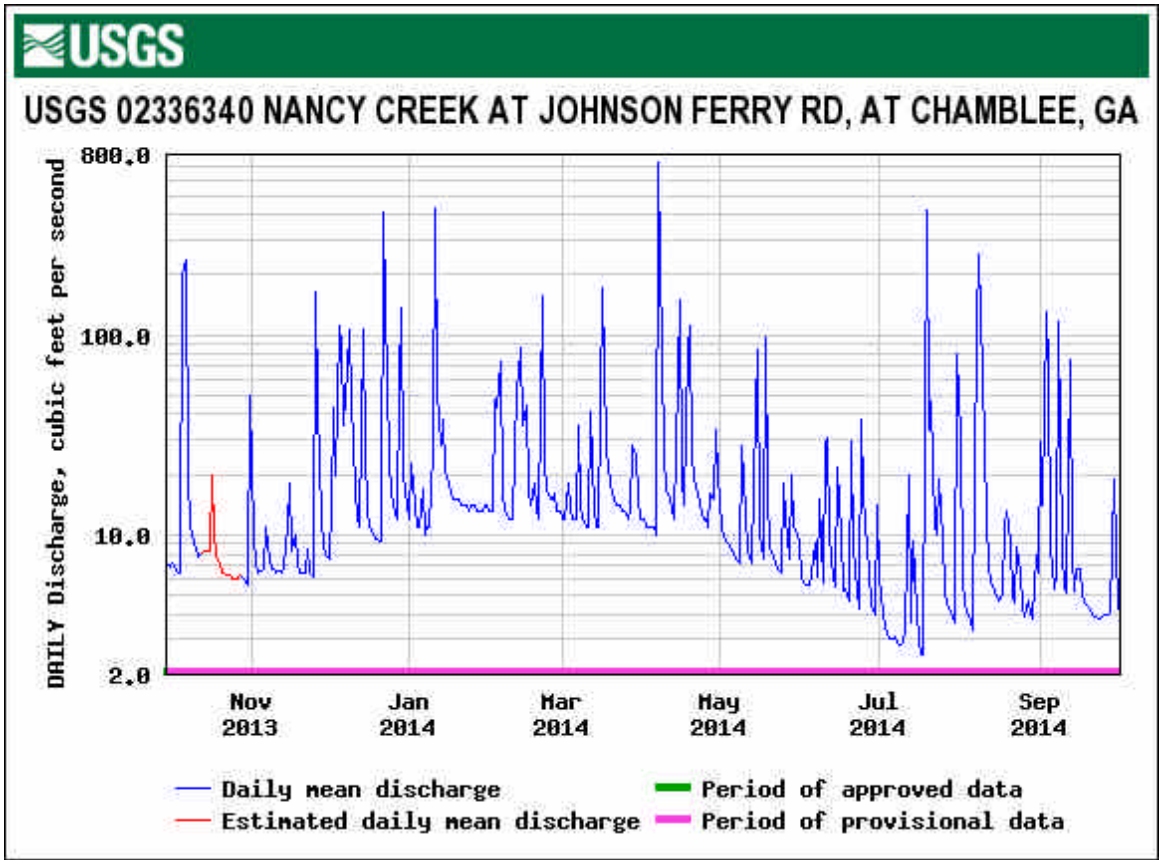
Boring ID: SB-37

Project:	Fashion Care	Elevation:	
Project No:	226203.00	Date started:	11/7/13
Location:	2211 Savoy Dr	Date Completed:	11/7/13
Driller:	Geo Lab	Field Oversight:	Diprima/King
DTW:	7.5'	Final Depth:	35'

Depth (feet bgs)	Soil Classification	% Recovery	Sample No.	Remarks
0	Asphalt			There is approx. 10' of dry silt at this location from 23'-33'
	Reddish Brown to tan silty CLAY - moist	65%		Boring was sealed w/hydrated bentonite
5		90%		
▽	Light gray SAND - saturated (7.5')			
	Brown to Dark grey silty CLAY to clayey SILT - moist			
10		100%		
15				
	Light Gray silty SAND - wet	80%		
	Reddish Brown to tan SILT- moist			
20	Becoming Dry @ 23'			
	Dense material	95%		
25		95%		
30		100%		
	Becoming moist @ 34'			
35	Boring Terminated @ 35'			
40				

APPENDIX C: NANCY CREEK FLOW GRAPHS FROM USGS STATIONS


USGS
USGS 02336380 NANCY CREEK AT RANDALL MILL ROAD, AT ATLANTA, GA
DAILY Discharge, cubic feet per second
2000.0
1000.0
100.0
10.0
9.0
Nov 1963
Jan 1964
Mar 1964
May 1964
Jul 1964
Sep 1964
Daily mean discharge
Period of approved data


USGS
USGS 02336340 NANCY CREEK AT JOHNSON FERRY RD, AT CHAMBLEE, GA
DAILY Discharge, cubic feet per second
800.0
100.0
10.0
2.0
Nov 2013
Jan 2014
Mar 2014
May 2014
Jul 2014
Sep 2014
Daily mean discharge
Estimated daily mean discharge
Period of approved data
Period of provisional data

APPENDIX D: SOIL FLUSHING CALCULATIONS

Soil Dissolution -

Depth of Unsat contamination (ft)	7					
Average Soil concentration (mg/kg)	7.53					
Assumed density (lbs/cubic foot)	100			Kv	1.5	ft/day
Mass contaminated Soil (lbs)	1,470,000	666,780	kg	porosity	0.2	unitless
Initial Contaminant Mass (mg)	5,017,521			gradient	1	ft/ft
Recharge Rate (in/year)	1.00	2.28E-04	ft/day	unsat depth	7	ft
Surface Area (sq.ft)	2100					
Flow per day (CFD)	0.48	13.58	L/day	v	7.5	ft/day
PCE Solubility (mg/L)	150					
Daily Dissolution (mg/D)	2,036			Mass Dissolution:	Total Days	Total Years
					2464	7

Year	Day	Mass Remaining	Conc. mg/L
0.003	1	5,015,485	75
0.005	2	5,013,448	74.97
0.008	3	5,011,412	74.94
0.011	4	5,009,375	74.91
0.014	5	5,007,339	74.88
0.016	6	5,005,302	74.85
0.019	7	5,003,266	74.82
0.022	8	5,001,229	74.79
0.025	9	4,999,193	74.76
0.027	10	4,997,156	74.73
0.030	11	4,995,120	74.70
0.033	12	4,993,084	74.67
0.036	13	4,991,047	74.64
0.038	14	4,989,011	74.61
0.041	15	4,986,974	74.58
0.044	16	4,984,938	74.55
0.047	17	4,982,901	74.52
0.049	18	4,980,865	74.49
0.052	19	4,978,828	74.46
0.055	20	4,976,792	74.43
0.058	21	4,974,755	74.40
0.060	22	4,972,719	74.37
0.063	23	4,970,682	74.34
0.066	24	4,968,646	74.31
0.068	25	4,966,609	74.28
0.071	26	4,964,573	74.25
0.074	27	4,962,536	74.22
0.077	28	4,960,500	74.19
0.079	29	4,958,463	74.16
0.082	30	4,956,427	74.13
0.085	31	4,954,390	74.10
0.088	32	4,952,354	74.07
0.090	33	4,950,317	74.04
0.093	34	4,948,281	74.01
0.096	35	4,946,244	73.98
0.099	36	4,944,208	73.95
0.101	37	4,942,171	73.92
0.104	38	4,940,135	73.89
0.107	39	4,938,099	73.86
0.110	40	4,936,062	73.83

	Year Post Remediation	Days Post Remediation	Conc. (mg/L)
0.03		0	75
	1	365	64
	2	730	53
	3	1095	42
	4	1460	31
	5	1825	20
	6	2190	9
	7	2555	1

Year	Day	Mass Remaining	Conc. mg/L
0.112	41	4,934,026	73.80
0.115	42	4,931,989	73.77
0.118	43	4,929,953	73.74
0.121	44	4,927,916	73.71
0.123	45	4,925,880	73.68
0.126	46	4,923,843	73.65
0.129	47	4,921,807	73.62
0.132	48	4,919,770	73.59
0.134	49	4,917,734	73.56
0.137	50	4,915,697	73.53
0.140	51	4,913,661	73.50
0.142	52	4,911,624	73.47
0.145	53	4,909,588	73.44
0.148	54	4,907,551	73.41
0.151	55	4,905,515	73.38
0.153	56	4,903,478	73.35
0.156	57	4,901,442	73.32
0.159	58	4,899,405	73.29
0.162	59	4,897,369	73.26
0.164	60	4,895,332	73.23
0.167	61	4,893,296	73.20
0.170	62	4,891,259	73.17
0.173	63	4,889,223	73.14
0.175	64	4,887,186	73.11
0.178	65	4,885,150	73.08
0.181	66	4,883,113	73.05
0.184	67	4,881,077	73.02
0.186	68	4,879,041	72.99
0.189	69	4,877,004	72.96
0.192	70	4,874,968	72.93
0.195	71	4,872,931	72.90
0.197	72	4,870,895	72.87
0.200	73	4,868,858	72.84
0.203	74	4,866,822	72.81
0.205	75	4,864,785	72.78
0.208	76	4,862,749	72.75
0.211	77	4,860,712	72.72
0.214	78	4,858,676	72.69
0.216	79	4,856,639	72.66
0.219	80	4,854,603	72.63
0.222	81	4,852,566	72.60
0.225	82	4,850,530	72.57
0.227	83	4,848,493	72.54
0.230	84	4,846,457	72.51
0.233	85	4,844,420	72.48
0.236	86	4,842,384	72.45
0.238	87	4,840,347	72.42
0.241	88	4,838,311	72.39
0.244	89	4,836,274	72.36
0.247	90	4,834,238	72.33
0.249	91	4,832,201	72.30
0.252	92	4,830,165	72.27

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
0.255	93	4,828,128	72.24
0.258	94	4,826,092	72.21
0.260	95	4,824,055	72.18
0.263	96	4,822,019	72.15
0.266	97	4,819,983	72.12
0.268	98	4,817,946	72.09
0.271	99	4,815,910	72.06
0.274	100	4,813,873	72.03
0.277	101	4,811,837	72.00
0.279	102	4,809,800	71.97
0.282	103	4,807,764	71.94
0.285	104	4,805,727	71.91
0.288	105	4,803,691	71.88
0.290	106	4,801,654	71.85
0.293	107	4,799,618	71.82
0.296	108	4,797,581	71.79
0.299	109	4,795,545	71.76
0.301	110	4,793,508	71.73
0.304	111	4,791,472	71.70
0.307	112	4,789,435	71.67
0.310	113	4,787,399	71.63
0.312	114	4,785,362	71.60
0.315	115	4,783,326	71.57
0.318	116	4,781,289	71.54
0.321	117	4,779,253	71.51
0.323	118	4,777,216	71.48
0.326	119	4,775,180	71.45
0.329	120	4,773,143	71.42
0.332	121	4,771,107	71.39
0.334	122	4,769,070	71.36
0.337	123	4,767,034	71.33
0.340	124	4,764,998	71.30
0.342	125	4,762,961	71.27
0.345	126	4,760,925	71.24
0.348	127	4,758,888	71.21
0.351	128	4,756,852	71.18
0.353	129	4,754,815	71.15
0.356	130	4,752,779	71.12
0.359	131	4,750,742	71.09
0.362	132	4,748,706	71.06
0.364	133	4,746,669	71.03
0.367	134	4,744,633	71.00
0.370	135	4,742,596	70.97
0.373	136	4,740,560	70.94
0.375	137	4,738,523	70.91
0.378	138	4,736,487	70.88
0.381	139	4,734,450	70.85
0.384	140	4,732,414	70.82
0.386	141	4,730,377	70.79
0.389	142	4,728,341	70.76
0.392	143	4,726,304	70.73
0.395	144	4,724,268	70.70

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
0.397	145	4,722,231	70.67
0.400	146	4,720,195	70.64
0.403	147	4,718,158	70.61
0.405	148	4,716,122	70.58
0.408	149	4,714,085	70.55
0.411	150	4,712,049	70.52
0.414	151	4,710,012	70.49
0.416	152	4,707,976	70.46
0.419	153	4,705,940	70.43
0.422	154	4,703,903	70.40
0.425	155	4,701,867	70.37
0.427	156	4,699,830	70.34
0.430	157	4,697,794	70.31
0.433	158	4,695,757	70.28
0.436	159	4,693,721	70.25
0.438	160	4,691,684	70.22
0.441	161	4,689,648	70.19
0.444	162	4,687,611	70.16
0.447	163	4,685,575	70.13
0.449	164	4,683,538	70.10
0.452	165	4,681,502	70.07
0.455	166	4,679,465	70.04
0.458	167	4,677,429	70.01
0.460	168	4,675,392	69.98
0.463	169	4,673,356	69.95
0.466	170	4,671,319	69.92
0.468	171	4,669,283	69.89
0.471	172	4,667,246	69.86
0.474	173	4,665,210	69.83
0.477	174	4,663,173	69.80
0.479	175	4,661,137	69.77
0.482	176	4,659,100	69.74
0.485	177	4,657,064	69.71
0.488	178	4,655,027	69.68
0.490	179	4,652,991	69.65
0.493	180	4,650,955	69.62
0.496	181	4,648,918	69.59
0.499	182	4,646,882	69.56
0.501	183	4,644,845	69.53
0.504	184	4,642,809	69.50
0.507	185	4,640,772	69.47
0.510	186	4,638,736	69.44
0.512	187	4,636,699	69.41
0.515	188	4,634,663	69.38
0.518	189	4,632,626	69.35
0.521	190	4,630,590	69.32
0.523	191	4,628,553	69.29
0.526	192	4,626,517	69.26
0.529	193	4,624,480	69.23
0.532	194	4,622,444	69.20
0.534	195	4,620,407	69.17
0.537	196	4,618,371	69.14

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
0.540	197	4,616,334	69.11
0.542	198	4,614,298	69.08
0.545	199	4,612,261	69.05
0.548	200	4,610,225	69.02
0.551	201	4,608,188	68.99
0.553	202	4,606,152	68.96
0.556	203	4,604,115	68.93
0.559	204	4,602,079	68.90
0.562	205	4,600,042	68.87
0.564	206	4,598,006	68.84
0.567	207	4,595,969	68.81
0.570	208	4,593,933	68.78
0.573	209	4,591,897	68.75
0.575	210	4,589,860	68.72
0.578	211	4,587,824	68.69
0.581	212	4,585,787	68.66
0.584	213	4,583,751	68.63
0.586	214	4,581,714	68.60
0.589	215	4,579,678	68.57
0.592	216	4,577,641	68.54
0.595	217	4,575,605	68.51
0.597	218	4,573,568	68.48
0.600	219	4,571,532	68.45
0.603	220	4,569,495	68.42
0.605	221	4,567,459	68.39
0.608	222	4,565,422	68.36
0.611	223	4,563,386	68.33
0.614	224	4,561,349	68.30
0.616	225	4,559,313	68.27
0.619	226	4,557,276	68.24
0.622	227	4,555,240	68.21
0.625	228	4,553,203	68.18
0.627	229	4,551,167	68.15
0.630	230	4,549,130	68.12
0.633	231	4,547,094	68.09
0.636	232	4,545,057	68.06
0.638	233	4,543,021	68.03
0.641	234	4,540,984	68.00
0.644	235	4,538,948	67.97
0.647	236	4,536,912	67.94
0.649	237	4,534,875	67.91
0.652	238	4,532,839	67.88
0.655	239	4,530,802	67.85
0.658	240	4,528,766	67.82
0.660	241	4,526,729	67.79
0.663	242	4,524,693	67.76
0.666	243	4,522,656	67.73
0.668	244	4,520,620	67.70
0.671	245	4,518,583	67.67
0.674	246	4,516,547	67.64
0.677	247	4,514,510	67.61
0.679	248	4,512,474	67.58

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
0.682	249	4,510,437	67.55
0.685	250	4,508,401	67.52
0.688	251	4,506,364	67.49
0.690	252	4,504,328	67.46
0.693	253	4,502,291	67.43
0.696	254	4,500,255	67.40
0.699	255	4,498,218	67.37
0.701	256	4,496,182	67.34
0.704	257	4,494,145	67.31
0.707	258	4,492,109	67.28
0.710	259	4,490,072	67.25
0.712	260	4,488,036	67.22
0.715	261	4,485,999	67.19
0.718	262	4,483,963	67.16
0.721	263	4,481,926	67.13
0.723	264	4,479,890	67.10
0.726	265	4,477,854	67.07
0.729	266	4,475,817	67.04
0.732	267	4,473,781	67.01
0.734	268	4,471,744	66.98
0.737	269	4,469,708	66.95
0.740	270	4,467,671	66.92
0.742	271	4,465,635	66.89
0.745	272	4,463,598	66.86
0.748	273	4,461,562	66.83
0.751	274	4,459,525	66.80
0.753	275	4,457,489	66.77
0.756	276	4,455,452	66.74
0.759	277	4,453,416	66.71
0.762	278	4,451,379	66.68
0.764	279	4,449,343	66.65
0.767	280	4,447,306	66.62
0.770	281	4,445,270	66.59
0.773	282	4,443,233	66.56
0.775	283	4,441,197	66.53
0.778	284	4,439,160	66.50
0.781	285	4,437,124	66.47
0.784	286	4,435,087	66.44
0.786	287	4,433,051	66.41
0.789	288	4,431,014	66.38
0.792	289	4,428,978	66.35
0.795	290	4,426,941	66.32
0.797	291	4,424,905	66.29
0.800	292	4,422,869	66.26
0.803	293	4,420,832	66.23
0.805	294	4,418,796	66.20
0.808	295	4,416,759	66.17
0.811	296	4,414,723	66.14
0.814	297	4,412,686	66.11
0.816	298	4,410,650	66.08
0.819	299	4,408,613	66.05
0.822	300	4,406,577	66.02

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
0.825	301	4,404,540	65.99
0.827	302	4,402,504	65.96
0.830	303	4,400,467	65.93
0.833	304	4,398,431	65.90
0.836	305	4,396,394	65.87
0.838	306	4,394,358	65.84
0.841	307	4,392,321	65.81
0.844	308	4,390,285	65.78
0.847	309	4,388,248	65.75
0.849	310	4,386,212	65.72
0.852	311	4,384,175	65.69
0.855	312	4,382,139	65.66
0.858	313	4,380,102	65.63
0.860	314	4,378,066	65.60
0.863	315	4,376,029	65.57
0.866	316	4,373,993	65.54
0.868	317	4,371,956	65.51
0.871	318	4,369,920	65.48
0.874	319	4,367,883	65.45
0.877	320	4,365,847	65.42
0.879	321	4,363,811	65.39
0.882	322	4,361,774	65.36
0.885	323	4,359,738	65.33
0.888	324	4,357,701	65.30
0.890	325	4,355,665	65.27
0.893	326	4,353,628	65.24
0.896	327	4,351,592	65.21
0.899	328	4,349,555	65.18
0.901	329	4,347,519	65.15
0.904	330	4,345,482	65.12
0.907	331	4,343,446	65.09
0.910	332	4,341,409	65.06
0.912	333	4,339,373	65.03
0.915	334	4,337,336	65.00
0.918	335	4,335,300	64.97
0.921	336	4,333,263	64.94
0.923	337	4,331,227	64.90
0.926	338	4,329,190	64.87
0.929	339	4,327,154	64.84
0.932	340	4,325,117	64.81
0.934	341	4,323,081	64.78
0.937	342	4,321,044	64.75
0.940	343	4,319,008	64.72
0.942	344	4,316,971	64.69
0.945	345	4,314,935	64.66
0.948	346	4,312,898	64.63
0.951	347	4,310,862	64.60
0.953	348	4,308,826	64.57
0.956	349	4,306,789	64.54
0.959	350	4,304,753	64.51
0.962	351	4,302,716	64.48
0.964	352	4,300,680	64.45

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
0.967	353	4,298,643	64.42
0.970	354	4,296,607	64.39
0.973	355	4,294,570	64.36
0.975	356	4,292,534	64.33
0.978	357	4,290,497	64.30
0.981	358	4,288,461	64.27
0.984	359	4,286,424	64.24
0.986	360	4,284,388	64.21
0.989	361	4,282,351	64.18
0.992	362	4,280,315	64.15
0.995	363	4,278,278	64.12
0.997	364	4,276,242	64.09
1.000	365	4,274,205	64.06
1.003	366	4,272,169	64.03
1.005	367	4,270,132	64.00
1.008	368	4,268,096	63.97
1.011	369	4,266,059	63.94
1.014	370	4,264,023	63.91
1.016	371	4,261,986	63.88
1.019	372	4,259,950	63.85
1.022	373	4,257,913	63.82
1.025	374	4,255,877	63.79
1.027	375	4,253,840	63.76
1.030	376	4,251,804	63.73
1.033	377	4,249,768	63.70
1.036	378	4,247,731	63.67
1.038	379	4,245,695	63.64
1.041	380	4,243,658	63.61
1.044	381	4,241,622	63.58
1.047	382	4,239,585	63.55
1.049	383	4,237,549	63.52
1.052	384	4,235,512	63.49
1.055	385	4,233,476	63.46
1.058	386	4,231,439	63.43
1.060	387	4,229,403	63.40
1.063	388	4,227,366	63.37
1.066	389	4,225,330	63.34
1.068	390	4,223,293	63.31
1.071	391	4,221,257	63.28
1.074	392	4,219,220	63.25
1.077	393	4,217,184	63.22
1.079	394	4,215,147	63.19
1.082	395	4,213,111	63.16
1.085	396	4,211,074	63.13
1.088	397	4,209,038	63.10
1.090	398	4,207,001	63.07
1.093	399	4,204,965	63.04
1.096	400	4,202,928	63.01
1.099	401	4,200,892	62.98
1.101	402	4,198,855	62.95
1.104	403	4,196,819	62.92
1.107	404	4,194,783	62.89

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
1.110	405	4,192,746	62.86
1.112	406	4,190,710	62.83
1.115	407	4,188,673	62.80
1.118	408	4,186,637	62.77
1.121	409	4,184,600	62.74
1.123	410	4,182,564	62.71
1.126	411	4,180,527	62.68
1.129	412	4,178,491	62.65
1.132	413	4,176,454	62.62
1.134	414	4,174,418	62.59
1.137	415	4,172,381	62.56
1.140	416	4,170,345	62.53
1.142	417	4,168,308	62.50
1.145	418	4,166,272	62.47
1.148	419	4,164,235	62.44
1.151	420	4,162,199	62.41
1.153	421	4,160,162	62.38
1.156	422	4,158,126	62.35
1.159	423	4,156,089	62.32
1.162	424	4,154,053	62.29
1.164	425	4,152,016	62.26
1.167	426	4,149,980	62.23
1.170	427	4,147,943	62.20
1.173	428	4,145,907	62.17
1.175	429	4,143,870	62.14
1.178	430	4,141,834	62.11
1.181	431	4,139,797	62.08
1.184	432	4,137,761	62.05
1.186	433	4,135,725	62.02
1.189	434	4,133,688	61.99
1.192	435	4,131,652	61.96
1.195	436	4,129,615	61.93
1.197	437	4,127,579	61.90
1.200	438	4,125,542	61.87
1.203	439	4,123,506	61.84
1.205	440	4,121,469	61.81
1.208	441	4,119,433	61.78
1.211	442	4,117,396	61.75
1.214	443	4,115,360	61.72
1.216	444	4,113,323	61.69
1.219	445	4,111,287	61.66
1.222	446	4,109,250	61.63
1.225	447	4,107,214	61.60
1.227	448	4,105,177	61.57
1.230	449	4,103,141	61.54
1.233	450	4,101,104	61.51
1.236	451	4,099,068	61.48
1.238	452	4,097,031	61.45
1.241	453	4,094,995	61.42
1.244	454	4,092,958	61.39
1.247	455	4,090,922	61.36
1.249	456	4,088,885	61.33

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
1.252	457	4,086,849	61.30
1.255	458	4,084,812	61.27
1.258	459	4,082,776	61.24
1.260	460	4,080,739	61.21
1.263	461	4,078,703	61.18
1.266	462	4,076,667	61.15
1.268	463	4,074,630	61.12
1.271	464	4,072,594	61.09
1.274	465	4,070,557	61.06
1.277	466	4,068,521	61.03
1.279	467	4,066,484	61.00
1.282	468	4,064,448	60.97
1.285	469	4,062,411	60.94
1.288	470	4,060,375	60.91
1.290	471	4,058,338	60.88
1.293	472	4,056,302	60.85
1.296	473	4,054,265	60.82
1.299	474	4,052,229	60.79
1.301	475	4,050,192	60.76
1.304	476	4,048,156	60.73
1.307	477	4,046,119	60.70
1.310	478	4,044,083	60.67
1.312	479	4,042,046	60.64
1.315	480	4,040,010	60.61
1.318	481	4,037,973	60.58
1.321	482	4,035,937	60.55
1.323	483	4,033,900	60.52
1.326	484	4,031,864	60.49
1.329	485	4,029,827	60.46
1.332	486	4,027,791	60.43
1.334	487	4,025,754	60.40
1.337	488	4,023,718	60.37
1.340	489	4,021,682	60.34
1.342	490	4,019,645	60.31
1.345	491	4,017,609	60.28
1.348	492	4,015,572	60.25
1.351	493	4,013,536	60.22
1.353	494	4,011,499	60.19
1.356	495	4,009,463	60.16
1.359	496	4,007,426	60.13
1.362	497	4,005,390	60.10
1.364	498	4,003,353	60.07
1.367	499	4,001,317	60.04
1.370	500	3,999,280	60.01
1.373	501	3,997,244	59.98
1.375	502	3,995,207	59.95
1.378	503	3,993,171	59.92
1.381	504	3,991,134	59.89
1.384	505	3,989,098	59.86
1.386	506	3,987,061	59.83
1.389	507	3,985,025	59.80
1.392	508	3,982,988	59.77

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
1.395	509	3,980,952	59.74
1.397	510	3,978,915	59.71
1.400	511	3,976,879	59.68
1.403	512	3,974,842	59.65
1.405	513	3,972,806	59.62
1.408	514	3,970,769	59.59
1.411	515	3,968,733	59.56
1.414	516	3,966,696	59.53
1.416	517	3,964,660	59.50
1.419	518	3,962,624	59.47
1.422	519	3,960,587	59.44
1.425	520	3,958,551	59.41
1.427	521	3,956,514	59.38
1.430	522	3,954,478	59.35
1.433	523	3,952,441	59.32
1.436	524	3,950,405	59.29
1.438	525	3,948,368	59.26
1.441	526	3,946,332	59.23
1.444	527	3,944,295	59.20
1.447	528	3,942,259	59.17
1.449	529	3,940,222	59.14
1.452	530	3,938,186	59.11
1.455	531	3,936,149	59.08
1.458	532	3,934,113	59.05
1.460	533	3,932,076	59.02
1.463	534	3,930,040	58.99
1.466	535	3,928,003	58.96
1.468	536	3,925,967	58.93
1.471	537	3,923,930	58.90
1.474	538	3,921,894	58.87
1.477	539	3,919,857	58.84
1.479	540	3,917,821	58.81
1.482	541	3,915,784	58.78
1.485	542	3,913,748	58.75
1.488	543	3,911,711	58.72
1.490	544	3,909,675	58.69
1.493	545	3,907,639	58.66
1.496	546	3,905,602	58.63
1.499	547	3,903,566	58.60
1.501	548	3,901,529	58.57
1.504	549	3,899,493	58.54
1.507	550	3,897,456	58.51
1.510	551	3,895,420	58.48
1.512	552	3,893,383	58.45
1.515	553	3,891,347	58.42
1.518	554	3,889,310	58.39
1.521	555	3,887,274	58.36
1.523	556	3,885,237	58.33
1.526	557	3,883,201	58.30
1.529	558	3,881,164	58.27
1.532	559	3,879,128	58.24
1.534	560	3,877,091	58.21

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
1.537	561	3,875,055	58.17
1.540	562	3,873,018	58.14
1.542	563	3,870,982	58.11
1.545	564	3,868,945	58.08
1.548	565	3,866,909	58.05
1.551	566	3,864,872	58.02
1.553	567	3,862,836	57.99
1.556	568	3,860,799	57.96
1.559	569	3,858,763	57.93
1.562	570	3,856,726	57.90
1.564	571	3,854,690	57.87
1.567	572	3,852,653	57.84
1.570	573	3,850,617	57.81
1.573	574	3,848,581	57.78
1.575	575	3,846,544	57.75
1.578	576	3,844,508	57.72
1.581	577	3,842,471	57.69
1.584	578	3,840,435	57.66
1.586	579	3,838,398	57.63
1.589	580	3,836,362	57.60
1.592	581	3,834,325	57.57
1.595	582	3,832,289	57.54
1.597	583	3,830,252	57.51
1.600	584	3,828,216	57.48
1.603	585	3,826,179	57.45
1.605	586	3,824,143	57.42
1.608	587	3,822,106	57.39
1.611	588	3,820,070	57.36
1.614	589	3,818,033	57.33
1.616	590	3,815,997	57.30
1.619	591	3,813,960	57.27
1.622	592	3,811,924	57.24
1.625	593	3,809,887	57.21
1.627	594	3,807,851	57.18
1.630	595	3,805,814	57.15
1.633	596	3,803,778	57.12
1.636	597	3,801,741	57.09
1.638	598	3,799,705	57.06
1.641	599	3,797,668	57.03
1.644	600	3,795,632	57.00
1.647	601	3,793,596	56.97
1.649	602	3,791,559	56.94
1.652	603	3,789,523	56.91
1.655	604	3,787,486	56.88
1.658	605	3,785,450	56.85
1.660	606	3,783,413	56.82
1.663	607	3,781,377	56.79
1.666	608	3,779,340	56.76
1.668	609	3,777,304	56.73
1.671	610	3,775,267	56.70
1.674	611	3,773,231	56.67
1.677	612	3,771,194	56.64

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
1.679	613	3,769,158	56.61
1.682	614	3,767,121	56.58
1.685	615	3,765,085	56.55
1.688	616	3,763,048	56.52
1.690	617	3,761,012	56.49
1.693	618	3,758,975	56.46
1.696	619	3,756,939	56.43
1.699	620	3,754,902	56.40
1.701	621	3,752,866	56.37
1.704	622	3,750,829	56.34
1.707	623	3,748,793	56.31
1.710	624	3,746,756	56.28
1.712	625	3,744,720	56.25
1.715	626	3,742,683	56.22
1.718	627	3,740,647	56.19
1.721	628	3,738,610	56.16
1.723	629	3,736,574	56.13
1.726	630	3,734,538	56.10
1.729	631	3,732,501	56.07
1.732	632	3,730,465	56.04
1.734	633	3,728,428	56.01
1.737	634	3,726,392	55.98
1.740	635	3,724,355	55.95
1.742	636	3,722,319	55.92
1.745	637	3,720,282	55.89
1.748	638	3,718,246	55.86
1.751	639	3,716,209	55.83
1.753	640	3,714,173	55.80
1.756	641	3,712,136	55.77
1.759	642	3,710,100	55.74
1.762	643	3,708,063	55.71
1.764	644	3,706,027	55.68
1.767	645	3,703,990	55.65
1.770	646	3,701,954	55.62
1.773	647	3,699,917	55.59
1.775	648	3,697,881	55.56
1.778	649	3,695,844	55.53
1.781	650	3,693,808	55.50
1.784	651	3,691,771	55.47
1.786	652	3,689,735	55.44
1.789	653	3,687,698	55.41
1.792	654	3,685,662	55.38
1.795	655	3,683,625	55.35
1.797	656	3,681,589	55.32
1.800	657	3,679,553	55.29
1.803	658	3,677,516	55.26
1.805	659	3,675,480	55.23
1.808	660	3,673,443	55.20
1.811	661	3,671,407	55.17
1.814	662	3,669,370	55.14
1.816	663	3,667,334	55.11
1.819	664	3,665,297	55.08

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
1.822	665	3,663,261	55.05
1.825	666	3,661,224	55.02
1.827	667	3,659,188	54.99
1.830	668	3,657,151	54.96
1.833	669	3,655,115	54.93
1.836	670	3,653,078	54.90
1.838	671	3,651,042	54.87
1.841	672	3,649,005	54.84
1.844	673	3,646,969	54.81
1.847	674	3,644,932	54.78
1.849	675	3,642,896	54.75
1.852	676	3,640,859	54.72
1.855	677	3,638,823	54.69
1.858	678	3,636,786	54.66
1.860	679	3,634,750	54.63
1.863	680	3,632,713	54.60
1.866	681	3,630,677	54.57
1.868	682	3,628,640	54.54
1.871	683	3,626,604	54.51
1.874	684	3,624,567	54.48
1.877	685	3,622,531	54.45
1.879	686	3,620,495	54.42
1.882	687	3,618,458	54.39
1.885	688	3,616,422	54.36
1.888	689	3,614,385	54.33
1.890	690	3,612,349	54.30
1.893	691	3,610,312	54.27
1.896	692	3,608,276	54.24
1.899	693	3,606,239	54.21
1.901	694	3,604,203	54.18
1.904	695	3,602,166	54.15
1.907	696	3,600,130	54.12
1.910	697	3,598,093	54.09
1.912	698	3,596,057	54.06
1.915	699	3,594,020	54.03
1.918	700	3,591,984	54.00
1.921	701	3,589,947	53.97
1.923	702	3,587,911	53.94
1.926	703	3,585,874	53.91
1.929	704	3,583,838	53.88
1.932	705	3,581,801	53.85
1.934	706	3,579,765	53.82
1.937	707	3,577,728	53.79
1.940	708	3,575,692	53.76
1.942	709	3,573,655	53.73
1.945	710	3,571,619	53.70
1.948	711	3,569,582	53.67
1.951	712	3,567,546	53.64
1.953	713	3,565,510	53.61
1.956	714	3,563,473	53.58
1.959	715	3,561,437	53.55
1.962	716	3,559,400	53.52

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
1.964	717	3,557,364	53.49
1.967	718	3,555,327	53.46
1.970	719	3,553,291	53.43
1.973	720	3,551,254	53.40
1.975	721	3,549,218	53.37
1.978	722	3,547,181	53.34
1.981	723	3,545,145	53.31
1.984	724	3,543,108	53.28
1.986	725	3,541,072	53.25
1.989	726	3,539,035	53.22
1.992	727	3,536,999	53.19
1.995	728	3,534,962	53.16
1.997	729	3,532,926	53.13
2.000	730	3,530,889	53.10
2.003	731	3,528,853	53.07
2.005	732	3,526,816	53.04
2.008	733	3,524,780	53.01
2.011	734	3,522,743	52.98
2.014	735	3,520,707	52.95
2.016	736	3,518,670	52.92
2.019	737	3,516,634	52.89
2.022	738	3,514,597	52.86
2.025	739	3,512,561	52.83
2.027	740	3,510,524	52.80
2.030	741	3,508,488	52.77
2.033	742	3,506,452	52.74
2.036	743	3,504,415	52.71
2.038	744	3,502,379	52.68
2.041	745	3,500,342	52.65
2.044	746	3,498,306	52.62
2.047	747	3,496,269	52.59
2.049	748	3,494,233	52.56
2.052	749	3,492,196	52.53
2.055	750	3,490,160	52.50
2.058	751	3,488,123	52.47
2.060	752	3,486,087	52.44
2.063	753	3,484,050	52.41
2.066	754	3,482,014	52.38
2.068	755	3,479,977	52.35
2.071	756	3,477,941	52.32
2.074	757	3,475,904	52.29
2.077	758	3,473,868	52.26
2.079	759	3,471,831	52.23
2.082	760	3,469,795	52.20
2.085	761	3,467,758	52.17
2.088	762	3,465,722	52.14
2.090	763	3,463,685	52.11
2.093	764	3,461,649	52.08
2.096	765	3,459,612	52.05
2.099	766	3,457,576	52.02
2.101	767	3,455,539	51.99
2.104	768	3,453,503	51.96

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
2.107	769	3,451,467	51.93
2.110	770	3,449,430	51.90
2.112	771	3,447,394	51.87
2.115	772	3,445,357	51.84
2.118	773	3,443,321	51.81
2.121	774	3,441,284	51.78
2.123	775	3,439,248	51.75
2.126	776	3,437,211	51.72
2.129	777	3,435,175	51.69
2.132	778	3,433,138	51.66
2.134	779	3,431,102	51.63
2.137	780	3,429,065	51.60
2.140	781	3,427,029	51.57
2.142	782	3,424,992	51.54
2.145	783	3,422,956	51.51
2.148	784	3,420,919	51.48
2.151	785	3,418,883	51.44
2.153	786	3,416,846	51.41
2.156	787	3,414,810	51.38
2.159	788	3,412,773	51.35
2.162	789	3,410,737	51.32
2.164	790	3,408,700	51.29
2.167	791	3,406,664	51.26
2.170	792	3,404,627	51.23
2.173	793	3,402,591	51.20
2.175	794	3,400,554	51.17
2.178	795	3,398,518	51.14
2.181	796	3,396,481	51.11
2.184	797	3,394,445	51.08
2.186	798	3,392,409	51.05
2.189	799	3,390,372	51.02
2.192	800	3,388,336	50.99
2.195	801	3,386,299	50.96
2.197	802	3,384,263	50.93
2.200	803	3,382,226	50.90
2.203	804	3,380,190	50.87
2.205	805	3,378,153	50.84
2.208	806	3,376,117	50.81
2.211	807	3,374,080	50.78
2.214	808	3,372,044	50.75
2.216	809	3,370,007	50.72
2.219	810	3,367,971	50.69
2.222	811	3,365,934	50.66
2.225	812	3,363,898	50.63
2.227	813	3,361,861	50.60
2.230	814	3,359,825	50.57
2.233	815	3,357,788	50.54
2.236	816	3,355,752	50.51
2.238	817	3,353,715	50.48
2.241	818	3,351,679	50.45
2.244	819	3,349,642	50.42
2.247	820	3,347,606	50.39

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
2.249	821	3,345,569	50.36
2.252	822	3,343,533	50.33
2.255	823	3,341,496	50.30
2.258	824	3,339,460	50.27
2.260	825	3,337,423	50.24
2.263	826	3,335,387	50.21
2.266	827	3,333,351	50.18
2.268	828	3,331,314	50.15
2.271	829	3,329,278	50.12
2.274	830	3,327,241	50.09
2.277	831	3,325,205	50.06
2.279	832	3,323,168	50.03
2.282	833	3,321,132	50.00
2.285	834	3,319,095	49.97
2.288	835	3,317,059	49.94
2.290	836	3,315,022	49.91
2.293	837	3,312,986	49.88
2.296	838	3,310,949	49.85
2.299	839	3,308,913	49.82
2.301	840	3,306,876	49.79
2.304	841	3,304,840	49.76
2.307	842	3,302,803	49.73
2.310	843	3,300,767	49.70
2.312	844	3,298,730	49.67
2.315	845	3,296,694	49.64
2.318	846	3,294,657	49.61
2.321	847	3,292,621	49.58
2.323	848	3,290,584	49.55
2.326	849	3,288,548	49.52
2.329	850	3,286,511	49.49
2.332	851	3,284,475	49.46
2.334	852	3,282,438	49.43
2.337	853	3,280,402	49.40
2.340	854	3,278,366	49.37
2.342	855	3,276,329	49.34
2.345	856	3,274,293	49.31
2.348	857	3,272,256	49.28
2.351	858	3,270,220	49.25
2.353	859	3,268,183	49.22
2.356	860	3,266,147	49.19
2.359	861	3,264,110	49.16
2.362	862	3,262,074	49.13
2.364	863	3,260,037	49.10
2.367	864	3,258,001	49.07
2.370	865	3,255,964	49.04
2.373	866	3,253,928	49.01
2.375	867	3,251,891	48.98
2.378	868	3,249,855	48.95
2.381	869	3,247,818	48.92
2.384	870	3,245,782	48.89
2.386	871	3,243,745	48.86
2.389	872	3,241,709	48.83

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
2.392	873	3,239,672	48.80
2.395	874	3,237,636	48.77
2.397	875	3,235,599	48.74
2.400	876	3,233,563	48.71
2.403	877	3,231,526	48.68
2.405	878	3,229,490	48.65
2.408	879	3,227,453	48.62
2.411	880	3,225,417	48.59
2.414	881	3,223,380	48.56
2.416	882	3,221,344	48.53
2.419	883	3,219,308	48.50
2.422	884	3,217,271	48.47
2.425	885	3,215,235	48.44
2.427	886	3,213,198	48.41
2.430	887	3,211,162	48.38
2.433	888	3,209,125	48.35
2.436	889	3,207,089	48.32
2.438	890	3,205,052	48.29
2.441	891	3,203,016	48.26
2.444	892	3,200,979	48.23
2.447	893	3,198,943	48.20
2.449	894	3,196,906	48.17
2.452	895	3,194,870	48.14
2.455	896	3,192,833	48.11
2.458	897	3,190,797	48.08
2.460	898	3,188,760	48.05
2.463	899	3,186,724	48.02
2.466	900	3,184,687	47.99
2.468	901	3,182,651	47.96
2.471	902	3,180,614	47.93
2.474	903	3,178,578	47.90
2.477	904	3,176,541	47.87
2.479	905	3,174,505	47.84
2.482	906	3,172,468	47.81
2.485	907	3,170,432	47.78
2.488	908	3,168,395	47.75
2.490	909	3,166,359	47.72
2.493	910	3,164,323	47.69
2.496	911	3,162,286	47.66
2.499	912	3,160,250	47.63
2.501	913	3,158,213	47.60
2.504	914	3,156,177	47.57
2.507	915	3,154,140	47.54
2.510	916	3,152,104	47.51
2.512	917	3,150,067	47.48
2.515	918	3,148,031	47.45
2.518	919	3,145,994	47.42
2.521	920	3,143,958	47.39
2.523	921	3,141,921	47.36
2.526	922	3,139,885	47.33
2.529	923	3,137,848	47.30
2.532	924	3,135,812	47.27

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
2.534	925	3,133,775	47.24
2.537	926	3,131,739	47.21
2.540	927	3,129,702	47.18
2.542	928	3,127,666	47.15
2.545	929	3,125,629	47.12
2.548	930	3,123,593	47.09
2.551	931	3,121,556	47.06
2.553	932	3,119,520	47.03
2.556	933	3,117,483	47.00
2.559	934	3,115,447	46.97
2.562	935	3,113,410	46.94
2.564	936	3,111,374	46.91
2.567	937	3,109,337	46.88
2.570	938	3,107,301	46.85
2.573	939	3,105,265	46.82
2.575	940	3,103,228	46.79
2.578	941	3,101,192	46.76
2.581	942	3,099,155	46.73
2.584	943	3,097,119	46.70
2.586	944	3,095,082	46.67
2.589	945	3,093,046	46.64
2.592	946	3,091,009	46.61
2.595	947	3,088,973	46.58
2.597	948	3,086,936	46.55
2.600	949	3,084,900	46.52
2.603	950	3,082,863	46.49
2.605	951	3,080,827	46.46
2.608	952	3,078,790	46.43
2.611	953	3,076,754	46.40
2.614	954	3,074,717	46.37
2.616	955	3,072,681	46.34
2.619	956	3,070,644	46.31
2.622	957	3,068,608	46.28
2.625	958	3,066,571	46.25
2.627	959	3,064,535	46.22
2.630	960	3,062,498	46.19
2.633	961	3,060,462	46.16
2.636	962	3,058,425	46.13
2.638	963	3,056,389	46.10
2.641	964	3,054,352	46.07
2.644	965	3,052,316	46.04
2.647	966	3,050,280	46.01
2.649	967	3,048,243	45.98
2.652	968	3,046,207	45.95
2.655	969	3,044,170	45.92
2.658	970	3,042,134	45.89
2.660	971	3,040,097	45.86
2.663	972	3,038,061	45.83
2.666	973	3,036,024	45.80
2.668	974	3,033,988	45.77
2.671	975	3,031,951	45.74
2.674	976	3,029,915	45.71

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
2.677	977	3,027,878	45.68
2.679	978	3,025,842	45.65
2.682	979	3,023,805	45.62
2.685	980	3,021,769	45.59
2.688	981	3,019,732	45.56
2.690	982	3,017,696	45.53
2.693	983	3,015,659	45.50
2.696	984	3,013,623	45.47
2.699	985	3,011,586	45.44
2.701	986	3,009,550	45.41
2.704	987	3,007,513	45.38
2.707	988	3,005,477	45.35
2.710	989	3,003,440	45.32
2.712	990	3,001,404	45.29
2.715	991	2,999,367	45.26
2.718	992	2,997,331	45.23
2.721	993	2,995,294	45.20
2.723	994	2,993,258	45.17
2.726	995	2,991,222	45.14
2.729	996	2,989,185	45.11
2.732	997	2,987,149	45.08
2.734	998	2,985,112	45.05
2.737	999	2,983,076	45.02
2.740	1000	2,981,039	44.99
2.742	1001	2,979,003	44.96
2.745	1002	2,976,966	44.93
2.748	1003	2,974,930	44.90
2.751	1004	2,972,893	44.87
2.753	1005	2,970,857	44.84
2.756	1006	2,968,820	44.81
2.759	1007	2,966,784	44.78
2.762	1008	2,964,747	44.75
2.764	1009	2,962,711	44.71
2.767	1010	2,960,674	44.68
2.770	1011	2,958,638	44.65
2.773	1012	2,956,601	44.62
2.775	1013	2,954,565	44.59
2.778	1014	2,952,528	44.56
2.781	1015	2,950,492	44.53
2.784	1016	2,948,455	44.50
2.786	1017	2,946,419	44.47
2.789	1018	2,944,382	44.44
2.792	1019	2,942,346	44.41
2.795	1020	2,940,309	44.38
2.797	1021	2,938,273	44.35
2.800	1022	2,936,237	44.32
2.803	1023	2,934,200	44.29
2.805	1024	2,932,164	44.26
2.808	1025	2,930,127	44.23
2.811	1026	2,928,091	44.20
2.814	1027	2,926,054	44.17
2.816	1028	2,924,018	44.14

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
2.819	1029	2,921,981	44.11
2.822	1030	2,919,945	44.08
2.825	1031	2,917,908	44.05
2.827	1032	2,915,872	44.02
2.830	1033	2,913,835	43.99
2.833	1034	2,911,799	43.96
2.836	1035	2,909,762	43.93
2.838	1036	2,907,726	43.90
2.841	1037	2,905,689	43.87
2.844	1038	2,903,653	43.84
2.847	1039	2,901,616	43.81
2.849	1040	2,899,580	43.78
2.852	1041	2,897,543	43.75
2.855	1042	2,895,507	43.72
2.858	1043	2,893,470	43.69
2.860	1044	2,891,434	43.66
2.863	1045	2,889,397	43.63
2.866	1046	2,887,361	43.60
2.868	1047	2,885,324	43.57
2.871	1048	2,883,288	43.54
2.874	1049	2,881,251	43.51
2.877	1050	2,879,215	43.48
2.879	1051	2,877,179	43.45
2.882	1052	2,875,142	43.42
2.885	1053	2,873,106	43.39
2.888	1054	2,871,069	43.36
2.890	1055	2,869,033	43.33
2.893	1056	2,866,996	43.30
2.896	1057	2,864,960	43.27
2.899	1058	2,862,923	43.24
2.901	1059	2,860,887	43.21
2.904	1060	2,858,850	43.18
2.907	1061	2,856,814	43.15
2.910	1062	2,854,777	43.12
2.912	1063	2,852,741	43.09
2.915	1064	2,850,704	43.06
2.918	1065	2,848,668	43.03
2.921	1066	2,846,631	43.00
2.923	1067	2,844,595	42.97
2.926	1068	2,842,558	42.94
2.929	1069	2,840,522	42.91
2.932	1070	2,838,485	42.88
2.934	1071	2,836,449	42.85
2.937	1072	2,834,412	42.82
2.940	1073	2,832,376	42.79
2.942	1074	2,830,339	42.76
2.945	1075	2,828,303	42.73
2.948	1076	2,826,266	42.70
2.951	1077	2,824,230	42.67
2.953	1078	2,822,194	42.64
2.956	1079	2,820,157	42.61
2.959	1080	2,818,121	42.58

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
2.962	1081	2,816,084	42.55
2.964	1082	2,814,048	42.52
2.967	1083	2,812,011	42.49
2.970	1084	2,809,975	42.46
2.973	1085	2,807,938	42.43
2.975	1086	2,805,902	42.40
2.978	1087	2,803,865	42.37
2.981	1088	2,801,829	42.34
2.984	1089	2,799,792	42.31
2.986	1090	2,797,756	42.28
2.989	1091	2,795,719	42.25
2.992	1092	2,793,683	42.22
2.995	1093	2,791,646	42.19
2.997	1094	2,789,610	42.16
3.000	1095	2,787,573	42.13
3.003	1096	2,785,537	42.10
3.005	1097	2,783,500	42.07
3.008	1098	2,781,464	42.04
3.011	1099	2,779,427	42.01
3.014	1100	2,777,391	41.98
3.016	1101	2,775,354	41.95
3.019	1102	2,773,318	41.92
3.022	1103	2,771,281	41.89
3.025	1104	2,769,245	41.86
3.027	1105	2,767,208	41.83
3.030	1106	2,765,172	41.80
3.033	1107	2,763,136	41.77
3.036	1108	2,761,099	41.74
3.038	1109	2,759,063	41.71
3.041	1110	2,757,026	41.68
3.044	1111	2,754,990	41.65
3.047	1112	2,752,953	41.62
3.049	1113	2,750,917	41.59
3.052	1114	2,748,880	41.56
3.055	1115	2,746,844	41.53
3.058	1116	2,744,807	41.50
3.060	1117	2,742,771	41.47
3.063	1118	2,740,734	41.44
3.066	1119	2,738,698	41.41
3.068	1120	2,736,661	41.38
3.071	1121	2,734,625	41.35
3.074	1122	2,732,588	41.32
3.077	1123	2,730,552	41.29
3.079	1124	2,728,515	41.26
3.082	1125	2,726,479	41.23
3.085	1126	2,724,442	41.20
3.088	1127	2,722,406	41.17
3.090	1128	2,720,369	41.14
3.093	1129	2,718,333	41.11
3.096	1130	2,716,296	41.08
3.099	1131	2,714,260	41.05
3.101	1132	2,712,223	41.02

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
3.104	1133	2,710,187	40.99
3.107	1134	2,708,151	40.96
3.110	1135	2,706,114	40.93
3.112	1136	2,704,078	40.90
3.115	1137	2,702,041	40.87
3.118	1138	2,700,005	40.84
3.121	1139	2,697,968	40.81
3.123	1140	2,695,932	40.78
3.126	1141	2,693,895	40.75
3.129	1142	2,691,859	40.72
3.132	1143	2,689,822	40.69
3.134	1144	2,687,786	40.66
3.137	1145	2,685,749	40.63
3.140	1146	2,683,713	40.60
3.142	1147	2,681,676	40.57
3.145	1148	2,679,640	40.54
3.148	1149	2,677,603	40.51
3.151	1150	2,675,567	40.48
3.153	1151	2,673,530	40.45
3.156	1152	2,671,494	40.42
3.159	1153	2,669,457	40.39
3.162	1154	2,667,421	40.36
3.164	1155	2,665,384	40.33
3.167	1156	2,663,348	40.30
3.170	1157	2,661,311	40.27
3.173	1158	2,659,275	40.24
3.175	1159	2,657,238	40.21
3.178	1160	2,655,202	40.18
3.181	1161	2,653,165	40.15
3.184	1162	2,651,129	40.12
3.186	1163	2,649,093	40.09
3.189	1164	2,647,056	40.06
3.192	1165	2,645,020	40.03
3.195	1166	2,642,983	40.00
3.197	1167	2,640,947	39.97
3.200	1168	2,638,910	39.94
3.203	1169	2,636,874	39.91
3.205	1170	2,634,837	39.88
3.208	1171	2,632,801	39.85
3.211	1172	2,630,764	39.82
3.214	1173	2,628,728	39.79
3.216	1174	2,626,691	39.76
3.219	1175	2,624,655	39.73
3.222	1176	2,622,618	39.70
3.225	1177	2,620,582	39.67
3.227	1178	2,618,545	39.64
3.230	1179	2,616,509	39.61
3.233	1180	2,614,472	39.58
3.236	1181	2,612,436	39.55
3.238	1182	2,610,399	39.52
3.241	1183	2,608,363	39.49
3.244	1184	2,606,326	39.46

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
3.247	1185	2,604,290	39.43
3.249	1186	2,602,253	39.40
3.252	1187	2,600,217	39.37
3.255	1188	2,598,180	39.34
3.258	1189	2,596,144	39.31
3.260	1190	2,594,107	39.28
3.263	1191	2,592,071	39.25
3.266	1192	2,590,035	39.22
3.268	1193	2,587,998	39.19
3.271	1194	2,585,962	39.16
3.274	1195	2,583,925	39.13
3.277	1196	2,581,889	39.10
3.279	1197	2,579,852	39.07
3.282	1198	2,577,816	39.04
3.285	1199	2,575,779	39.01
3.288	1200	2,573,743	38.98
3.290	1201	2,571,706	38.95
3.293	1202	2,569,670	38.92
3.296	1203	2,567,633	38.89
3.299	1204	2,565,597	38.86
3.301	1205	2,563,560	38.83
3.304	1206	2,561,524	38.80
3.307	1207	2,559,487	38.77
3.310	1208	2,557,451	38.74
3.312	1209	2,555,414	38.71
3.315	1210	2,553,378	38.68
3.318	1211	2,551,341	38.65
3.321	1212	2,549,305	38.62
3.323	1213	2,547,268	38.59
3.326	1214	2,545,232	38.56
3.329	1215	2,543,195	38.53
3.332	1216	2,541,159	38.50
3.334	1217	2,539,122	38.47
3.337	1218	2,537,086	38.44
3.340	1219	2,535,050	38.41
3.342	1220	2,533,013	38.38
3.345	1221	2,530,977	38.35
3.348	1222	2,528,940	38.32
3.351	1223	2,526,904	38.29
3.353	1224	2,524,867	38.26
3.356	1225	2,522,831	38.23
3.359	1226	2,520,794	38.20
3.362	1227	2,518,758	38.17
3.364	1228	2,516,721	38.14
3.367	1229	2,514,685	38.11
3.370	1230	2,512,648	38.08
3.373	1231	2,510,612	38.05
3.375	1232	2,508,575	38.02
3.378	1233	2,506,539	37.98
3.381	1234	2,504,502	37.95
3.384	1235	2,502,466	37.92
3.386	1236	2,500,429	37.89

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
3.389	1237	2,498,393	37.86
3.392	1238	2,496,356	37.83
3.395	1239	2,494,320	37.80
3.397	1240	2,492,283	37.77
3.400	1241	2,490,247	37.74
3.403	1242	2,488,210	37.71
3.405	1243	2,486,174	37.68
3.408	1244	2,484,137	37.65
3.411	1245	2,482,101	37.62
3.414	1246	2,480,064	37.59
3.416	1247	2,478,028	37.56
3.419	1248	2,475,992	37.53
3.422	1249	2,473,955	37.50
3.425	1250	2,471,919	37.47
3.427	1251	2,469,882	37.44
3.430	1252	2,467,846	37.41
3.433	1253	2,465,809	37.38
3.436	1254	2,463,773	37.35
3.438	1255	2,461,736	37.32
3.441	1256	2,459,700	37.29
3.444	1257	2,457,663	37.26
3.447	1258	2,455,627	37.23
3.449	1259	2,453,590	37.20
3.452	1260	2,451,554	37.17
3.455	1261	2,449,517	37.14
3.458	1262	2,447,481	37.11
3.460	1263	2,445,444	37.08
3.463	1264	2,443,408	37.05
3.466	1265	2,441,371	37.02
3.468	1266	2,439,335	36.99
3.471	1267	2,437,298	36.96
3.474	1268	2,435,262	36.93
3.477	1269	2,433,225	36.90
3.479	1270	2,431,189	36.87
3.482	1271	2,429,152	36.84
3.485	1272	2,427,116	36.81
3.488	1273	2,425,079	36.78
3.490	1274	2,423,043	36.75
3.493	1275	2,421,007	36.72
3.496	1276	2,418,970	36.69
3.499	1277	2,416,934	36.66
3.501	1278	2,414,897	36.63
3.504	1279	2,412,861	36.60
3.507	1280	2,410,824	36.57
3.510	1281	2,408,788	36.54
3.512	1282	2,406,751	36.51
3.515	1283	2,404,715	36.48
3.518	1284	2,402,678	36.45
3.521	1285	2,400,642	36.42
3.523	1286	2,398,605	36.39
3.526	1287	2,396,569	36.36
3.529	1288	2,394,532	36.33

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
3.532	1289	2,392,496	36.30
3.534	1290	2,390,459	36.27
3.537	1291	2,388,423	36.24
3.540	1292	2,386,386	36.21
3.542	1293	2,384,350	36.18
3.545	1294	2,382,313	36.15
3.548	1295	2,380,277	36.12
3.551	1296	2,378,240	36.09
3.553	1297	2,376,204	36.06
3.556	1298	2,374,167	36.03
3.559	1299	2,372,131	36.00
3.562	1300	2,370,094	35.97
3.564	1301	2,368,058	35.94
3.567	1302	2,366,021	35.91
3.570	1303	2,363,985	35.88
3.573	1304	2,361,949	35.85
3.575	1305	2,359,912	35.82
3.578	1306	2,357,876	35.79
3.581	1307	2,355,839	35.76
3.584	1308	2,353,803	35.73
3.586	1309	2,351,766	35.70
3.589	1310	2,349,730	35.67
3.592	1311	2,347,693	35.64
3.595	1312	2,345,657	35.61
3.597	1313	2,343,620	35.58
3.600	1314	2,341,584	35.55
3.603	1315	2,339,547	35.52
3.605	1316	2,337,511	35.49
3.608	1317	2,335,474	35.46
3.611	1318	2,333,438	35.43
3.614	1319	2,331,401	35.40
3.616	1320	2,329,365	35.37
3.619	1321	2,327,328	35.34
3.622	1322	2,325,292	35.31
3.625	1323	2,323,255	35.28
3.627	1324	2,321,219	35.25
3.630	1325	2,319,182	35.22
3.633	1326	2,317,146	35.19
3.636	1327	2,315,109	35.16
3.638	1328	2,313,073	35.13
3.641	1329	2,311,036	35.10
3.644	1330	2,309,000	35.07
3.647	1331	2,306,964	35.04
3.649	1332	2,304,927	35.01
3.652	1333	2,302,891	34.98
3.655	1334	2,300,854	34.95
3.658	1335	2,298,818	34.92
3.660	1336	2,296,781	34.89
3.663	1337	2,294,745	34.86
3.666	1338	2,292,708	34.83
3.668	1339	2,290,672	34.80
3.671	1340	2,288,635	34.77

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
3.674	1341	2,286,599	34.74
3.677	1342	2,284,562	34.71
3.679	1343	2,282,526	34.68
3.682	1344	2,280,489	34.65
3.685	1345	2,278,453	34.62
3.688	1346	2,276,416	34.59
3.690	1347	2,274,380	34.56
3.693	1348	2,272,343	34.53
3.696	1349	2,270,307	34.50
3.699	1350	2,268,270	34.47
3.701	1351	2,266,234	34.44
3.704	1352	2,264,197	34.41
3.707	1353	2,262,161	34.38
3.710	1354	2,260,124	34.35
3.712	1355	2,258,088	34.32
3.715	1356	2,256,051	34.29
3.718	1357	2,254,015	34.26
3.721	1358	2,251,978	34.23
3.723	1359	2,249,942	34.20
3.726	1360	2,247,906	34.17
3.729	1361	2,245,869	34.14
3.732	1362	2,243,833	34.11
3.734	1363	2,241,796	34.08
3.737	1364	2,239,760	34.05
3.740	1365	2,237,723	34.02
3.742	1366	2,235,687	33.99
3.745	1367	2,233,650	33.96
3.748	1368	2,231,614	33.93
3.751	1369	2,229,577	33.90
3.753	1370	2,227,541	33.87
3.756	1371	2,225,504	33.84
3.759	1372	2,223,468	33.81
3.762	1373	2,221,431	33.78
3.764	1374	2,219,395	33.75
3.767	1375	2,217,358	33.72
3.770	1376	2,215,322	33.69
3.773	1377	2,213,285	33.66
3.775	1378	2,211,249	33.63
3.778	1379	2,209,212	33.60
3.781	1380	2,207,176	33.57
3.784	1381	2,205,139	33.54
3.786	1382	2,203,103	33.51
3.789	1383	2,201,066	33.48
3.792	1384	2,199,030	33.45
3.795	1385	2,196,993	33.42
3.797	1386	2,194,957	33.39
3.800	1387	2,192,921	33.36
3.803	1388	2,190,884	33.33
3.805	1389	2,188,848	33.30
3.808	1390	2,186,811	33.27
3.811	1391	2,184,775	33.24
3.814	1392	2,182,738	33.21

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
3.816	1393	2,180,702	33.18
3.819	1394	2,178,665	33.15
3.822	1395	2,176,629	33.12
3.825	1396	2,174,592	33.09
3.827	1397	2,172,556	33.06
3.830	1398	2,170,519	33.03
3.833	1399	2,168,483	33.00
3.836	1400	2,166,446	32.97
3.838	1401	2,164,410	32.94
3.841	1402	2,162,373	32.91
3.844	1403	2,160,337	32.88
3.847	1404	2,158,300	32.85
3.849	1405	2,156,264	32.82
3.852	1406	2,154,227	32.79
3.855	1407	2,152,191	32.76
3.858	1408	2,150,154	32.73
3.860	1409	2,148,118	32.70
3.863	1410	2,146,081	32.67
3.866	1411	2,144,045	32.64
3.868	1412	2,142,008	32.61
3.871	1413	2,139,972	32.58
3.874	1414	2,137,935	32.55
3.877	1415	2,135,899	32.52
3.879	1416	2,133,863	32.49
3.882	1417	2,131,826	32.46
3.885	1418	2,129,790	32.43
3.888	1419	2,127,753	32.40
3.890	1420	2,125,717	32.37
3.893	1421	2,123,680	32.34
3.896	1422	2,121,644	32.31
3.899	1423	2,119,607	32.28
3.901	1424	2,117,571	32.25
3.904	1425	2,115,534	32.22
3.907	1426	2,113,498	32.19
3.910	1427	2,111,461	32.16
3.912	1428	2,109,425	32.13
3.915	1429	2,107,388	32.10
3.918	1430	2,105,352	32.07
3.921	1431	2,103,315	32.04
3.923	1432	2,101,279	32.01
3.926	1433	2,099,242	31.98
3.929	1434	2,097,206	31.95
3.932	1435	2,095,169	31.92
3.934	1436	2,093,133	31.89
3.937	1437	2,091,096	31.86
3.940	1438	2,089,060	31.83
3.942	1439	2,087,023	31.80
3.945	1440	2,084,987	31.77
3.948	1441	2,082,950	31.74
3.951	1442	2,080,914	31.71
3.953	1443	2,078,878	31.68
3.956	1444	2,076,841	31.65

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
3.959	1445	2,074,805	31.62
3.962	1446	2,072,768	31.59
3.964	1447	2,070,732	31.56
3.967	1448	2,068,695	31.53
3.970	1449	2,066,659	31.50
3.973	1450	2,064,622	31.47
3.975	1451	2,062,586	31.44
3.978	1452	2,060,549	31.41
3.981	1453	2,058,513	31.38
3.984	1454	2,056,476	31.35
3.986	1455	2,054,440	31.32
3.989	1456	2,052,403	31.29
3.992	1457	2,050,367	31.25
3.995	1458	2,048,330	31.22
3.997	1459	2,046,294	31.19
4.000	1460	2,044,257	31.16
4.003	1461	2,042,221	31.13
4.005	1462	2,040,184	31.10
4.008	1463	2,038,148	31.07
4.011	1464	2,036,111	31.04
4.014	1465	2,034,075	31.01
4.016	1466	2,032,038	30.98
4.019	1467	2,030,002	30.95
4.022	1468	2,027,965	30.92
4.025	1469	2,025,929	30.89
4.027	1470	2,023,892	30.86
4.030	1471	2,021,856	30.83
4.033	1472	2,019,820	30.80
4.036	1473	2,017,783	30.77
4.038	1474	2,015,747	30.74
4.041	1475	2,013,710	30.71
4.044	1476	2,011,674	30.68
4.047	1477	2,009,637	30.65
4.049	1478	2,007,601	30.62
4.052	1479	2,005,564	30.59
4.055	1480	2,003,528	30.56
4.058	1481	2,001,491	30.53
4.060	1482	1,999,455	30.50
4.063	1483	1,997,418	30.47
4.066	1484	1,995,382	30.44
4.068	1485	1,993,345	30.41
4.071	1486	1,991,309	30.38
4.074	1487	1,989,272	30.35
4.077	1488	1,987,236	30.32
4.079	1489	1,985,199	30.29
4.082	1490	1,983,163	30.26
4.085	1491	1,981,126	30.23
4.088	1492	1,979,090	30.20
4.090	1493	1,977,053	30.17
4.093	1494	1,975,017	30.14
4.096	1495	1,972,980	30.11
4.099	1496	1,970,944	30.08

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
4.101	1497	1,968,907	30.05
4.104	1498	1,966,871	30.02
4.107	1499	1,964,835	29.99
4.110	1500	1,962,798	29.96
4.112	1501	1,960,762	29.93
4.115	1502	1,958,725	29.90
4.118	1503	1,956,689	29.87
4.121	1504	1,954,652	29.84
4.123	1505	1,952,616	29.81
4.126	1506	1,950,579	29.78
4.129	1507	1,948,543	29.75
4.132	1508	1,946,506	29.72
4.134	1509	1,944,470	29.69
4.137	1510	1,942,433	29.66
4.140	1511	1,940,397	29.63
4.142	1512	1,938,360	29.60
4.145	1513	1,936,324	29.57
4.148	1514	1,934,287	29.54
4.151	1515	1,932,251	29.51
4.153	1516	1,930,214	29.48
4.156	1517	1,928,178	29.45
4.159	1518	1,926,141	29.42
4.162	1519	1,924,105	29.39
4.164	1520	1,922,068	29.36
4.167	1521	1,920,032	29.33
4.170	1522	1,917,995	29.30
4.173	1523	1,915,959	29.27
4.175	1524	1,913,922	29.24
4.178	1525	1,911,886	29.21
4.181	1526	1,909,849	29.18
4.184	1527	1,907,813	29.15
4.186	1528	1,905,777	29.12
4.189	1529	1,903,740	29.09
4.192	1530	1,901,704	29.06
4.195	1531	1,899,667	29.03
4.197	1532	1,897,631	29.00
4.200	1533	1,895,594	28.97
4.203	1534	1,893,558	28.94
4.205	1535	1,891,521	28.91
4.208	1536	1,889,485	28.88
4.211	1537	1,887,448	28.85
4.214	1538	1,885,412	28.82
4.216	1539	1,883,375	28.79
4.219	1540	1,881,339	28.76
4.222	1541	1,879,302	28.73
4.225	1542	1,877,266	28.70
4.227	1543	1,875,229	28.67
4.230	1544	1,873,193	28.64
4.233	1545	1,871,156	28.61
4.236	1546	1,869,120	28.58
4.238	1547	1,867,083	28.55
4.241	1548	1,865,047	28.52

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
4.244	1549	1,863,010	28.49
4.247	1550	1,860,974	28.46
4.249	1551	1,858,937	28.43
4.252	1552	1,856,901	28.40
4.255	1553	1,854,864	28.37
4.258	1554	1,852,828	28.34
4.260	1555	1,850,791	28.31
4.263	1556	1,848,755	28.28
4.266	1557	1,846,719	28.25
4.268	1558	1,844,682	28.22
4.271	1559	1,842,646	28.19
4.274	1560	1,840,609	28.16
4.277	1561	1,838,573	28.13
4.279	1562	1,836,536	28.10
4.282	1563	1,834,500	28.07
4.285	1564	1,832,463	28.04
4.288	1565	1,830,427	28.01
4.290	1566	1,828,390	27.98
4.293	1567	1,826,354	27.95
4.296	1568	1,824,317	27.92
4.299	1569	1,822,281	27.89
4.301	1570	1,820,244	27.86
4.304	1571	1,818,208	27.83
4.307	1572	1,816,171	27.80
4.310	1573	1,814,135	27.77
4.312	1574	1,812,098	27.74
4.315	1575	1,810,062	27.71
4.318	1576	1,808,025	27.68
4.321	1577	1,805,989	27.65
4.323	1578	1,803,952	27.62
4.326	1579	1,801,916	27.59
4.329	1580	1,799,879	27.56
4.332	1581	1,797,843	27.53
4.334	1582	1,795,806	27.50
4.337	1583	1,793,770	27.47
4.340	1584	1,791,734	27.44
4.342	1585	1,789,697	27.41
4.345	1586	1,787,661	27.38
4.348	1587	1,785,624	27.35
4.351	1588	1,783,588	27.32
4.353	1589	1,781,551	27.29
4.356	1590	1,779,515	27.26
4.359	1591	1,777,478	27.23
4.362	1592	1,775,442	27.20
4.364	1593	1,773,405	27.17
4.367	1594	1,771,369	27.14
4.370	1595	1,769,332	27.11
4.373	1596	1,767,296	27.08
4.375	1597	1,765,259	27.05
4.378	1598	1,763,223	27.02
4.381	1599	1,761,186	26.99
4.384	1600	1,759,150	26.96

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
4.386	1601	1,757,113	26.93
4.389	1602	1,755,077	26.90
4.392	1603	1,753,040	26.87
4.395	1604	1,751,004	26.84
4.397	1605	1,748,967	26.81
4.400	1606	1,746,931	26.78
4.403	1607	1,744,894	26.75
4.405	1608	1,742,858	26.72
4.408	1609	1,740,821	26.69
4.411	1610	1,738,785	26.66
4.414	1611	1,736,748	26.63
4.416	1612	1,734,712	26.60
4.419	1613	1,732,676	26.57
4.422	1614	1,730,639	26.54
4.425	1615	1,728,603	26.51
4.427	1616	1,726,566	26.48
4.430	1617	1,724,530	26.45
4.433	1618	1,722,493	26.42
4.436	1619	1,720,457	26.39
4.438	1620	1,718,420	26.36
4.441	1621	1,716,384	26.33
4.444	1622	1,714,347	26.30
4.447	1623	1,712,311	26.27
4.449	1624	1,710,274	26.24
4.452	1625	1,708,238	26.21
4.455	1626	1,706,201	26.18
4.458	1627	1,704,165	26.15
4.460	1628	1,702,128	26.12
4.463	1629	1,700,092	26.09
4.466	1630	1,698,055	26.06
4.468	1631	1,696,019	26.03
4.471	1632	1,693,982	26.00
4.474	1633	1,691,946	25.97
4.477	1634	1,689,909	25.94
4.479	1635	1,687,873	25.91
4.482	1636	1,685,836	25.88
4.485	1637	1,683,800	25.85
4.488	1638	1,681,763	25.82
4.490	1639	1,679,727	25.79
4.493	1640	1,677,691	25.76
4.496	1641	1,675,654	25.73
4.499	1642	1,673,618	25.70
4.501	1643	1,671,581	25.67
4.504	1644	1,669,545	25.64
4.507	1645	1,667,508	25.61
4.510	1646	1,665,472	25.58
4.512	1647	1,663,435	25.55
4.515	1648	1,661,399	25.52
4.518	1649	1,659,362	25.49
4.521	1650	1,657,326	25.46
4.523	1651	1,655,289	25.43
4.526	1652	1,653,253	25.40

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
4.529	1653	1,651,216	25.37
4.532	1654	1,649,180	25.34
4.534	1655	1,647,143	25.31
4.537	1656	1,645,107	25.28
4.540	1657	1,643,070	25.25
4.542	1658	1,641,034	25.22
4.545	1659	1,638,997	25.19
4.548	1660	1,636,961	25.16
4.551	1661	1,634,924	25.13
4.553	1662	1,632,888	25.10
4.556	1663	1,630,851	25.07
4.559	1664	1,628,815	25.04
4.562	1665	1,626,778	25.01
4.564	1666	1,624,742	24.98
4.567	1667	1,622,705	24.95
4.570	1668	1,620,669	24.92
4.573	1669	1,618,633	24.89
4.575	1670	1,616,596	24.86
4.578	1671	1,614,560	24.83
4.581	1672	1,612,523	24.80
4.584	1673	1,610,487	24.77
4.586	1674	1,608,450	24.74
4.589	1675	1,606,414	24.71
4.592	1676	1,604,377	24.68
4.595	1677	1,602,341	24.65
4.597	1678	1,600,304	24.62
4.600	1679	1,598,268	24.59
4.603	1680	1,596,231	24.56
4.605	1681	1,594,195	24.52
4.608	1682	1,592,158	24.49
4.611	1683	1,590,122	24.46
4.614	1684	1,588,085	24.43
4.616	1685	1,586,049	24.40
4.619	1686	1,584,012	24.37
4.622	1687	1,581,976	24.34
4.625	1688	1,579,939	24.31
4.627	1689	1,577,903	24.28
4.630	1690	1,575,866	24.25
4.633	1691	1,573,830	24.22
4.636	1692	1,571,793	24.19
4.638	1693	1,569,757	24.16
4.641	1694	1,567,720	24.13
4.644	1695	1,565,684	24.10
4.647	1696	1,563,648	24.07
4.649	1697	1,561,611	24.04
4.652	1698	1,559,575	24.01
4.655	1699	1,557,538	23.98
4.658	1700	1,555,502	23.95
4.660	1701	1,553,465	23.92
4.663	1702	1,551,429	23.89
4.666	1703	1,549,392	23.86
4.668	1704	1,547,356	23.83

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
4.671	1705	1,545,319	23.80
4.674	1706	1,543,283	23.77
4.677	1707	1,541,246	23.74
4.679	1708	1,539,210	23.71
4.682	1709	1,537,173	23.68
4.685	1710	1,535,137	23.65
4.688	1711	1,533,100	23.62
4.690	1712	1,531,064	23.59
4.693	1713	1,529,027	23.56
4.696	1714	1,526,991	23.53
4.699	1715	1,524,954	23.50
4.701	1716	1,522,918	23.47
4.704	1717	1,520,881	23.44
4.707	1718	1,518,845	23.41
4.710	1719	1,516,808	23.38
4.712	1720	1,514,772	23.35
4.715	1721	1,512,735	23.32
4.718	1722	1,510,699	23.29
4.721	1723	1,508,662	23.26
4.723	1724	1,506,626	23.23
4.726	1725	1,504,590	23.20
4.729	1726	1,502,553	23.17
4.732	1727	1,500,517	23.14
4.734	1728	1,498,480	23.11
4.737	1729	1,496,444	23.08
4.740	1730	1,494,407	23.05
4.742	1731	1,492,371	23.02
4.745	1732	1,490,334	22.99
4.748	1733	1,488,298	22.96
4.751	1734	1,486,261	22.93
4.753	1735	1,484,225	22.90
4.756	1736	1,482,188	22.87
4.759	1737	1,480,152	22.84
4.762	1738	1,478,115	22.81
4.764	1739	1,476,079	22.78
4.767	1740	1,474,042	22.75
4.770	1741	1,472,006	22.72
4.773	1742	1,469,969	22.69
4.775	1743	1,467,933	22.66
4.778	1744	1,465,896	22.63
4.781	1745	1,463,860	22.60
4.784	1746	1,461,823	22.57
4.786	1747	1,459,787	22.54
4.789	1748	1,457,750	22.51
4.792	1749	1,455,714	22.48
4.795	1750	1,453,677	22.45
4.797	1751	1,451,641	22.42
4.800	1752	1,449,605	22.39
4.803	1753	1,447,568	22.36
4.805	1754	1,445,532	22.33
4.808	1755	1,443,495	22.30
4.811	1756	1,441,459	22.27

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
4.814	1757	1,439,422	22.24
4.816	1758	1,437,386	22.21
4.819	1759	1,435,349	22.18
4.822	1760	1,433,313	22.15
4.825	1761	1,431,276	22.12
4.827	1762	1,429,240	22.09
4.830	1763	1,427,203	22.06
4.833	1764	1,425,167	22.03
4.836	1765	1,423,130	22.00
4.838	1766	1,421,094	21.97
4.841	1767	1,419,057	21.94
4.844	1768	1,417,021	21.91
4.847	1769	1,414,984	21.88
4.849	1770	1,412,948	21.85
4.852	1771	1,410,911	21.82
4.855	1772	1,408,875	21.79
4.858	1773	1,406,838	21.76
4.860	1774	1,404,802	21.73
4.863	1775	1,402,765	21.70
4.866	1776	1,400,729	21.67
4.868	1777	1,398,692	21.64
4.871	1778	1,396,656	21.61
4.874	1779	1,394,619	21.58
4.877	1780	1,392,583	21.55
4.879	1781	1,390,547	21.52
4.882	1782	1,388,510	21.49
4.885	1783	1,386,474	21.46
4.888	1784	1,384,437	21.43
4.890	1785	1,382,401	21.40
4.893	1786	1,380,364	21.37
4.896	1787	1,378,328	21.34
4.899	1788	1,376,291	21.31
4.901	1789	1,374,255	21.28
4.904	1790	1,372,218	21.25
4.907	1791	1,370,182	21.22
4.910	1792	1,368,145	21.19
4.912	1793	1,366,109	21.16
4.915	1794	1,364,072	21.13
4.918	1795	1,362,036	21.10
4.921	1796	1,359,999	21.07
4.923	1797	1,357,963	21.04
4.926	1798	1,355,926	21.01
4.929	1799	1,353,890	20.98
4.932	1800	1,351,853	20.95
4.934	1801	1,349,817	20.92
4.937	1802	1,347,780	20.89
4.940	1803	1,345,744	20.86
4.942	1804	1,343,707	20.83
4.945	1805	1,341,671	20.80
4.948	1806	1,339,634	20.77
4.951	1807	1,337,598	20.74
4.953	1808	1,335,562	20.71

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
4.956	1809	1,333,525	20.68
4.959	1810	1,331,489	20.65
4.962	1811	1,329,452	20.62
4.964	1812	1,327,416	20.59
4.967	1813	1,325,379	20.56
4.970	1814	1,323,343	20.53
4.973	1815	1,321,306	20.50
4.975	1816	1,319,270	20.47
4.978	1817	1,317,233	20.44
4.981	1818	1,315,197	20.41
4.984	1819	1,313,160	20.38
4.986	1820	1,311,124	20.35
4.989	1821	1,309,087	20.32
4.992	1822	1,307,051	20.29
4.995	1823	1,305,014	20.26
4.997	1824	1,302,978	20.23
5.000	1825	1,300,941	20.20
5.003	1826	1,298,905	20.17
5.005	1827	1,296,868	20.14
5.008	1828	1,294,832	20.11
5.011	1829	1,292,795	20.08
5.014	1830	1,290,759	20.05
5.016	1831	1,288,722	20.02
5.019	1832	1,286,686	19.99
5.022	1833	1,284,649	19.96
5.025	1834	1,282,613	19.93
5.027	1835	1,280,576	19.90
5.030	1836	1,278,540	19.87
5.033	1837	1,276,504	19.84
5.036	1838	1,274,467	19.81
5.038	1839	1,272,431	19.78
5.041	1840	1,270,394	19.75
5.044	1841	1,268,358	19.72
5.047	1842	1,266,321	19.69
5.049	1843	1,264,285	19.66
5.052	1844	1,262,248	19.63
5.055	1845	1,260,212	19.60
5.058	1846	1,258,175	19.57
5.060	1847	1,256,139	19.54
5.063	1848	1,254,102	19.51
5.066	1849	1,252,066	19.48
5.068	1850	1,250,029	19.45
5.071	1851	1,247,993	19.42
5.074	1852	1,245,956	19.39
5.077	1853	1,243,920	19.36
5.079	1854	1,241,883	19.33
5.082	1855	1,239,847	19.30
5.085	1856	1,237,810	19.27
5.088	1857	1,235,774	19.24
5.090	1858	1,233,737	19.21
5.093	1859	1,231,701	19.18
5.096	1860	1,229,664	19.15

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
5.099	1861	1,227,628	19.12
5.101	1862	1,225,591	19.09
5.104	1863	1,223,555	19.06
5.107	1864	1,221,519	19.03
5.110	1865	1,219,482	19.00
5.112	1866	1,217,446	18.97
5.115	1867	1,215,409	18.94
5.118	1868	1,213,373	18.91
5.121	1869	1,211,336	18.88
5.123	1870	1,209,300	18.85
5.126	1871	1,207,263	18.82
5.129	1872	1,205,227	18.79
5.132	1873	1,203,190	18.76
5.134	1874	1,201,154	18.73
5.137	1875	1,199,117	18.70
5.140	1876	1,197,081	18.67
5.142	1877	1,195,044	18.64
5.145	1878	1,193,008	18.61
5.148	1879	1,190,971	18.58
5.151	1880	1,188,935	18.55
5.153	1881	1,186,898	18.52
5.156	1882	1,184,862	18.49
5.159	1883	1,182,825	18.46
5.162	1884	1,180,789	18.43
5.164	1885	1,178,752	18.40
5.167	1886	1,176,716	18.37
5.170	1887	1,174,679	18.34
5.173	1888	1,172,643	18.31
5.175	1889	1,170,606	18.28
5.178	1890	1,168,570	18.25
5.181	1891	1,166,533	18.22
5.184	1892	1,164,497	18.19
5.186	1893	1,162,461	18.16
5.189	1894	1,160,424	18.13
5.192	1895	1,158,388	18.10
5.195	1896	1,156,351	18.07
5.197	1897	1,154,315	18.04
5.200	1898	1,152,278	18.01
5.203	1899	1,150,242	17.98
5.205	1900	1,148,205	17.95
5.208	1901	1,146,169	17.92
5.211	1902	1,144,132	17.89
5.214	1903	1,142,096	17.86
5.216	1904	1,140,059	17.83
5.219	1905	1,138,023	17.79
5.222	1906	1,135,986	17.76
5.225	1907	1,133,950	17.73
5.227	1908	1,131,913	17.70
5.230	1909	1,129,877	17.67
5.233	1910	1,127,840	17.64
5.236	1911	1,125,804	17.61
5.238	1912	1,123,767	17.58

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
5.241	1913	1,121,731	17.55
5.244	1914	1,119,694	17.52
5.247	1915	1,117,658	17.49
5.249	1916	1,115,621	17.46
5.252	1917	1,113,585	17.43
5.255	1918	1,111,548	17.40
5.258	1919	1,109,512	17.37
5.260	1920	1,107,475	17.34
5.263	1921	1,105,439	17.31
5.266	1922	1,103,403	17.28
5.268	1923	1,101,366	17.25
5.271	1924	1,099,330	17.22
5.274	1925	1,097,293	17.19
5.277	1926	1,095,257	17.16
5.279	1927	1,093,220	17.13
5.282	1928	1,091,184	17.10
5.285	1929	1,089,147	17.07
5.288	1930	1,087,111	17.04
5.290	1931	1,085,074	17.01
5.293	1932	1,083,038	16.98
5.296	1933	1,081,001	16.95
5.299	1934	1,078,965	16.92
5.301	1935	1,076,928	16.89
5.304	1936	1,074,892	16.86
5.307	1937	1,072,855	16.83
5.310	1938	1,070,819	16.80
5.312	1939	1,068,782	16.77
5.315	1940	1,066,746	16.74
5.318	1941	1,064,709	16.71
5.321	1942	1,062,673	16.68
5.323	1943	1,060,636	16.65
5.326	1944	1,058,600	16.62
5.329	1945	1,056,563	16.59
5.332	1946	1,054,527	16.56
5.334	1947	1,052,490	16.53
5.337	1948	1,050,454	16.50
5.340	1949	1,048,418	16.47
5.342	1950	1,046,381	16.44
5.345	1951	1,044,345	16.41
5.348	1952	1,042,308	16.38
5.351	1953	1,040,272	16.35
5.353	1954	1,038,235	16.32
5.356	1955	1,036,199	16.29
5.359	1956	1,034,162	16.26
5.362	1957	1,032,126	16.23
5.364	1958	1,030,089	16.20
5.367	1959	1,028,053	16.17
5.370	1960	1,026,016	16.14
5.373	1961	1,023,980	16.11
5.375	1962	1,021,943	16.08
5.378	1963	1,019,907	16.05
5.381	1964	1,017,870	16.02

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
5.384	1965	1,015,834	15.99
5.386	1966	1,013,797	15.96
5.389	1967	1,011,761	15.93
5.392	1968	1,009,724	15.90
5.395	1969	1,007,688	15.87
5.397	1970	1,005,651	15.84
5.400	1971	1,003,615	15.81
5.403	1972	1,001,578	15.78
5.405	1973	999,542	15.75
5.408	1974	997,505	15.72
5.411	1975	995,469	15.69
5.414	1976	993,432	15.66
5.416	1977	991,396	15.63
5.419	1978	989,360	15.60
5.422	1979	987,323	15.57
5.425	1980	985,287	15.54
5.427	1981	983,250	15.51
5.430	1982	981,214	15.48
5.433	1983	979,177	15.45
5.436	1984	977,141	15.42
5.438	1985	975,104	15.39
5.441	1986	973,068	15.36
5.444	1987	971,031	15.33
5.447	1988	968,995	15.30
5.449	1989	966,958	15.27
5.452	1990	964,922	15.24
5.455	1991	962,885	15.21
5.458	1992	960,849	15.18
5.460	1993	958,812	15.15
5.463	1994	956,776	15.12
5.466	1995	954,739	15.09
5.468	1996	952,703	15.06
5.471	1997	950,666	15.03
5.474	1998	948,630	15.00
5.477	1999	946,593	14.97
5.479	2000	944,557	14.94
5.482	2001	942,520	14.91
5.485	2002	940,484	14.88
5.488	2003	938,447	14.85
5.490	2004	936,411	14.82
5.493	2005	934,375	14.79
5.496	2006	932,338	14.76
5.499	2007	930,302	14.73
5.501	2008	928,265	14.70
5.504	2009	926,229	14.67
5.507	2010	924,192	14.64
5.510	2011	922,156	14.61
5.512	2012	920,119	14.58
5.515	2013	918,083	14.55
5.518	2014	916,046	14.52
5.521	2015	914,010	14.49
5.523	2016	911,973	14.46

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
5.526	2017	909,937	14.43
5.529	2018	907,900	14.40
5.532	2019	905,864	14.37
5.534	2020	903,827	14.34
5.537	2021	901,791	14.31
5.540	2022	899,754	14.28
5.542	2023	897,718	14.25
5.545	2024	895,681	14.22
5.548	2025	893,645	14.19
5.551	2026	891,608	14.16
5.553	2027	889,572	14.13
5.556	2028	887,535	14.10
5.559	2029	885,499	14.07
5.562	2030	883,462	14.04
5.564	2031	881,426	14.01
5.567	2032	879,389	13.98
5.570	2033	877,353	13.95
5.573	2034	875,317	13.92
5.575	2035	873,280	13.89
5.578	2036	871,244	13.86
5.581	2037	869,207	13.83
5.584	2038	867,171	13.80
5.586	2039	865,134	13.77
5.589	2040	863,098	13.74
5.592	2041	861,061	13.71
5.595	2042	859,025	13.68
5.597	2043	856,988	13.65
5.600	2044	854,952	13.62
5.603	2045	852,915	13.59
5.605	2046	850,879	13.56
5.608	2047	848,842	13.53
5.611	2048	846,806	13.50
5.614	2049	844,769	13.47
5.616	2050	842,733	13.44
5.619	2051	840,696	13.41
5.622	2052	838,660	13.38
5.625	2053	836,623	13.35
5.627	2054	834,587	13.32
5.630	2055	832,550	13.29
5.633	2056	830,514	13.26
5.636	2057	828,477	13.23
5.638	2058	826,441	13.20
5.641	2059	824,404	13.17
5.644	2060	822,368	13.14
5.647	2061	820,332	13.11
5.649	2062	818,295	13.08
5.652	2063	816,259	13.05
5.655	2064	814,222	13.02
5.658	2065	812,186	12.99
5.660	2066	810,149	12.96
5.663	2067	808,113	12.93
5.666	2068	806,076	12.90

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
5.668	2069	804,040	12.87
5.671	2070	802,003	12.84
5.674	2071	799,967	12.81
5.677	2072	797,930	12.78
5.679	2073	795,894	12.75
5.682	2074	793,857	12.72
5.685	2075	791,821	12.69
5.688	2076	789,784	12.66
5.690	2077	787,748	12.63
5.693	2078	785,711	12.60
5.696	2079	783,675	12.57
5.699	2080	781,638	12.54
5.701	2081	779,602	12.51
5.704	2082	777,565	12.48
5.707	2083	775,529	12.45
5.710	2084	773,492	12.42
5.712	2085	771,456	12.39
5.715	2086	769,419	12.36
5.718	2087	767,383	12.33
5.721	2088	765,346	12.30
5.723	2089	763,310	12.27
5.726	2090	761,274	12.24
5.729	2091	759,237	12.21
5.732	2092	757,201	12.18
5.734	2093	755,164	12.15
5.737	2094	753,128	12.12
5.740	2095	751,091	12.09
5.742	2096	749,055	12.06
5.745	2097	747,018	12.03
5.748	2098	744,982	12.00
5.751	2099	742,945	11.97
5.753	2100	740,909	11.94
5.756	2101	738,872	11.91
5.759	2102	736,836	11.88
5.762	2103	734,799	11.85
5.764	2104	732,763	11.82
5.767	2105	730,726	11.79
5.770	2106	728,690	11.76
5.773	2107	726,653	11.73
5.775	2108	724,617	11.70
5.778	2109	722,580	11.67
5.781	2110	720,544	11.64
5.784	2111	718,507	11.61
5.786	2112	716,471	11.58
5.789	2113	714,434	11.55
5.792	2114	712,398	11.52
5.795	2115	710,361	11.49
5.797	2116	708,325	11.46
5.800	2117	706,289	11.43
5.803	2118	704,252	11.40
5.805	2119	702,216	11.37
5.808	2120	700,179	11.34

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
5.811	2121	698,143	11.31
5.814	2122	696,106	11.28
5.816	2123	694,070	11.25
5.819	2124	692,033	11.22
5.822	2125	689,997	11.19
5.825	2126	687,960	11.16
5.827	2127	685,924	11.13
5.830	2128	683,887	11.10
5.833	2129	681,851	11.06
5.836	2130	679,814	11.03
5.838	2131	677,778	11.00
5.841	2132	675,741	10.97
5.844	2133	673,705	10.94
5.847	2134	671,668	10.91
5.849	2135	669,632	10.88
5.852	2136	667,595	10.85
5.855	2137	665,559	10.82
5.858	2138	663,522	10.79
5.860	2139	661,486	10.76
5.863	2140	659,449	10.73
5.866	2141	657,413	10.70
5.868	2142	655,376	10.67
5.871	2143	653,340	10.64
5.874	2144	651,303	10.61
5.877	2145	649,267	10.58
5.879	2146	647,231	10.55
5.882	2147	645,194	10.52
5.885	2148	643,158	10.49
5.888	2149	641,121	10.46
5.890	2150	639,085	10.43
5.893	2151	637,048	10.40
5.896	2152	635,012	10.37
5.899	2153	632,975	10.34
5.901	2154	630,939	10.31
5.904	2155	628,902	10.28
5.907	2156	626,866	10.25
5.910	2157	624,829	10.22
5.912	2158	622,793	10.19
5.915	2159	620,756	10.16
5.918	2160	618,720	10.13
5.921	2161	616,683	10.10
5.923	2162	614,647	10.07
5.926	2163	612,610	10.04
5.929	2164	610,574	10.01
5.932	2165	608,537	9.98
5.934	2166	606,501	9.95
5.937	2167	604,464	9.92
5.940	2168	602,428	9.89
5.942	2169	600,391	9.86
5.945	2170	598,355	9.83
5.948	2171	596,318	9.80
5.951	2172	594,282	9.77

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
5.953	2173	592,246	9.74
5.956	2174	590,209	9.71
5.959	2175	588,173	9.68
5.962	2176	586,136	9.65
5.964	2177	584,100	9.62
5.967	2178	582,063	9.59
5.970	2179	580,027	9.56
5.973	2180	577,990	9.53
5.975	2181	575,954	9.50
5.978	2182	573,917	9.47
5.981	2183	571,881	9.44
5.984	2184	569,844	9.41
5.986	2185	567,808	9.38
5.989	2186	565,771	9.35
5.992	2187	563,735	9.32
5.995	2188	561,698	9.29
5.997	2189	559,662	9.26
6.000	2190	557,625	9.23
6.003	2191	555,589	9.20
6.005	2192	553,552	9.17
6.008	2193	551,516	9.14
6.011	2194	549,479	9.11
6.014	2195	547,443	9.08
6.016	2196	545,406	9.05
6.019	2197	543,370	9.02
6.022	2198	541,333	8.99
6.025	2199	539,297	8.96
6.027	2200	537,260	8.93
6.030	2201	535,224	8.90
6.033	2202	533,188	8.87
6.036	2203	531,151	8.84
6.038	2204	529,115	8.81
6.041	2205	527,078	8.78
6.044	2206	525,042	8.75
6.047	2207	523,005	8.72
6.049	2208	520,969	8.69
6.052	2209	518,932	8.66
6.055	2210	516,896	8.63
6.058	2211	514,859	8.60
6.060	2212	512,823	8.57
6.063	2213	510,786	8.54
6.066	2214	508,750	8.51
6.068	2215	506,713	8.48
6.071	2216	504,677	8.45
6.074	2217	502,640	8.42
6.077	2218	500,604	8.39
6.079	2219	498,567	8.36
6.082	2220	496,531	8.33
6.085	2221	494,494	8.30
6.088	2222	492,458	8.27
6.090	2223	490,421	8.24
6.093	2224	488,385	8.21

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
6.096	2225	486,348	8.18
6.099	2226	484,312	8.15
6.101	2227	482,275	8.12
6.104	2228	480,239	8.09
6.107	2229	478,203	8.06
6.110	2230	476,166	8.03
6.112	2231	474,130	8.00
6.115	2232	472,093	7.97
6.118	2233	470,057	7.94
6.121	2234	468,020	7.91
6.123	2235	465,984	7.88
6.126	2236	463,947	7.85
6.129	2237	461,911	7.82
6.132	2238	459,874	7.79
6.134	2239	457,838	7.76
6.137	2240	455,801	7.73
6.140	2241	453,765	7.70
6.142	2242	451,728	7.67
6.145	2243	449,692	7.64
6.148	2244	447,655	7.61
6.151	2245	445,619	7.58
6.153	2246	443,582	7.55
6.156	2247	441,546	7.52
6.159	2248	439,509	7.49
6.162	2249	437,473	7.46
6.164	2250	435,436	7.43
6.167	2251	433,400	7.40
6.170	2252	431,363	7.37
6.173	2253	429,327	7.34
6.175	2254	427,290	7.31
6.178	2255	425,254	7.28
6.181	2256	423,217	7.25
6.184	2257	421,181	7.22
6.186	2258	419,145	7.19
6.189	2259	417,108	7.16
6.192	2260	415,072	7.13
6.195	2261	413,035	7.10
6.197	2262	410,999	7.07
6.200	2263	408,962	7.04
6.203	2264	406,926	7.01
6.205	2265	404,889	6.98
6.208	2266	402,853	6.95
6.211	2267	400,816	6.92
6.214	2268	398,780	6.89
6.216	2269	396,743	6.86
6.219	2270	394,707	6.83
6.222	2271	392,670	6.80
6.225	2272	390,634	6.77
6.227	2273	388,597	6.74
6.230	2274	386,561	6.71
6.233	2275	384,524	6.68
6.236	2276	382,488	6.65

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
6.238	2277	380,451	6.62
6.241	2278	378,415	6.59
6.244	2279	376,378	6.56
6.247	2280	374,342	6.53
6.249	2281	372,305	6.50
6.252	2282	370,269	6.47
6.255	2283	368,232	6.44
6.258	2284	366,196	6.41
6.260	2285	364,159	6.38
6.263	2286	362,123	6.35
6.266	2287	360,087	6.32
6.268	2288	358,050	6.29
6.271	2289	356,014	6.26
6.274	2290	353,977	6.23
6.277	2291	351,941	6.20
6.279	2292	349,904	6.17
6.282	2293	347,868	6.14
6.285	2294	345,831	6.11
6.288	2295	343,795	6.08
6.290	2296	341,758	6.05
6.293	2297	339,722	6.02
6.296	2298	337,685	5.99
6.299	2299	335,649	5.96
6.301	2300	333,612	5.93
6.304	2301	331,576	5.90
6.307	2302	329,539	5.87
6.310	2303	327,503	5.84
6.312	2304	325,466	5.81
6.315	2305	323,430	5.78
6.318	2306	321,393	5.75
6.321	2307	319,357	5.72
6.323	2308	317,320	5.69
6.326	2309	315,284	5.66
6.329	2310	313,247	5.63
6.332	2311	311,211	5.60
6.334	2312	309,174	5.57
6.337	2313	307,138	5.54
6.340	2314	305,102	5.51
6.342	2315	303,065	5.48
6.345	2316	301,029	5.45
6.348	2317	298,992	5.42
6.351	2318	296,956	5.39
6.353	2319	294,919	5.36
6.356	2320	292,883	5.33
6.359	2321	290,846	5.30
6.362	2322	288,810	5.27
6.364	2323	286,773	5.24
6.367	2324	284,737	5.21
6.370	2325	282,700	5.18
6.373	2326	280,664	5.15
6.375	2327	278,627	5.12
6.378	2328	276,591	5.09

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
6.381	2329	274,554	5.06
6.384	2330	272,518	5.03
6.386	2331	270,481	5.00
6.389	2332	268,445	4.97
6.392	2333	266,408	4.94
6.395	2334	264,372	4.91
6.397	2335	262,335	4.88
6.400	2336	260,299	4.85
6.403	2337	258,262	4.82
6.405	2338	256,226	4.79
6.408	2339	254,189	4.76
6.411	2340	252,153	4.73
6.414	2341	250,116	4.70
6.416	2342	248,080	4.67
6.419	2343	246,044	4.64
6.422	2344	244,007	4.61
6.425	2345	241,971	4.58
6.427	2346	239,934	4.55
6.430	2347	237,898	4.52
6.433	2348	235,861	4.49
6.436	2349	233,825	4.46
6.438	2350	231,788	4.43
6.441	2351	229,752	4.40
6.444	2352	227,715	4.37
6.447	2353	225,679	4.33
6.449	2354	223,642	4.30
6.452	2355	221,606	4.27
6.455	2356	219,569	4.24
6.458	2357	217,533	4.21
6.460	2358	215,496	4.18
6.463	2359	213,460	4.15
6.466	2360	211,423	4.12
6.468	2361	209,387	4.09
6.471	2362	207,350	4.06
6.474	2363	205,314	4.03
6.477	2364	203,277	4.00
6.479	2365	201,241	3.97
6.482	2366	199,204	3.94
6.485	2367	197,168	3.91
6.488	2368	195,131	3.88
6.490	2369	193,095	3.85
6.493	2370	191,059	3.82
6.496	2371	189,022	3.79
6.499	2372	186,986	3.76
6.501	2373	184,949	3.73
6.504	2374	182,913	3.70
6.507	2375	180,876	3.67
6.510	2376	178,840	3.64
6.512	2377	176,803	3.61
6.515	2378	174,767	3.58
6.518	2379	172,730	3.55
6.521	2380	170,694	3.52

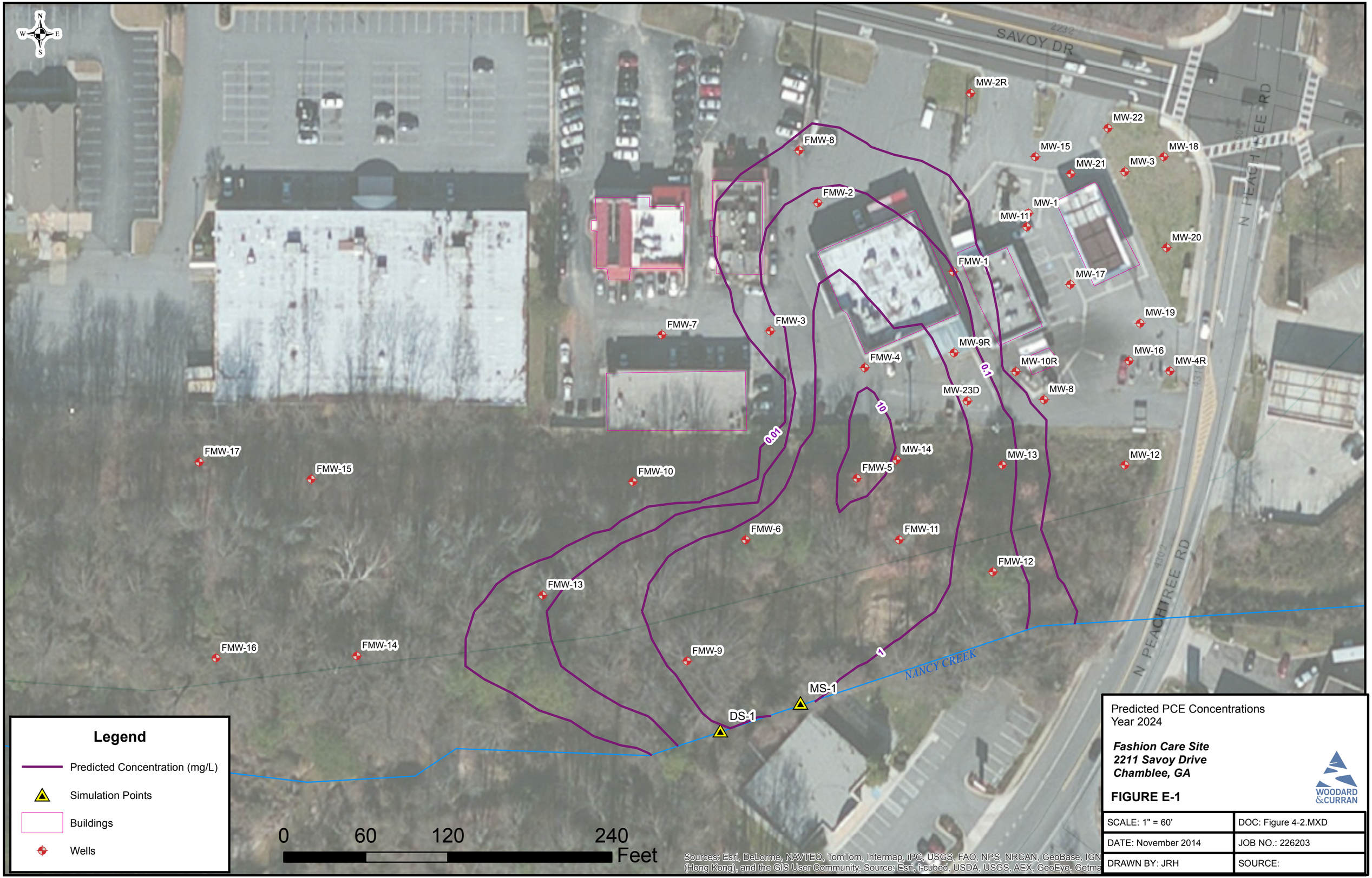
Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining	Conc. mg/L
6.523	2381	168,657	3.49
6.526	2382	166,621	3.46
6.529	2383	164,584	3.43
6.532	2384	162,548	3.40
6.534	2385	160,511	3.37
6.537	2386	158,475	3.34
6.540	2387	156,438	3.31
6.542	2388	154,402	3.28
6.545	2389	152,365	3.25
6.548	2390	150,329	3.22
6.551	2391	148,292	3.19
6.553	2392	146,256	3.16
6.556	2393	144,219	3.13
6.559	2394	142,183	3.10
6.562	2395	140,146	3.07
6.564	2396	138,110	3.04
6.567	2397	136,073	3.01
6.570	2398	134,037	2.98
6.573	2399	132,001	2.95
6.575	2400	129,964	2.92
6.578	2401	127,928	2.89
6.581	2402	125,891	2.86
6.584	2403	123,855	2.83
6.586	2404	121,818	2.80
6.589	2405	119,782	2.77
6.592	2406	117,745	2.74
6.595	2407	115,709	2.71
6.597	2408	113,672	2.68
6.600	2409	111,636	2.65
6.603	2410	109,599	2.62
6.605	2411	107,563	2.59
6.608	2412	105,526	2.56
6.611	2413	103,490	2.53
6.614	2414	101,453	2.50
6.616	2415	99,417	2.47
6.619	2416	97,380	2.44
6.622	2417	95,344	2.41
6.625	2418	93,307	2.38
6.627	2419	91,271	2.35
6.630	2420	89,234	2.32
6.633	2421	87,198	2.29
6.636	2422	85,161	2.26
6.638	2423	83,125	2.23
6.641	2424	81,088	2.20
6.644	2425	79,052	2.17
6.647	2426	77,016	2.14
6.649	2427	74,979	2.11
6.652	2428	72,943	2.08
6.655	2429	70,906	2.05
6.658	2430	68,870	2.02
6.660	2431	66,833	1.99
6.663	2432	64,797	1.96

Year Post Remediation	Days Post Remediation	Conc. (mg/L)

Year	Day	Mass Remaining		Conc. mg/L	Year Post Remediation	Days Post Remediation	Conc. (mg/L)
6.666	2433	62,760		1.93			
6.668	2434	60,724		1.90			
6.671	2435	58,687		1.87			
6.674	2436	56,651		1.84			
6.677	2437	54,614		1.81			
6.679	2438	52,578		1.78			
6.682	2439	50,541		1.75			
6.685	2440	48,505		1.72			
6.688	2441	46,468		1.69			
6.690	2442	44,432		1.66			
6.693	2443	42,395		1.63			
6.696	2444	40,359		1.60			
6.699	2445	38,322		1.57			
6.701	2446	36,286		1.54			
6.704	2447	34,249		1.51			
6.707	2448	32,213		1.48			
6.710	2449	30,176		1.45			
6.712	2450	28,140		1.42			
6.715	2451	26,103		1.39			
6.718	2452	24,067		1.36			
6.721	2453	22,030		1.33			
6.723	2454	19,994		1.30			
6.726	2455	17,958		1.27			
6.729	2456	15,921		1.24			
6.732	2457	13,885		1.21			
6.734	2458	11,848		1.18			
6.737	2459	9,812		1.15			
6.740	2460	7,775		1.12			
6.742	2461	5,739		1.09			
6.745	2462	3,702		1.06			
6.748	2463	1,666	1	1.03	0.03004466		
6.751	2464	(371)		1			

APPENDIX E: PLUME PREDICTION MAPS


N
W
E
S
SAVOY DR
N PEACHTREE RD
NANCY CREEK
MW-2R
MW-22
MW-15
MW-18
MW-21
MW-3
MW-1
MW-11
MW-20
MW-17
MW-19
MW-16
MW-4R
MW-10R
MW-8
MW-23D
MW-9R
MW-14
MW-13
MW-12
FMW-8
FMW-2
FMW-1
FMW-7
FMW-3
FMW-4
FMW-17
FMW-15
FMW-10
FMW-5
FMW-6
FMW-11
FMW-12
FMW-13
FMW-16
FMW-14
FMW-9
MS-1
DS-1
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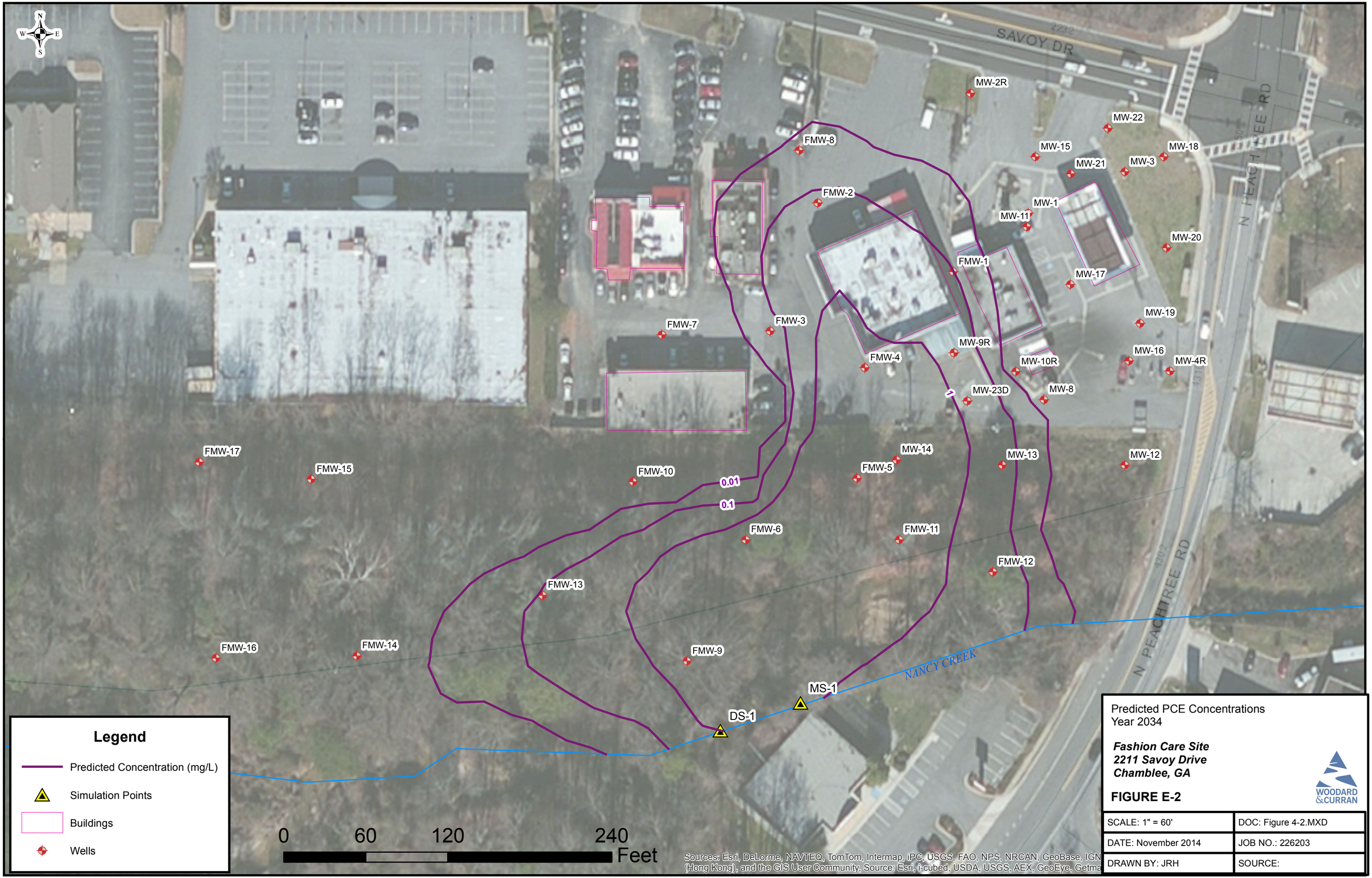
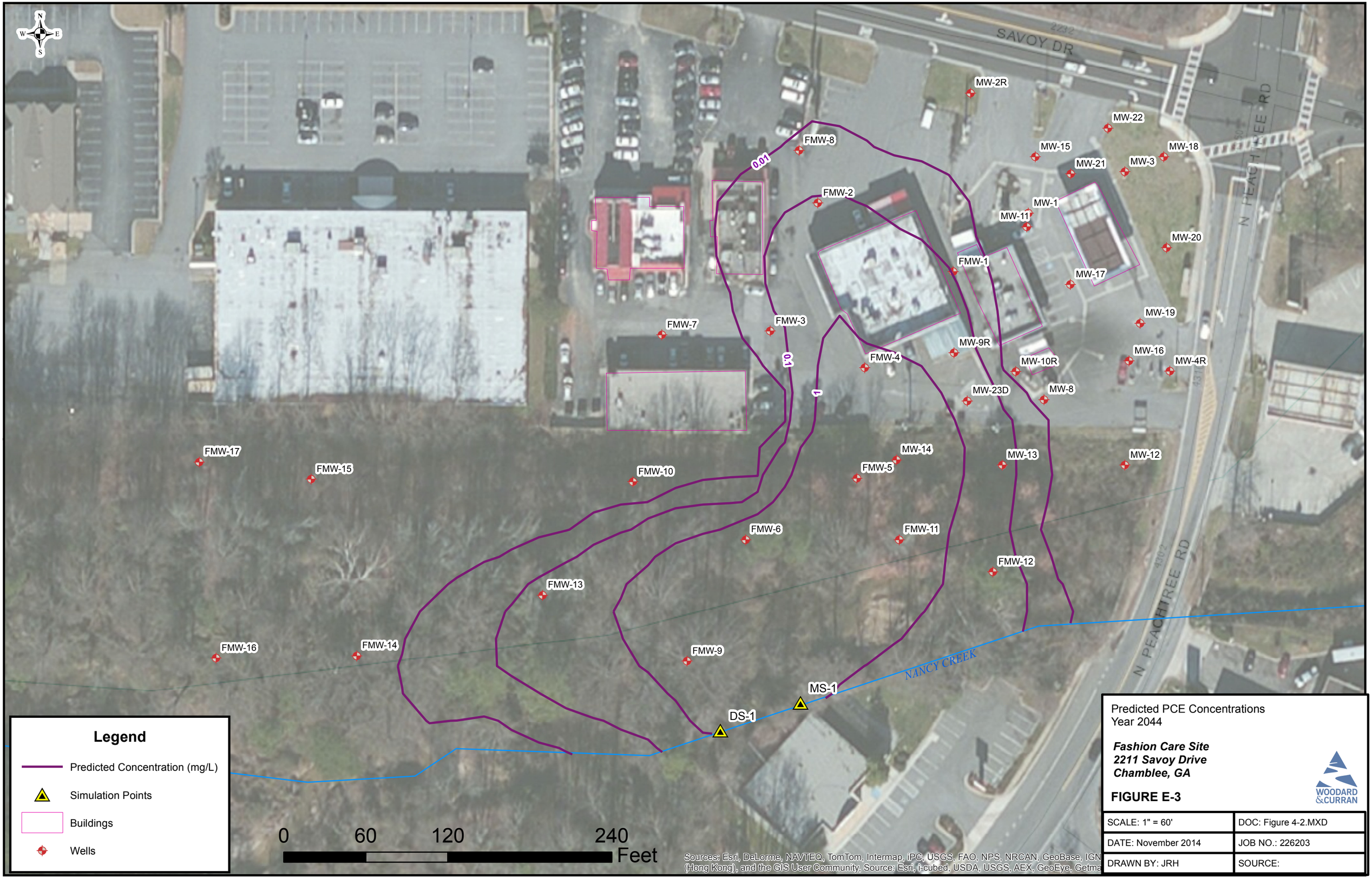
0.1
1
10
Legend
Predicted Concentration (mg/L)
Simulation Points
Buildings
Wells
0
60
120
240
Feet
Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, iPC, USGS, FAO, NPS, NRCAN, GeoBase, IGN
(Hong Kong), and the GIS User Community, Source: Esri, i-cubed, USDA, USGS, AEX, GeoEye, Getma
Predicted PCE Concentrations
Year 2024
Fashion Care Site
2211 Savoy Drive
Chamblee, GA
FIGURE E-1
WOODARD &CURRAN
SCALE: 1" = 60'
DOC: Figure 4-2.MXD
DATE: November 2014
JOB NO.: 226203
DRAWN BY: JRH
SOURCE:


N
W
E
S
SAVOY DR
N PEACHTREE RD
NANCY CREEK
MW-2R
MW-22
MW-15
MW-18
MW-21
MW-3
MW-1
MW-11
MW-20
MW-17
MW-19
MW-16
MW-4R
MW-10R
MW-8
MW-23D
MW-9R
MW-14
MW-13
MW-12
FMW-8
FMW-2
FMW-1
FMW-7
FMW-3
FMW-4
FMW-17
FMW-15
FMW-10
FMW-5
FMW-6
FMW-11
FMW-12
FMW-13
FMW-16
FMW-14
FMW-9
0.01
0.1
MS-1
DS-1
0
60
120
240
Feet
Legend
Predicted Concentration (mg/L)
Simulation Points
Buildings
Wells
Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, iPC, USGS, FAO, NPS, NRCAN, GeoBase, IGN
(Hong Kong), and the GIS User Community, Source: Esri, i-cubed, USDA, USGS, AEX, GeoEye, Getma
Predicted PCE Concentrations
Year 2034
Fashion Care Site
2211 Savoy Drive
Chamblee, GA
FIGURE E-2
WOODARD &CURRAN
SCALE: 1" = 60'
DOC: Figure 4-2.MXD
DATE: November 2014
JOB NO.: 226203
DRAWN BY: JRH
SOURCE:


N
W
E
S
SAVOY DR
N PEACHTREE RD
NANCY CREEK
MW-2R
MW-22
MW-15
MW-18
MW-21
MW-3
MW-1
MW-11
MW-20
MW-17
MW-19
MW-16
MW-4R
MW-10R
MW-9R
MW-23D
MW-8
MW-14
MW-13
MW-12
FMW-8
FMW-2
FMW-1
FMW-7
FMW-3
FMW-4
FMW-17
FMW-15
FMW-10
FMW-5
FMW-6
FMW-11
FMW-12
FMW-13
FMW-16
FMW-14
FMW-9
MS-1
DS-1
0.01
0.1
1
Legend
Predicted Concentration (mg/L)
Simulation Points
Buildings
Wells
0
60
120
240
Feet
Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, iPC, USGS, FAO, NPS, NRCAN, GeoBase, IGN
(Hong Kong), and the GIS User Community, Source: Esri, i-cubed, USDA, USGS, AEX, GeoEye, Getma
Predicted PCE Concentrations
Year 2044
Fashion Care Site
2211 Savoy Drive
Chamblee, GA
FIGURE E-3
WOODARD &CURRAN
SCALE: 1" = 60'
DOC: Figure 4-2.MXD
DATE: November 2014
JOB NO.: 226203
DRAWN BY: JRH
SOURCE:

APPENDIX F: BIOCHLOR SCREEN CAPTURES

BIOCHLOR22 Benchmarking Screen Captures

BIOCHLOR Natural Attenuation Decision Support System

Version 2.2
Excel 2000

Fashion Care Site
Chamblee Georgia
Run Name

Data Input Instructions:

115 → 1. Enter value directly....or
↑ *or* 2. Calculate by filling in gray
0.02 cells. Press Enter, then C
(To restore formulas, hit "Restore Formulas" button)
Variable* → Data used directly in model.

Test if Biotransformation is Occurring → Natural Attenuation

TYPE OF CHLORINATED SOLVENT: Ethenes ◉ Ethanes ○

1. ADVECTION

Seepage Velocity*	Vs	366.3	(ft/yr)
or			
Hydraulic Conductivity	K	6.8E-03	(cm/sec)
Hydraulic Gradient	i	0.005192	(ft/ft)
Effective Porosity	n	0.1	(-)

2. DISPERSION

Alpha x*	22	(ft)
(Alpha y) / (Alpha x)*	0.32	(-)
(Alpha z) / (Alpha x)*	2.E-03	(-)

Calc.

3. ADSORPTION

Retardation Factor*			R	
or				
Soil Bulk Density, rho	1.75	(kg/L)		
FractionOrganicCarbon, foc	2.0E-3	(-)		
Partition Coefficient	Koc			
PCE	95	(L/kg)	4.33	(-)
TCE	61	(L/kg)	3.12	(-)
DCE	40	(L/kg)	2.39	(-)
VC	22	(L/kg)	1.76	(-)
ETH	302	(L/kg)	11.57	(-)
Common R (used in model)* =			**3.12**	

4. BIOTRANSFORMATION

-1st Order Decay Coefficient*

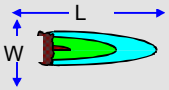
Zone 1	λ (1/yr)	half-life (yrs)	Yield
PCE → TCE	0.180		0.79
TCE → DCE	2.600		0.74
DCE → VC	2.500		0.64
VC → ETH	40.000		0.45

Zone 2	λ (1/yr)	half-life (yrs)
PCE → TCE	0.000	
TCE → DCE	0.000	
DCE → VC	0.000	
VC → ETH	0.000	

λ HELP

5. GENERAL

Simulation Time*	41	(yr)
Modeled Area Width*	190	(ft)
Modeled Area Length*	520	(ft)
Zone 1 Length*	520	(ft)
Zone 2 Length*	0	(ft)



Zone 2= L - Zone 1

6. SOURCE DATA

TYPE: Decaying Single Planar

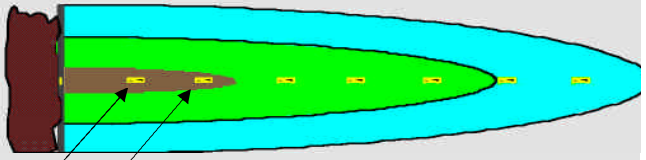
Source Options

Source Thickness in Sat. Zone* 15 (ft)

Width* (ft) Y1 25

Conc. (mg/L)*	C1	k_s* (1/yr)
PCE	190.0	0.08
TCE	75.0	0.08
DCE	1100.0	0.08
VC	50.0	0.08
ETH	1.8	0.08

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells

7. FIELD DATA FOR COMPARISON

PCE Conc. (mg/L)	7.0	4.9	3.1	2.3							
TCE Conc. (mg/L)	3.0	1.8	.26	.25							
DCE Conc. (mg/L)	48.0	40.3	.92	.82							
VC Conc. (mg/L)	1.6	1.6	.001	.02							
ETH Conc. (mg/L)	0	0	.0	.0							
Distance from Source (ft)	0	15	264	305							
Date Data Collected	2014										

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | RUN ARRAY | Help | Restore | RESET | SEE | Paste

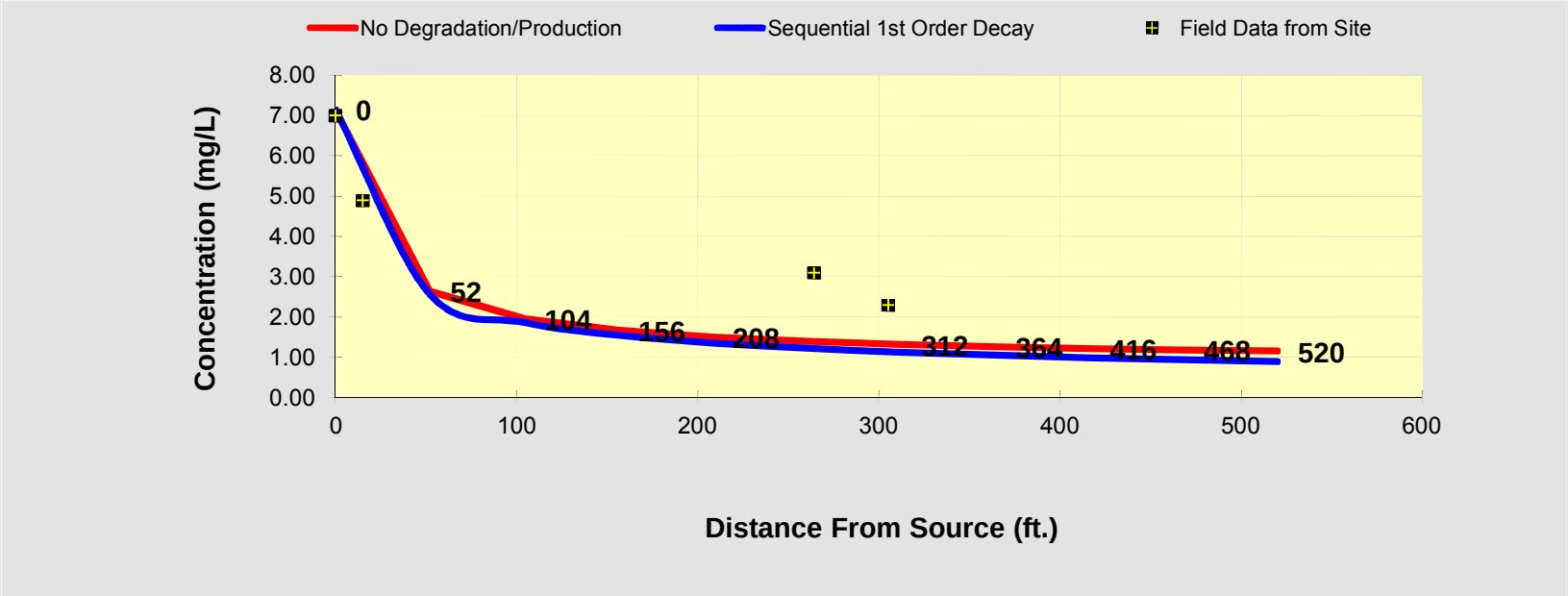
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

PCE	0	52	104	156	208	260	312	364	416	468	520
No Degradation	7.149	2.638	1.968	1.675	1.508	1.399	1.322	1.265	1.221	1.187	1.159
Biotransformation	7.1494	2.570	1.868	1.549	1.359	1.228	1.131	1.054	0.991	0.939	0.893

Monitoring Well Locations (ft)

	0	15	264	305							
Field Data from Site	7.000	4.900	3.100	2.300							



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

41.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

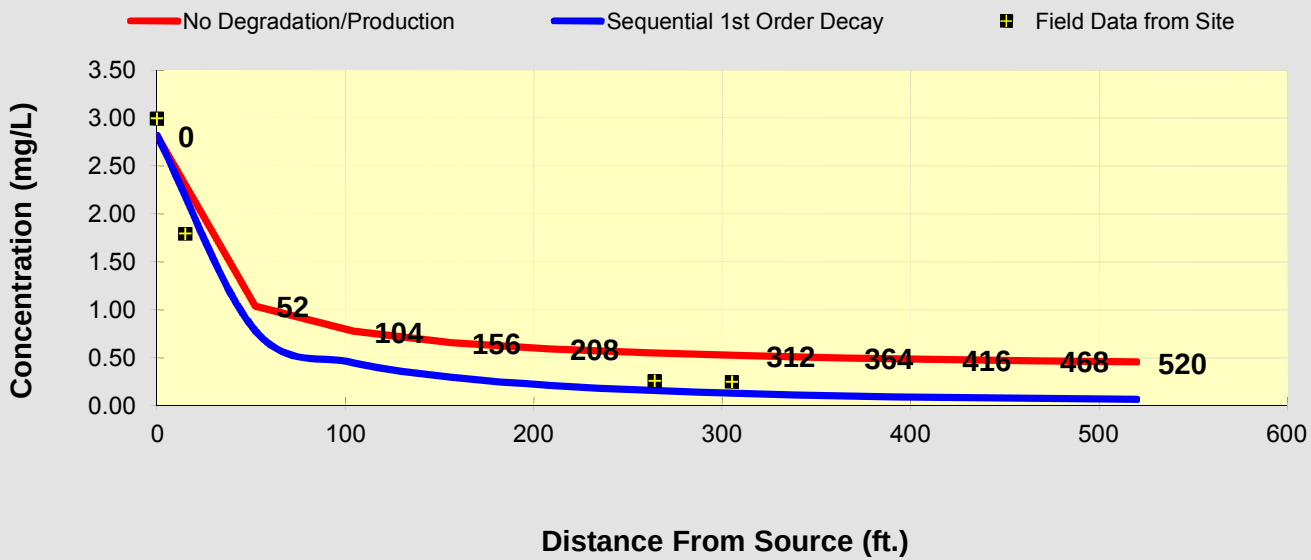
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

TCE	0	52	104	156	208	260	312	364	416	468	520
No Degradation	2.822	1.041	0.777	0.661	0.595	0.552	0.522	0.499	0.482	0.468	0.457
Biotransformation	2.8221	0.787	0.450	0.299	0.214	0.162	0.127	0.104	0.087	0.075	0.067

Monitoring Well Locations (ft)

	0	15	264	305							
Field Data from Site	3.000	1.800	0.260	0.250							



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

41.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

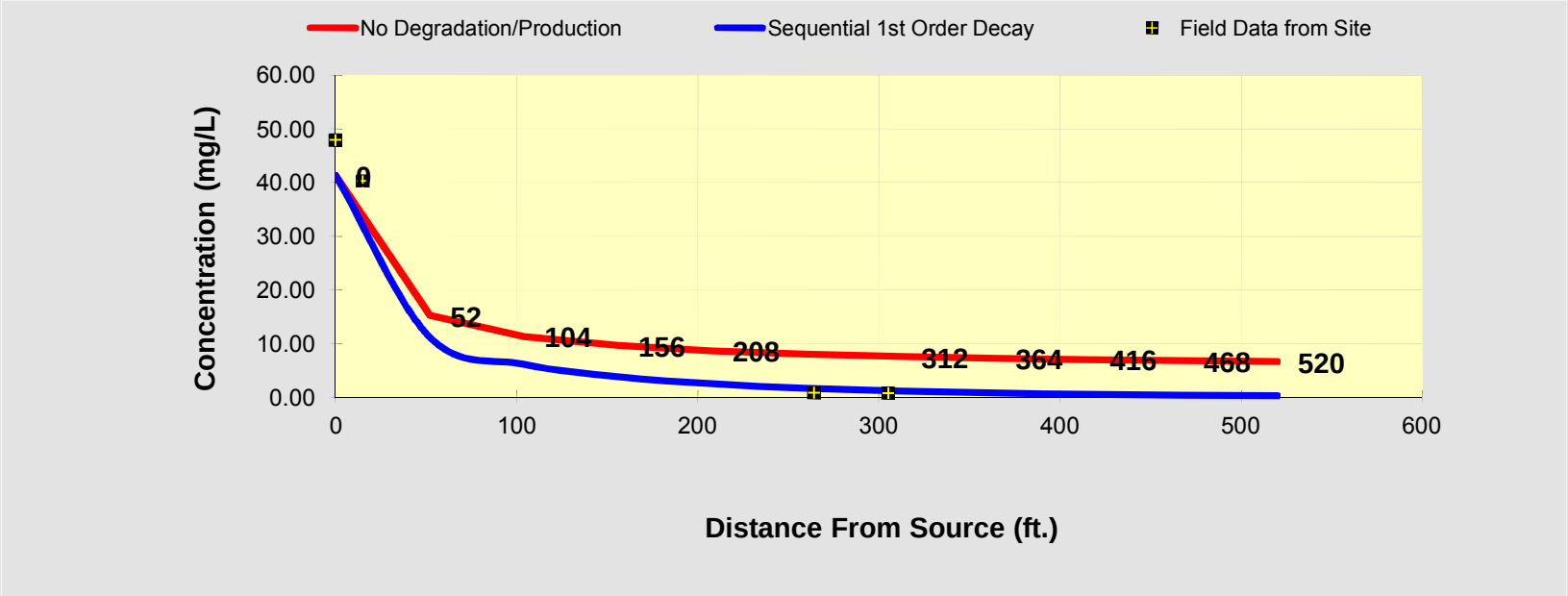
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

DCE	0	52	104	156	208	260	312	364	416	468	520
No Degradation	41.391	15.271	11.391	9.698	8.729	8.098	7.654	7.324	7.070	6.870	6.710
Biotransformation	41.3911	11.249	6.184	3.884	2.582	1.773	1.243	0.885	0.638	0.466	0.344

Monitoring Well Locations (ft)

	0	15	264	305							
Field Data from Site	48.000	40.300	0.920	0.820							



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

41.0 Years

Log ⟺ Linear

Return to Input

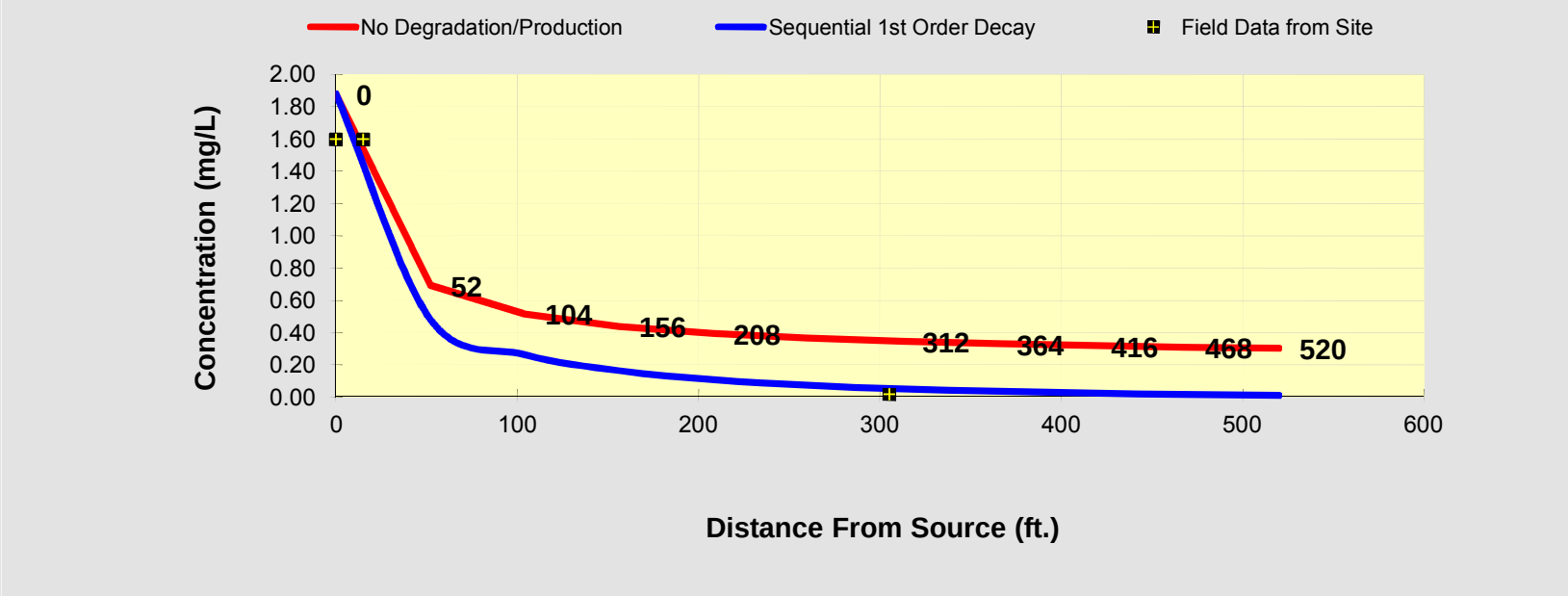
To All

To Array

DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

VC	Distance from Source (ft)										
	0	52	104	156	208	260	312	364	416	468	520
No Degradation	1.881	0.694	0.518	0.441	0.397	0.368	0.348	0.333	0.321	0.312	0.305
Biotransformation	1.8814	0.485	0.265	0.166	0.111	0.076	0.053	0.038	0.027	0.020	0.015

	Monitoring Well Locations (ft)										
	0	15	264	305							
Field Data from Site	1.600	1.600	0.001	0.020							



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

41.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

BIOCHLOR22 Forward Projection Screen Captures

BIOCHLOR Natural Attenuation Decision Support System

Version 2.2
Excel 2000

Fashion Care Site
Chamblee Georgia
Run Name

Data Input Instructions:

115 → 1. Enter value directly....or
↑ *or* 2. Calculate by filling in gray
0.02 cells. Press Enter, then C
(To restore formulas, hit "Restore Formulas" button)
Variable* → Data used directly in model.

Test if Biotransformation is Occurring → Natural Attenuation

TYPE OF CHLORINATED SOLVENT: Ethenes ◉ Ethanes ○

1. ADVECTION

Seepage Velocity*	Vs	407.0	(ft/yr)
or			
Hydraulic Conductivity	K	6.8E-03	(cm/sec)
Hydraulic Gradient	i	0.005192	(ft/ft)
Effective Porosity	n	0.09	(-)

2. DISPERSION

Alpha x*	22	(ft)
(Alpha y) / (Alpha x)*	0.32	(-)
(Alpha z) / (Alpha x)*	2.E-03	(-)

Calc.

3. ADSORPTION

Retardation Factor*			R	
or				
Soil Bulk Density, rho	1.75	(kg/L)		
FractionOrganicCarbon, foc	2.0E-3	(-)		
Partition Coefficient	Koc			
PCE	95	(L/kg)	4.69	(-)
TCE	61	(L/kg)	3.36	(-)
DCE	40	(L/kg)	2.54	(-)
VC	22	(L/kg)	1.85	(-)
ETH	302	(L/kg)	12.74	(-)
Common R (used in model)* =			**3.36**	

4. BIOTRANSFORMATION

-1st Order Decay Coefficient*

Zone 1	λ (1/yr)	half-life (yrs)	Yield
PCE → TCE	0.180		0.79
TCE → DCE	2.600		0.74
DCE → VC	2.500		0.64
VC → ETH	40.000		0.45

Zone 2	λ (1/yr)	half-life (yrs)
PCE → TCE	0.000	
TCE → DCE	0.000	
DCE → VC	0.000	
VC → ETH	0.000	

λ HELP

5. GENERAL

Simulation Time*	40	(yr)
Modeled Area Width*	190	(ft)
Modeled Area Length*	520	(ft)
Zone 1 Length*	520	(ft)
Zone 2 Length*	0	(ft)

L, W

Zone 2= L - Zone 1

6. SOURCE DATA

TYPE: Continuous Single Planar

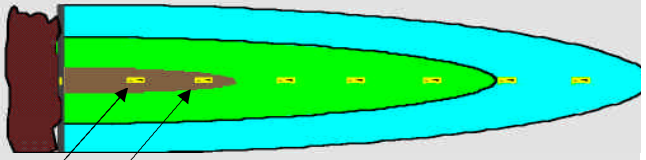
Source Options

Source Thickness in Sat. Zone* 15 (ft)

Width* (ft) Y1 25

Conc. (mg/L)*	C1	k_s* (1/yr)
PCE	16.0	0
TCE	22.0	0
DCE	75.0	0
VC	2.4	0
ETH	1	0

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells

7. FIELD DATA FOR COMPARISON

PCE Conc. (mg/L)	17.0	2.42									
TCE Conc. (mg/L)	22.0										
DCE Conc. (mg/L)	75.0										
VC Conc. (mg/L)	2.4										
ETH Conc. (mg/L)	1										
Distance from Source (ft)	0	245									
Date Data Collected	2057										

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | RUN ARRAY | Help | Restore | RESET | SEE | Paste

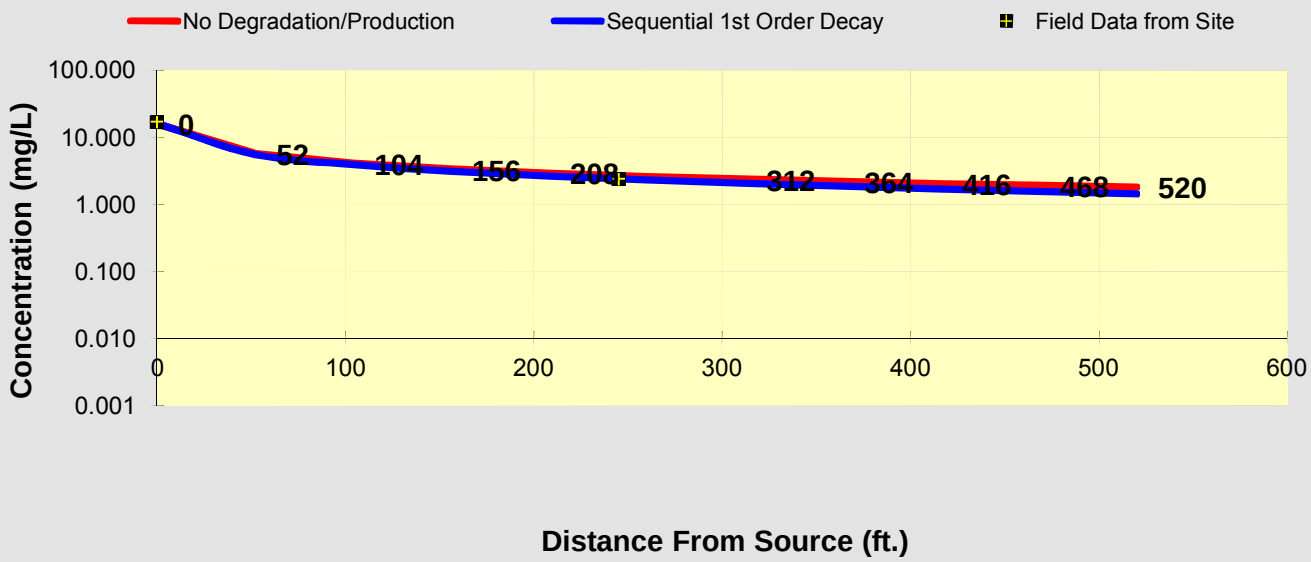
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

PCE	0	52	104	156	208	260	312	364	416	468	520
No Degradation	16.000	5.694	4.097	3.365	2.921	2.614	2.383	2.200	2.049	1.920	1.809
Biotransformation	16.0000	5.566	3.915	3.143	2.667	2.333	2.079	1.876	1.707	1.564	1.440

Monitoring Well Locations (ft)

	0	245									
Field Data from Site	17.000	2.420									



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

40.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

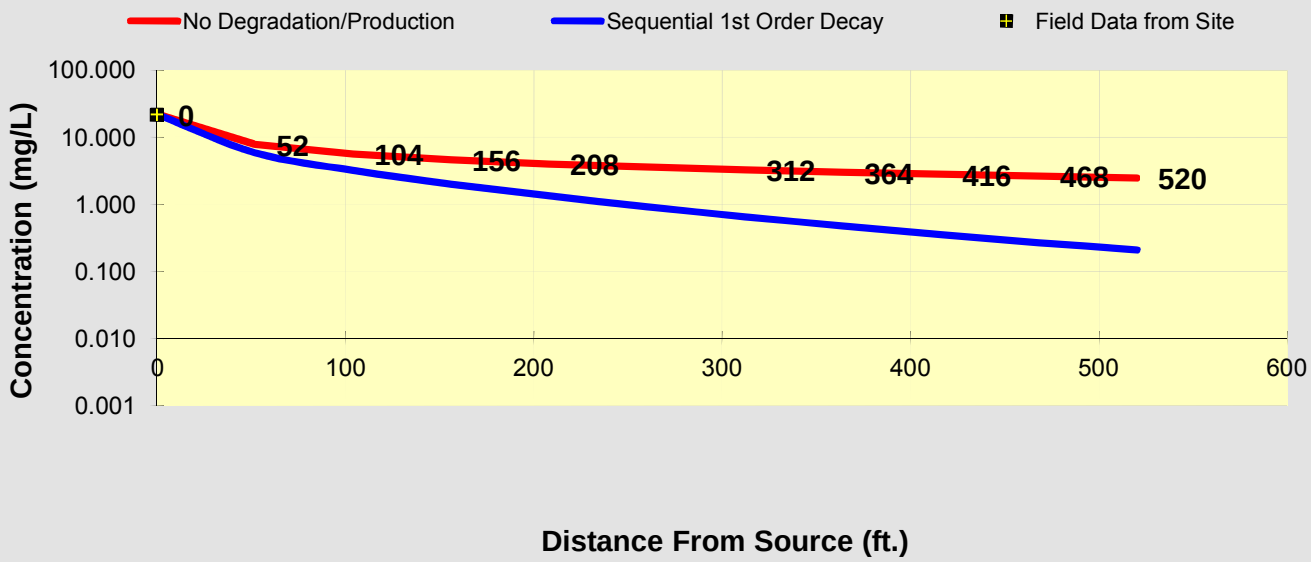
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

TCE	0	52	104	156	208	260	312	364	416	468	520
No Degradation	22.000	7.830	5.634	4.627	4.017	3.595	3.277	3.025	2.817	2.640	2.487
Biotransformation	22.0000	5.906	3.218	2.012	1.338	0.924	0.656	0.477	0.355	0.270	0.209

Monitoring Well Locations (ft)

	0	245									
Field Data from Site	22.000										



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

40.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

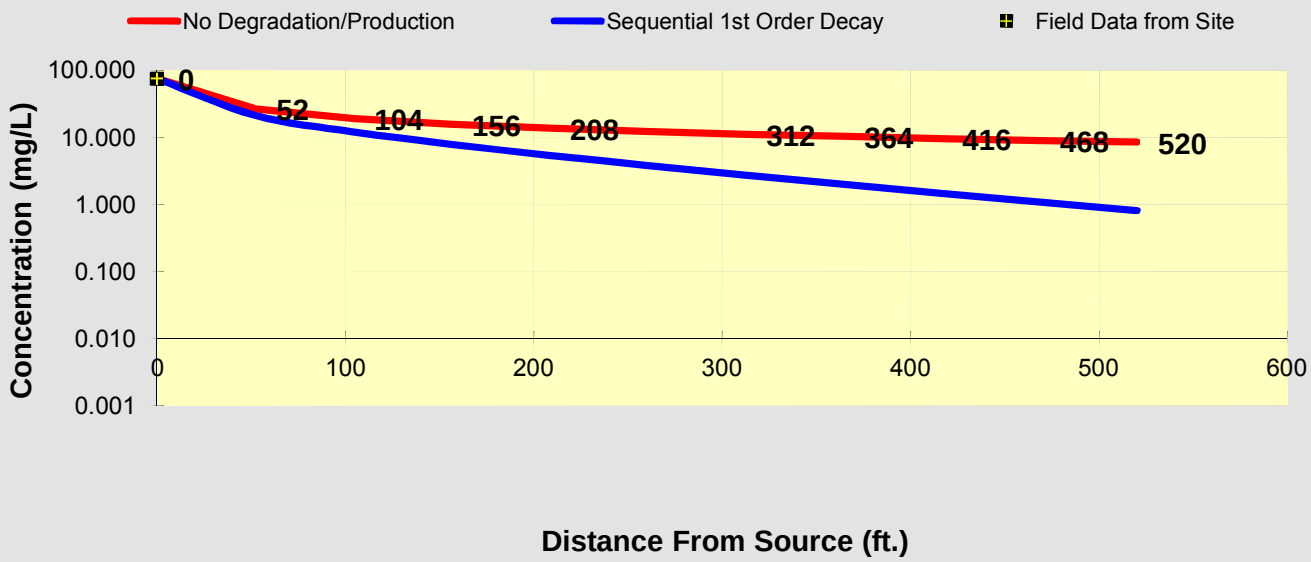
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

DCE	0	52	104	156	208	260	312	364	416	468	520
No Degradation	75.000	26.692	19.205	15.773	13.694	12.255	11.172	10.312	9.602	9.000	8.479
Biotransformation	75.0000	21.237	12.126	7.885	5.411	3.823	2.750	2.002	1.472	1.090	0.813

Monitoring Well Locations (ft)

	0	245									
Field Data from Site	75.000										



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

40.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

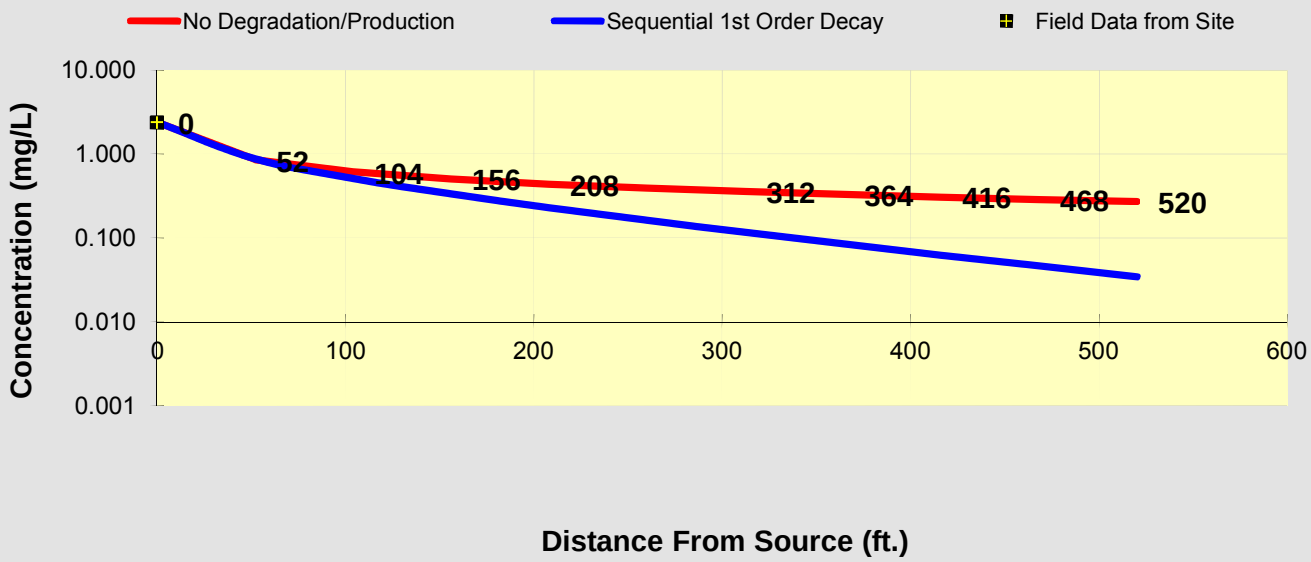
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

VC	0	52	104	156	208	260	312	364	416	468	520
No Degradation	2.400	0.854	0.615	0.505	0.438	0.392	0.358	0.330	0.307	0.288	0.271
Biotransformation	2.4000	0.877	0.513	0.335	0.230	0.162	0.117	0.085	0.063	0.046	0.035

Monitoring Well Locations (ft)

	0	245									
Field Data from Site	2.400										



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

40.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

WOODARD
&CURRAN

woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

APPENDIX H – RISK REDUCTION STANDARD DERIVATIONS

March 29, 2012

Mr. Jason Metzger
Unit Coordinator – Environmental Engineer
Georgia Environmental Protection Division
Hazardous Sites Response Program/Voluntary Remediation Program
2 Martin Luther King, Jr. Drive, SE
Atlanta, GA 30334

Subject: Response to EPD Comments dated February 22, 2012 regarding Voluntary Remediation Program Reports submitted through December 2, 2011:
VRP Site, Fashion Care/Executive Care, HSI No. 10786, 2211 Savoy Drive, Chamblee, DeKalb County, Georgia

Dear Mr. Metzger:

On behalf of the John F. Rowan, Sr. Item IV Trust (Trust), Winter Environmental has addressed, and attached for your review, a number of the comments to the Voluntary Remediation Program (VRP) Reports submitted through December 2, 2011 regarding the Fashion Care/Executive Care VRP Site (HSI No. 10786, 2211 Savoy Drive, Chamblee, DeKalb County, Georgia). The following comments have been addressed and should replace previous versions of the documents provided in the VRP Semiannual Status Report dated December 2, 2012.

Comment #1. The draft Uniform Environmental Covenants (UEC's) have been revised per comments received from the EPD on February 10, 2012. The revised UEC's are attached for your review. These covenants should replace the associated covenants in Appendix B of the VRP Semiannual Status Report dated December 2, 2012.

Comment #5. The Johnson & Ettinger (J&E) vapor models for parcel 18-343-13-001 (Georgia-Alabama Commercial Investments, LLC property) and 18-343-13-005 (Southern Automatic Company property) have been revised per your comments. The results indicate that both properties are below the Hazardous Site Response Act (HSRA) Rules threshold values. The revised models are attached for your review. These revised J&E vapor models should replace the J&E models in Appendix A of the VRP Semiannual Status Report dated December 2, 2012.

Comment #6. The summary tables and input parameters for the J&E models for parcels 18-343-13-001 and 18-343-13-005 have been revised and are attached for your review.

Comment #7. The Type 5 Risk Reduction Standards (RRS) for construction workers and utility workers have been revised in the attached UEC's, as have been the RRS derivation tables. There are very small differences in our calculations for tetrachloroethene and 1,1-dichloroethene that

3350 Green Pointe Parkway
Suite 200
Norcross, Georgia 30092
Main: 404.588.3300
Fax: 404.223.6251
www.winter-environmental.com
A division of
The Winter Construction Company

appear to be due to Excel rounding that could not be resolved. We have defaulted to the values for these constituents provided by EPD. The revised RRS derivation tables are attached for your review. These revised RRS should replace the RRS tables in Appendix D of the VRP Semiannual Status Report dated December 2, 2012.

Comment #8. The Type 5 RRS for 1,1-dichloroethene has been revised in the RRS derivation tables. The revised RRS derivation tables are attached for your review.

Comment #9. The chemical specific input parameters for 1,1-dichloroethene and cis-1,2-dichloroethene have been revised in the RRS derivation tables. The revised RRS derivation tables are attached for your review.

Also noted are Comments #2, #3 and #4 that will be addressed in future site investigation activities and Semiannual VRP Status Reports.

In addition to the responses provided by the Trust, the Trust requests that the EPD provide a property specific "Site Use and Non-Residential Soil RRS Monitoring Evaluation Form" for each Environmental Covenant presented for this site. This is needed prior to presenting the covenants for signature to the affected property owners.

Winter Environmental and the Trust await your review and reply to these items. The Trust would like to obtain executed UEC's from the surrounding property owners as soon as possible to continue to move forward with the VRP. Please contact me with any questions or comments you may have.

Sincerely,

Leonard J. Diprima, Jr., P.G.
Senior Consultant

Cc: John F. Rowan, Sr. Item IV Trust, C/o Catherine Norris

WINTER ENVIRONMENTAL

Revised Draft Uniform Environmental Covenants

- Parcel 18-333-02-023 (ASL Limited Partnership property)
- Parcel 18-343-13-002 (The Trust of John F. Rowan, Sr. (Fashion Care) property)
- Parcel 18-343-13-005 (Southern Automatic Company property)

WINTER ENVIRONMENTAL

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE
Suite 1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor:	ASL Limited Partnership 1515 S. Federal Hwy. 300 Boca Raton, FL 33432-7451
Grantee/Holder:	<Company Name or individual(s)> <Mailing address>
Grantee/Entity with express power to enforce:	State of Georgia Department of Natural Resources Environmental Protection Division 2 Martin Luther King Jr. Drive, SE Suite 1152 East Tower Atlanta, GA 30334
Parties with interest in the Property:	<Company Name or individual(s)> <Mailing address>

Property:

The property subject to this Environmental Covenant is the ASL Limited Partnership Tract (hereinafter "Property"), located on the 4200 – 4300 Block of North Shallowford Road, in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on October 12, 1982 from ARA Associates – Shangri-La, Ltd., a New Jersey limited partnership to ASL Limited Partnership recorded in Deed Book 4673, Page 272, DeKalb County Records. The area is located in Land Lot 334 of the 18th District of DeKalb County, Georgia. The property consists of approximately 10.45 acres of undeveloped property. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-333-02-023 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in

the following documents:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.
- Vapor Intrusion Model - Response to EPD Comments dated February 22, 2012 regarding Voluntary Remediation Program Reports submitted through December 2, 2011: VRP Site, Fashion Care/Executive Care, HSI No. 10786, 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, dated March 14, 2012.

This document is available at the following location:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Add Property Address here, or Owner Contact Information if undeveloped.

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act and the Georgia VRP.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by ASL Limited Partnership, its successors and assigns, <name of Grantee/Holder>, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the adjacent property; 2211 Savoy Drive, Chamblee Georgia. PCE, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene and vinyl chloride have been detected in groundwater beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated there under (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The institutional controls consist of no use of groundwater on the Property, and utility and construction worker protection requirements regarding impacted groundwater in Area D as shown on Figure 1 of the Property. Engineering controls required for the Property are the implementation and maintenance of vapor mitigation measures beneath any existing enclosed structures and any enclosed structures constructed within Area C and Area D as shown on Figure 1, unless updated vapor modeling approved by the EPD indicates vapor mitigation is unnecessary.. These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Grantor, ASL Limited Partnership (hereinafter "ASL"), hereby binds Grantor, its successors and assigns to the activity and use restrictions for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the <name of Holder> and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq*., and the

rules promulgated there under. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from exercising any authority under applicable law.

ASL makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of <name of Holder>, EPD, ASL and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, <name of Holder> or its successors and assigns, ASL or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, or to apply for building permit(s). The EPD must be notified within 3 business days of any subsurface site work in the environmentally impacted area shown on Figure 1 that would affect the Property. These notifications shall include a certification that the requirements of this covenant were adhered to.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant. The notice shall explicitly state the requirements of Activities 5-7 to ensure worker protection and proper handling of impacted media.

4. Periodic Reporting. Annually, beginning no later than 12 months following the effective date of this Environmental Covenant, the Owner shall submit to EPD a completed Site Use, Activity and Monitoring Evaluation Form (attached).

5. Activity and Use Limitation(s). The Property shall be used for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant, unless the requirements for residential use identified below are followed.

   A vapor mitigation system or barrier shall be installed and maintained with the construction of any enclosed structures within Areas C and D indicated on attached Figure 1 until the HSRA regulated substances in groundwater at the Property reach HSRA RRS, or if vapor modeling of groundwater contamination indicates that a vapor mitigation is not required for enclosed structures and EPD concurs

with the vapor modeling results.

Residential use of the Property requires:

- Vapor mitigation measures approved by EPD installed on enclosed structures placed within Area C and Area D as shown on Figure 1; or
- Vapor modeling of groundwater contamination within Area C and Area D as shown on Figure 1 indicating that a vapor mitigation is not required for enclosed structures and EPD concurs with the vapor modeling results; and
- Groundwater use is prohibited, unless EPD concurs that groundwater is remediated to residential RRS.

6. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless COI are treated to below HSRA residential risk reduction standards.

   Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

7. Utility Worker & Construction Worker Protection. Levels of PCE have been identified in groundwater above 0.286 mg/L and 0.082 mg/L, the calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and utility workers, respectively. The area(s) with concentrations above Type 5 RRS levels is identified as Area D on Figure 1. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade. Prior to conducting construction or subsurface utility work that may result in exposure to groundwater in the designated area, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted groundwater performed in the execution of work should be done in accordance with Item 6 above.

   The exposure duration assumed for a utility worker was 35 days per year, for a period of 25 years. The exposure duration assumed for a construction worker was 250 days a year, for a period of no more than one year. Therefore, utility worker exposure in the areas that meet Type 5 RRS, but exceed Type 1-4 RRS, should not exceed 35 days per year for 25 years, and for construction workers should not to exceed 250 days in a year. If on site works in the areas designated above are to be exceeded, then the procedures outlined above must be followed to eliminate the work exposure pathway.

8. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

9. Right of Access. In addition to any rights already possessed by EPD and/or the <name of Holder>, the Owner shall allow authorized representatives of EPD and/or <name of Holder> the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental

Covenant, and to inspect records that are related to the Corrective Action.

10. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) <name of Holder>, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

11. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

12. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

13. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 10 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1154 East Tower
Atlanta, GA 30334

ASL Limited Partnership
1515 S. Federal Hwy. 300
Boca Raton, FL 33432-7451

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

ASL Limited Partnership

_____
[Name of Signatory]
[Title]

Dated: _____

<NAME OF HOLDER>

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

Exhibit A
Legal Description

All that tract or parcel of land lying and being in Land Lots 333 and 334 of the 18th District of DeKalb County, Georgia, and being more particularly described as follows:

Starting at an iron pin at the intersection of the North line of Land Lot 334 and the Nortwesterly side of North Peachtree Road (70 foot right-of-way), running thence South 15 degrees 26 minutes West along the Northwest side of North Peachtree Road, 117.62 feet; thence South 24 degrees 59 minutes West along siad right-of-way, 97.22 feet to a point; thence South 32 degrees 49 minutes West along said right-of-way, 97.52 feet to a point; thence running South 40 degrees 46 minutes West along said right-of-way, 97.55 feet to a point; running thence South 48 minutes 24 minutes West along said right-of-way 82.79 feet to a point; thence North 48 degrees 29 minutes West 157.2 feet to a point in Nancy Creek; thence North 88 degrees 44 minutes 30 seconds West 435.3 feet to a point; thence North 1 degree 15 minutes 30 seconds West 78 feet to a point in Nancy Creek; thence North 70 degrees 5 minutes 30 seconds West 80.10 feet to a point in Nancy Creek; thence South 62 degrees 24 minutes 30- seconds West 73.50 feet to a point in Nancy Creek; thence north 66 degrees 25 minutes 30 seconds West 158.30 feet to a point in Nancy Creek; thence North 78 degrees 16 minutes West 585.0 feet to a point in Nancy Creek; thence South 70 degrees 55 minutes West 138.50 feet to a point in Nancy Creek; thence South 34 degrees 5 minutes West 118.40 feet to a point in Nancy Creek; thence South 28 degrees 55 minutes East 35.0 feet to a point; thence South 61 degrees 5 minutes West 194.4 feet to a point on the Easterly right-of-way of North Shallowford Road, said road being an 80 foot right-of-way; thence North 29 degrees 30 minutes West 98.54 feet to a point; thence North 25 degrees 59 minutes 30 seconds West 255.67 feet to a point; thence South 89 degrees 49 minutes East 2175.67 feet to a point on the Northwesterly side of North Peachtree Road and the point of beginning.

Less and except all that tract or parcel of land lying and being in Land Lot 334 of the 18th District, DeKalb County, Georgia, conveyed from ASL Limited Partnership to Carlton G. Chapman on December 23, 1988, recorded in Deed Book 5689 page 052, DeKalb County Records, and being more particularly described as follows:

TO FIND THE TRUE POINT OF BEGINNING, commence at an iron pin set at the intersection of the north line of Land Lot 334 and the northwesterly right-of-way of North Peachtree Road; running thence south 15 degrees 12 minutes 04 seconds west along said right-of-way a distance of 116.74 feet to an iron pin set; running thence south 24 degrees 38 minutes 05 seconds west a distance of 60.00 feet to an iron pin set and the TRUE POINT OF BEGINNING; from the TRUE POINT OF BEGINNING run thence along the northwesterly right-of-way of North Peachtree Road, south 24 degrees 38 minutes 05 seconds west a distance of 37.22 feet to an iron pin set; thence continuing along said right-of-way south 32 degrees 28 minutes 05 seconds west a distance of 978.52 feet to a point; running thence south 40 degrees 03 minutes 05 seconds west a distance of 82.79 feet to an iron pin set; running thence north 48 degrees 49 minutes 55 seconds west a distance of 157.20 feet to an iron pin set; running thence north 00 degrees 07 minutes 01 seconds west a distance of 141.34 feet to an iron pin set; running thence north 89 degrees 50 minutes 05 seconds east a distance of 311.32 feet to an iron pin set and the TRUE POINT OF BEGINNING. Said tract containing 1.151 acres as shown by plat of survey for Carl Chapman, prepared by Quadra-Tech, Inc., dated December 12, 1986, being certified by Wallace Long Hambrick, Georgia Registered Land Surveyor No. 1375.

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE
Suite 1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor: The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
P.O. Box 82
Rancho Santa Fe, CA 92067

Grantee/Holder: <Company Name or individual(s)>
<Mailing address>

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1152 East Tower
Atlanta, GA 30334

Parties with interest in the Property: <Company Name or individual(s)>
<Mailing address>

Property:

The property subject to this Environmental Covenant is the Fashion Care/Executive Care Tract (hereinafter "Property"), located at 2211 Savoy Drive in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on November 7, 2003 from Business Associates, Inc., a Georgia Corporation to John F. Rowan recorded in Deed Book 15562, Page 660, DeKalb County Records. The area is located in Land Lot 343 of the 18th District of DeKalb County, Georgia. The property consists of approximately 0.61 acres of property developed with a single, one-story building that contains a drycleaner on the west side and a restaurant on the east side. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-343-13-002 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document[s]:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.
- Point of Compliance Monitoring Plan (as referenced in Activity 4)

These documents are available at the following locations:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Fashion Care Cleaners
2211 Savoy Drive
Chamblee, GA

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act and the Georgia VRP.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by the Trust of John F. Rowan, Sr., its successors and assigns, <name of Grantee/Holder>, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the Property. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene, vinyl chloride and 1,1-dichloroethene have been detected in groundwater beneath the Property. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene and vinyl chloride have been detected in soil beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The institutional controls consist of no use of groundwater on the Property, and utility and construction worker protection requirements regarding impacted soil in Area B on Figure 1, and groundwater in Area D on Figure 1 of the Property. Engineering controls required for the Property are the maintenance of existing concrete and asphalt covering soil impacted with regulated chemicals in Area A on Figure 1, the implementation and maintenance of vapor mitigation measures beneath any existing enclosed structures on the Property and any enclosed structures constructed on the Property within the areas indicated on attached Figure 1 (Area A) and Figure 2 (Area C). These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Grantor, the Trust of John F. Rowan, Sr. (hereinafter "Trust"), hereby binds Grantor, its successors and assigns to the activity and use restriction(s) for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the <name of Holder> and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq*., and the rules promulgated thereunder. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from exercising any authority under applicable law.

The Trust makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of <name of Holder>, EPD, Trust and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, <name of Holder> or its successors and assigns, the Trust or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, or to apply for building permit(s). The EPD must be notified within 3 business days following any subsurface site work in the environmentally impacted areas shown on Figures 1 and 2. These notifications shall include a certification that the requirements of this covenant were adhered to.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant. The notice shall explicitly state the requirements of Activities 5-8 to ensure worker protection and proper handling of impacted media.

4. Periodic Reporting. Annually, beginning no later than 12 months following the effective date of this Environmental Covenant, the Owner shall submit to EPD a completed Site Use, Activity and Monitoring Evaluation Form (attached). In addition, an Annual Point of Compliance Monitoring Report. as specified in the EPD approved Point of Compliance Monitoring Plan, must be submitted to the EPD until point of compliance monitoring is deemed unnecessary by the EPD in accordance with the specifications set forth in the Point of Compliance Monitoring Plan.

5. Activity and Use Limitation(s). The Property shall be used only for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any residential use of the Property shall be prohibited unless EPD concurs that soil and groundwater are remediated to residential RRS. A vapor mitigation system or barrier shall be installed and maintained on existing structures and on any additional enclosed structures

constructed until the HSRA regulated substances in soil and groundwater at the Property reach HSRA RRS, or vapor modeling of groundwater and soil contamination in the respective areas defined on Figure 1 and 2 indicate that vapor mitigation is not required for enclosed structures and EPD concurs with the vapor modeling results.

6. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless HSRA regulated substances are treated to below HSRA residential RRS for groundwater.

   Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

7. Soil Limitation. The concrete and asphalt covering Area A in Figure 1 as having regulated substances at concentrations greater than HSRA non-residential RRS, must be maintained and shall only be breached in accordance with the restrictions herein. Should intrusive activities within this area be required, the extracted, impacted soil should be managed in accordance with all applicable local, state and federal rules and regulations governing the management of such material. Removed soil in this area should not be placed back into the excavation, but be properly characterized for disposal in accordance with 40 CFR Part 261(specifically 40 CFR Parts 261.20-24, regarding characteristic waste) and transported and disposed of at an appropriate disposal facility. The excavation should be backfilled with clean fill material and recapped with an impervious surface. Recapping of the area of excavation would not be necessary if all the impacted soil in the excavation area is removed to below applicable HSRA residential RRS to the water table for the regulated chemicals of concern noted in the "Description of Contamination and Corrective Action" above.

8. Utility Worker & Construction Worker Protection. HSRA regulated chemicals have been identified in soil and groundwater above calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and/or utility workers. The following regulated chemicals have been identified in soil above calculated risk-based threshold levels for the protection of construction workers and/or utility workers as indicated. The area with soil concentrations above these levels is identified as Area B on Figure 1, attached.

Soil - HSRA Type 5 RRS for the Protection of Construction Workers and/or Utility Workers			
HSRA regulated chemical	Construction Worker Threshold Concentration (mg/kg)	Utility Worker Threshold Concentration (mg/kg)	Comments
PCE	142	1015	

The following regulated chemicals have been identified in groundwater above calculated risk-based threshold levels for the protection of construction workers and/or utility workers as indicated. The area with groundwater concentrations above Type 5 RRS is identified as Area D on attached Figure 2. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade.

Groundwater - HSRA Type 5 RRS for the Protection of Construction Workers and/or Utility Workers			
HSRA regulated chemical	Construction Worker Threshold Concentration (mg/L)	Utility Worker Threshold Concentration (mg/L)	Comments
PCE	0.12	0.82	
Trichloroethene	0.006	0.041	
Cis-1,2-dichloroethene	2.6	18.0	This chemical was identified above the construction worker threshold only.
Trans-1,1-dichloroethene	0.174	1.24	
Vinyl chloride	0.27	0.097	

Prior to conducting construction or subsurface utility work that may result in exposure to soil or groundwater in the designated Type 5 areas, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted soil or groundwater performed in the execution of work should be done in accordance with Items 7 and 6 above, respectively.

The exposure duration assumed for a utility worker was 35 days per year, for a period of 25 years. The exposure duration assumed for a construction worker was 250 days a year, for a period of no more than one year. Therefore, uitility worker exposure in the areas that meet Type 5 RRS, but exceed Type 1-4 RRS, should not exceed 35 days per year for 25 years, and for construction workers should not to exceed 250 days in a year. If on site works in the areas designated above are to be exceeded, then the procedures outlined above must be followed to eliminated the work exposure pathway.

9. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

10. Right of Access. In addition to any rights already possessed by EPD and/or the <name of Holder>, the Owner shall allow authorized representatives of EPD and/or <name of Holder> the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

11. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) <name of Holder>, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

12. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

13. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

14. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 10 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1154 East Tower
Atlanta, GA 30334

The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
P.O. Box 197
Carmel, CA 93924

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____ day of _____, 20___.

The Trust of John F. Rowan, Sr.

_____
[Name of Signatory]
[Title]

Dated: _____

<NAME OF HOLDER>

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

_____
[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires_____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF _____
COUNTY OF _____

On this _ day of _____, 20__, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

Exhibit A
Legal Description

All that tract or parcel of land lying and being in Land Lot 343 of the 18th District of DeKalb County, Georgia and being more particularly described as follows: Beginning at an iron pin on the westerly line of the right of way of North Peachtree Road (which line is 35 feet westerly from the center line of said road) and on the line dividing Land Lots 343 and 334; and running thence along said Land Lot line South, 89 degrees 53 minutes West, 213 feet to an iron pin; thence North 22 degrees 15 minutes West, 158.85 feet to an iron pin; thence North 15 degrees 11 minutes East, 120 feet to an iron pin on the southerly line of the right of way of I-285; thence South 74 degrees 49 minutes East along the southerly right of way of I-285, 100 feet to an iron pin; thence South 15 degrees 11 minutes West, 990 feet to an iron pin; thence South 23 degrees 25 minutes 30 seconds East, 111.6 feet to an iron pin; thence South 60 degrees 44 minutes East, 60 feet to an iron pin; thence North 89 degrees 53 minutes East, 75 feet to an iron pin on the westerly right of way of North Peachtree Road; thence along said right of way South 9 degrees 17 minutes 30 seconds West, 18 feet to the POINT OF BEGINNING. According to a Plat by Earnest L. Boggus dated June 14, 1968, revised April 10, 1969, revised May 8, 1970. Subject to covenants, easements and restrictions of record and to utility easements.

This is the same property conveyed by Business Associates, Inc. to CJH Capital Corporation by Warranty Deed dated September 21, 1987, recorded in Deed Book 5954, page 189, Clerk's Office, DeKalb County Superior Court.

After Recording Return to:

Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King, Jr. Drive, SE Suite
1462 East
Atlanta, Georgia 30334

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor: Southern Automatic Company
4420 Tree Haven Drive, N.E.
Atlanta, Georgia 30342-3426

Grantee/Holder: <Company Name or individual(s)>
<Mailing address>

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1152 East Tower
Atlanta, GA 30334

Parties with interest in the Property: <Company Name or individual(s)>
<Mailing address>

Property:

The property subject to this Environmental Covenant is the Southern Automatic Company N. Peachtree Tract (hereinafter "Property"), located at 4306 N. Peachtree Road, in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on November 25, 1974 from Hoke A. Rowan, Jr. to Southern Automatic Company recorded in Deed Book 3267, Page 130, DeKalb County Records. The area is located in Land Lot 343 of the 18th District of DeKalb County, Georgia. The property consists of approximately 0.51 acres of property developed at the time of this covenant with a single, one-story building that contains a dentist office, a beauty shop, and other retail stores. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-343-13-005 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.
- Vapor Intrusion Model - Response to EPD Comments dated February 22, 2012 regarding Voluntary Remediation Program Reports submitted through December 2, 2011: VRP Site, Fashion Care/Executive Care, HSI No. 10786, 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, dated March 14, 2012.

This document is available at the following location:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1462 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Add Property Address here, or Owner Contact Information if undeveloped.

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act and the Georgia VRP.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by Southern Automatic Company, its successors and assigns, <name of Grantee/Holder>, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the adjacent property; 2211 Savoy Drive, Chamblee Georgia. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene, vinyl chloride and 1,1-dichloroethene have been detected in groundwater beneath the Property. PCE, trichloroethene and cis-1,2-dichloroethene have been detected in soil beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated there under (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The institutional controls consist of no use of groundwater on the Property, and utility and construction worker protection requirements regarding impacted groundwater in designated area of the property. Engineering controls required for the Property are:

- The maintenance of existing concrete and asphalt covering soil impacted with regulated chemicals in Area A of Figure 1, and
- The implementation and maintenance of vapor mitigation measures beneath any enclosed structures constructed on the Property within Area C on attached Figure 2, unless updated vapor modeling approved by the EPD indicates vapor mitigation is unnecessary.

These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Grantor, Southern Automatic Company (hereinafter "Southern Automatic"), hereby binds Grantor, its successors and assigns to the activity and use restrictions for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the <name of Holder> and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq*., and the rules promulgated there under. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from exercising any authority under applicable law.

Southern Automatic makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of <name of Holder>, EPD, Southern Automatic and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, <name of Holder> or its successors and assigns, Southern Automatic or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activityand/orUseLimitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, or to apply for building permit(s). The EPD must be notified within 3 business days following any subsurface site work in the environmentally impacted areas shown on Figures 1 and 2. These notifications shall include a certification that the requirements of this covenant were adhered to.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant. . The notice shall explicitly state the requirements of Activities 5-7 to ensure worker protection and proper handling of impacted media.

4. Periodic Reporting. Annually, beginning no later than 12 months following the effective date of this Environmental Covenant, the Owner shall submit to EPD a completed Site Use, Activity and Monitoring Evaluation Form (attached).

1. Activity and Use Limitation(s). The Property shall be used for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant, unless the requirements identified below are followed for residential use. Non-residential use requires:
   - A vapor mitigation system or barrier be installed and maintained with the construction of any enclosed structures within the impacted soil Area A as indicated on attached Figure 1 and impacted groundwater Area C as indicated on Figure 2, until the HSRA regulated substances in soil and groundwater at the Property reach non-residential HSRA RRS,; or
   - Vapor modeling of groundwater and/or soil contamination in the respective areas defined on Figure 1 and 2 indicate that a vapor mitigation is not required for enclosed structures and EPD concurs with the vapor modeling results; and
   - Groundwater use is prohibited (unless EPD concurs that groundwater is remediated to residential RRS).

Residential use of the Property requires:

- A vapor mitigation system or barrier be installed and maintained with the construction of any enclosed structures within the impacted groundwater Area C as indicated on Figure 2, until the HSRA regulated substances in groundwater at the Property reach non-residential HSRA RRS; or
- Vapor modeling of groundwater contamination indicates that a vapor mitigation is not required for enclosed structures in this area and EPD concurs with the vapor modeling results,; and
- No residential structures should be constructed over the impacted soil Area A as indicated on attached Figure 1 and the requirements defined in Section 6 (Soil Limitations) below must be adhered to, unless the soil is remediated to residential standards in this area; and
- Groundwater use is prohibited, unless EPD concurs that groundwater is remediated to residential RRS.

5. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless HSRA regulated substances are treated to below HSRA residential RRS for groundwater.

   Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

6. Soil Limitation. The concrete and asphalt covering the area designated as Area A in Figure 1 as having regulated substances at concentrations greater than HSRA non-residential RRS, must be maintained and shall only be breached in accordance with the restrictions herein. Should intrusive activities within the area designated in Figure 1 as having regulated substances at concentrations greater than HSRA non-residential RRS be required, the extracted, impacted soil should be managed in accordance with all applicable local, state and federal rules and regulations governing the management of such material. Removed soil in this area should not be placed back into the excavation, but be properly characterized for disposal in accordance with 40 CFR Part 261(specifically 40 CFR Parts 261.20-24, regarding characteristic waste) and transported and disposed of at an appropriate disposal facility. The excavation should be backfilled with clean fill material and recapped with an impervious surface. Recapping of the area of excavation would not be necessary if all the impacted soil in the excavation area is removed to below applicable HSRA residential RRS to the water table for the regulated chemicals of concern noted in the "Description of Contamination and Corrective Action" above.

7. Utility Worker & Construction Worker Protection. Levels of the following HSRA regulated chemicals have been identified in groundwater above calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and/or utility workers as indicated:

HSRA regulated chemical	Construction Worker Threshold Concentration (mg/L)	Utility Worker Threshold Concentration (mg/L)	Comments
PCE	0.12	0.82	
Trichloroethene	0.006	0.041	
Cis-1,2-dichloroethene	2.6	18.0	This chemical was identified above the construction worker threshold only.

The area(s) with concentrations above Type 5 RRS levels is identified as Area D on attached Figure 2. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade. Prior to conducting construction or subsurface utility work that may result in exposure to groundwater in the designated area, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted groundwater performed in the execution of work should be done in accordance with Item 5 above.

The exposure duration assumed for utility worker was 35 days per year, for a period of 25 years. The exposure duration assumed for a construction worker was 250 days a year, for a period of no more than one year. Therefore, utility worker exposure in the areas that meet Type 5 RRS, but exceed Type 1-4 RRS, should not exceed 35 days per year for 25 years, and for construction workers should not to exceed 250 days in one year. If on site works in the areas designated above are to be exceeded, then the procedures outlined above must be followed to eliminate the work exposure pathway.

8. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

9. Right of Access. In addition to any rights already possessed by EPD and/or the <name of Holder>, the Owner shall allow authorized representatives of EPD and/or <name of Holder> the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

10. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) <name of Holder>, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

11. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

12. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any

respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

13. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

RepresentationsandWarranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 11 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1154 East Tower
Atlanta, GA 30334

Southern Automatic Company
4420 Tree Haven Drive, N.E.
Atlanta, Georgia 30342-3426

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the _____day of _____, 20____.

Southern Automatic Company

_____

[Name of Signatory]
[Title]

Dated: _____

<NAMEOFHOLDER>

_____

[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

_____

[Name of Person Acknowledging Receipt]
[Title]

Dated: _____

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____day of _____, 20 __, I certify that _____ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

[CORPORATE ACKNOWLEDGMENT]

STATE OF _____
COUNTY OF _____

On this _____day of _____, 20 __, I certify that _____ personally appeared before me, acknowledged that **he/she** is the _____ of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF _____
COUNTY OF _____

On this _____day of _____, 20 __, I certify that _____ personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public in and for the State of
Georgia, residing at _____.
My appointment expires _____.

Exhibit A Legal
Description

Beginning at an iron pin on the south line of Land Lot 343, said point being south 89 degrees 53 minutes west 213.00 feet from the westerly right of way of North Peachtree Road, (70' R/W), thence south 89 degrees 53 minutes west 225.00 feet along the south line of Land Lot 343 to an iron pin, thence north 0 degrees 7 minutes west 316.8 feet to an iron pin on the southerly right of way of I-285, thence south 74 degrees 49 minutes east along the southerly right of way of I-285, 203.9 feet to an iron pin, thence south 15 degrees 11 minutes west 120.0 feet to a masonry nail, thence south 22 degrees 15 minutes east to the south line of Land Lot 343 and the point of beginning.

Revised Johnson & Ettinger Vapor Models

- Parcel 18-343-13-001 (Georgia-Alabama Commercial Investments, LLC property)
- Parcel 18-343-13-005 (Southern Automatic Company property)

WINTER ENVIRONMENTAL

INTRODUCTION

This technical summary describes a vapor intrusion analysis of volatile organic compound (VOC) plumes originating from the Fashion Care Dry Cleaner site located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia (HSI 10786), and from the release of gasoline from the gas station located on Georgia-Alabama Commercial Investments, LLC property. The Johnson & Ettinger transport model (J&E), release 3.1, obtained from the EPA download page and updated with the November 2011 Regional Screen Level Table (RSLT), was used to estimate the incremental cancer risk and Hazard Quotient from VOCs in groundwater at the Georgia-Alabama Commercial Investments, LLC property (EZ-Serve Gas Station), Tax Parcel 18-343-13-001. Table E-1 summarizes the J&E model inputs and cumulative incremental risk results for the EZ-Serve Gas Station resulting from vapor intrusion from groundwater impacts. For reference, both the J&E Model and RSLT can be obtained from the USEPA[1,2]. The following discussion is obtained directly from the J&E User's Guide:

This revised version of the User's Guide corresponds with the release of Version 3.1 of the Johnson and Ettinger (1991) model (J&E) spreadsheets for estimating subsurface vapor intrusion into buildings. Several things have changed within the models since Version 2 was released in December 2000 and since the original version was released in September 1998. The following represent the major changes in Version 3.1 to be consistent with Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Quality from Groundwater and Soils dated November 25, 2002.

The J&E Model is a one-dimensional analytical solution to convective and diffusive vapor transport into indoor spaces and provides an estimated attenuation coefficient that relates the vapor concentration in the indoor space to the vapor concentration at the source of contamination. The model is constructed as both a steady-state solution to vapor transport (infinite or non-diminishing source) and as a quasi-steady-state solution (finite or diminishing source). Inputs to the model include chemical properties of the contaminant, saturated and unsaturated zone soil properties, and structural properties of the building.

This manual provides documentation and instructions for using the vapor intrusion model as provided in the accompanying spreadsheets.

Model results (both screening and advanced) are provided as either a risk-based soil or groundwater concentration, or as an estimate of the actual incremental risks associated with a user-defined initial concentration. That is to say that the model will reverse-calculate an "acceptable" soil or groundwater concentration given a user-defined risk level (i.e., target risk level or target hazard quotient), or the model may be used to forward-calculate an incremental cancer risk or hazard quotient based on an initial soil or groundwater concentration.

USER INPUTS

Limited input from the user is allowed in the screening version of the J&E model. User model inputs for the EZ-Serve Gas Station vapor intrusion analysis summarized in Table E-1 are discussed in the following:

> **Groundwater Concentration (EZ-Serve Gas Station):** Shallow groundwater water concentration data obtained in March, 2010, was evaluated as the basis for estimating representative VOC concentrations in groundwater beneath the EZ-Serve Gas Station property. VOC concentrations

[1] http://www.epa.gov/oswer/riskassessment/airmodel/johnson_ettinger.htm
[2] http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/pdf/resair_sl_table_run_NOV2011.pdf

from monitoring wells FMW-1 and MW-11 were averaged in order to provide a representative groundwater concentration scenario for this location. Several monitoring wells surrounding the EZ-Serve Gas Station have or had free product (petroleum) and did not provide representative (or any) chlorinated compound data. Results of individual VOC constituent risk used to determine the cumulative incremental cancer and Hazard Quotient risk for the EZ-Serve Gas Station are shown in Table E-2.

Soil Profile SCS Classifications: As shown in Table E-1, soil boring FMW-1 was used to obtain the depth to groundwater, the soil characterization at the groundwater interface (Silty Clay) and the vadose zone lithology (Sand). These data have some of the largest influence on model results for the GW-SCREEN module used for this analysis.

Model Defaults: Default values for air exchange, slab thickness, air entry rate, and other structure variables were used. Although site specific building structure data could be used, the results from the modeling would likely not change significantly due to the model assumptions for human exposure and associated pathways of exposure. This is due to the inherent "exposure per unit volume" composition of the model. More advanced modeling would require a significant amount of structure measurement, including estimates of floor crack area, actual air exchange rates for this specific dry cleaner, and pressure differentials between inside and outside the building.

RESULTS AND CONCLUSION

Modeling of VOC vapor intrusion was conducted for EZ-Serve Gas Station property using the standardized Johnson & Ettinger convection/diffusion model Vesion 3.1 (2004), and updated with the November 2011 RSLT. The groundwater VOC concentrations utilized summarized in Tables E-2.

The conclusion for the EZ-Serve Gas Station property vapor intrusion analysis is that the incremental cancer risk, as calculated using very conservative model input assumptions, is below the HSRA standard of one-per-hundred thousand, and the calculated Hazard Quotient is below the threshold of one (1.0).

Model limitations are a significant factor in drawing conclusions from this analysis.

MODEL LIMITATION

The simplified Johnson & Ettinger one-dimensional convection and diffusion model used in the calculations is useful for screening under ideal conditions using site specific data. The Fashion Care site does not offer ideal conditions and exhibits the potential for significant variability in key simulation data inputs. Alternative site specific data inputs and assumptions could also be used to generate much different results. The conceptual model upon which this analysis was conducted may require revision in the future in order to improve the vapor intrusion predicative capability.

Tables
Model Input and Output

Table E-1
Input Parameters - Vapor Intrusion Modeling
GA-AL Commercial Investments Property
Johnson-Ettinger Groundwater Scenario
February 2011

Parameter	Symbol	Units	Value	Comment
User Input (Groundwater Screening Model Version 3.1, 2004)				
Gas Station GW Constituents	Cw	ug/L		See Table E-2 (FMW1 & MW-11)
Woded Lot GW Constituents	Cw	ug/L		See Table E-3 (FMW5, FMW6, FMW11, MW14)
Slab Thickness	L_F	cm	15	Only 15 or 200 Allowed In Model - 15 Used
Depth to Water	L_{WT}	cm	549	Soil Boring Log FMW-1
Average Media Temperature	T_S	^oC	19.4	Soil and Groundwater Annual Average Temp
Average Vapor Intrusion Rate	Q_{soil}	L/min	NA	Calculated by Model
Model Inputs Used for Variable Calculations or Assumptions				
Soil Type At Water Table	SCS	n/a	SIC	Silty Clay - Soil Boring Log FMW-1
Soil Type In Vadose Zone	SCS	n/a	S	Sand - Soil Boring Log FMW-1
Soil Constantes Per SCS Code	Automatic Paramerter Lookup Function			Tabulated in VLOOKUP Sheet of Model
Vadose Zone Vapor Permeability	K_V	cm^2		Model Calculation Used
Target Risk (Carcinogens)	TR	n/a	1.0E-05	HSRA based allowable
Target Hazard Quotient (Non-Cancer)	THQ	n/a	1.0	Allowable Hazard Quotient for RfC
Averaging Time - Carcinogens	AT_C	yrs	70	EPA Recommended Per Model Guidance
Averaging Time - Noncarcinogens	AT_{NC}	yrs	30	EPA Recommended Per Model Guidance
Exposure Duration	ED	yr	30	EPA Recommended Per Model Guidance
Exposure Frequency	EF	days/yr	350	EPA Recommended Per Model Guidance

EZ-Serve Gas Station (Tax Parcel 18-343-13-001)		
Cummulative Risk - Hazard Quotient	1.1E-01	CummulativeToxicity All Detected VOCs
Cummulative Risk - Cancer	5.5E-06	Cummulative Cancer All Detected VOCs

Revised February 2012

Table E-2
Model Results - Vapor Intrusion Modeling
GA-AL Commercial Investments Property
Johnson-Ettinger Groundwater Scenario

Groundwater Constituents	FMW-1	MW-11	Average	CAS No.	RISK FACTOR	
	(mg/L)	(mg/L)	(mg/L)	(VLOOKUP)	Cancer	Hazard
Trichloroethene	0.0034	0.016	0.0097	79016	2.9E-08	1.5E-02
Tetrachloroethene	0.006	0.026	0.016	127184	7.8E-09	1.7E-03
cis-1,2 Dichlorothene	0.024	0.021	0.0225	156592	NA	1.1E-03
trans-1,2 Dichlorethene	0.0025	0.0011	0.0018	156605	NA	8.7E-05
Vinyl Chloride	0.001	0.001	0.001	75014	1.9E-08	1.0E-04
Benzene	1.2	0.047	0.62	71432	4.5E-06	4.5E-02
Toluene	3.4	0.0058	1.70	108883	NA	9.7E-03
Ethylebenzene	0.6	0.017	0.31	100414	7.4E-07	6.9E-04
total-Xylenes (as P-)	2.34	0.0084	1.17	106423	NA	2.6E-02
Methylcyclohexane	0.068	0.0012	0.035	108872	NA	2.7E-04
Isopropyl Benzene	0.027	0.001	0.014	98828	NA	1.0E-04
MTBE	3.2	0.0041	1.60	1634044	1.7E-07	5.0E-04
Cyclohexane (as Hexane)	0.1	0.0025	0.051	110827	NA	8.6E-03
Cummulative Risk					**5.5E-06**	**1.1E-01**

Notes:

1) Unit risk factor (URF) and Reference Concentration (RfC) updated based on November 2011 RSLT.
2) Values in yellow are 1/2 the reporting limit.
3) N/A for Cancer Risk Factor indicates compound does not have an IUR value in the RSLT.
4) FMW-1 sampled 3/8/2010. MW-11 sampled 3/11/2010.

Revised February 2012

Table E-1
Input Parameters - Vapor Intrusion Modeling
GA-AL Commercial Investments Property
Johnson-Ettinger Groundwater Scenario
February 2011

Parameter	Symbol	Units	Value	Comment
User Input (Groundwater Screening Model Version 3.1, 2004)				
Gas Station GW Constituents	Cw	ug/L		See Table E-2 (FMW1 & MW-11)
Woded Lot GW Constituents	Cw	ug/L		See Table E-3 (FMW5, FMW6, FMW11, MW14)
Slab Thickness	L_F	cm	15	Only 15 or 200 Allowed In Model - 15 Used
Depth to Water	L_{WT}	cm	549	Soil Boring Log FMW-1
Average Media Temperature	T_S	^oC	19.4	Soil and Groundwater Annual Average Temp
Average Vapor Intrusion Rate	Q_{soil}	L/min	NA	Calculated by Model
Model Inputs Used for Variable Calculations or Assumptions				
Soil Type At Water Table	SCS	n/a	SIC	Silty Clay - Soil Boring Log FMW-1
Soil Type In Vadose Zone	SCS	n/a	S	Sand - Soil Boring Log FMW-1
Soil Constantes Per SCS Code	Automatic Paramerter Lookup Function			Tabulated in VLOOKUP Sheet of Model
Vadose Zone Vapor Permeability	K_V	cm^2		Model Calculation Used
Target Risk (Carcinogens)	TR	n/a	1.0E-05	HSRA based allowable
Target Hazard Quotient (Non-Cancer)	THQ	n/a	1.0	Allowable Hazard Quotient for RfC
Averaging Time - Carcinogens	AT_C	yrs	70	EPA Recommended Per Model Guidance
Averaging Time - Noncarcinogens	AT_{NC}	yrs	30	EPA Recommended Per Model Guidance
Exposure Duration	ED	yr	30	EPA Recommended Per Model Guidance
Exposure Frequency	EF	days/yr	350	EPA Recommended Per Model Guidance

EZ-Serve Gas Station (Tax Parcel 18-343-13-001)		
Cummulative Risk - Hazard Quotient	1.1E-01	CummulativeToxicity All Detected VOCs
Cummulative Risk - Cancer	5.5E-06	Cummulative Cancer All Detected VOCs

Revised February 2012

Table E-2
Model Results - Vapor Intrusion Modeling
GA-AL Commercial Investments Property
Johnson-Ettinger Groundwater Scenario

Groundwater Constituents	FMW-1	MW-11	Average	CAS No.	RISK FACTOR	
	(mg/L)	(mg/L)	(mg/L)	(VLOOKUP)	Cancer	Hazard
Trichloroethene	0.0034	0.016	0.0097	79016	2.9E-08	1.5E-02
Tetrachloroethene	0.006	0.026	0.016	127184	7.8E-09	1.7E-03
cis-1,2 Dichlorothene	0.024	0.021	0.0225	156592	NA	1.1E-03
trans-1,2 Dichlorethene	0.0025	0.0011	0.0018	156605	NA	8.7E-05
Vinyl Chloride	0.001	0.001	0.001	75014	1.9E-08	1.0E-04
Benzene	1.2	0.047	0.62	71432	4.5E-06	4.5E-02
Toluene	3.4	0.0058	1.70	108883	NA	9.7E-03
Ethylebenzene	0.6	0.017	0.31	100414	7.4E-07	6.9E-04
total-Xylenes (as P-)	2.34	0.0084	1.17	106423	NA	2.6E-02
Methylcyclohexane	0.068	0.0012	0.035	108872	NA	2.7E-04
Isopropyl Benzene	0.027	0.001	0.014	98828	NA	1.0E-04
MTBE	3.2	0.0041	1.60	1634044	1.7E-07	5.0E-04
Cyclohexane (as Hexane)	0.1	0.0025	0.051	110827	NA	8.6E-03
Cummulative Risk					**5.5E-06**	**1.1E-01**

Notes:

1) Unit risk factor (URF) and Reference Concentration (RfC) updated based on November 2011 RSLT.
2) Values in yellow are 1/2 the reporting limit.
3) N/A for Cancer Risk Factor indicates compound does not have an IUR value in the RSLT.
4) FMW-1 sampled 3/8/2010. MW-11 sampled 3/11/2010.

Revised February 2012

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W ($\mu g/L$)	Chemical
71432	6.20E+02	Benzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
8.80E-02	9.80E-06	5.54E-03	25	7,342	353.24	562.16	5.89E+01	1.79E+03	7.8E-06	3.0E-02

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	8,025	4.27E-03	1.78E-01	1.78E-04	1.83E-02	4.16E-05	1.15E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	1.10E+05	0.10	9.96E+01	1.83E-02	4.00E+02	1.01E+59	1.27E-05	1.40E+00	7.8E-06	3.0E-02

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.79E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
4.5E-06	4.5E-02

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (μg/L)	Chemical
156592	2.25E+01	cis-1,2-Dichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.36E-02	1.13E-05	4.07E-03	25	7,192	333.65	544.00	3.55E+01	3.50E+03	0.0E+00	3.5E-02

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	7,639	3.18E-03	1.32E-01	1.78E-04	1.53E-02	4.45E-05	1.23E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	2.98E+03	0.10	9.96E+01	1.53E-02	4.00E+02	3.55E+70	1.36E-05	4.04E-02	NA	3.5E-02

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	3.50E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	1.1E-03

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

Cyclohexane modeled as Hexane using RfC for Cyclohexane

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (μg/L)	Chemical
110543	5.10E+01	Hexane

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
2.00E-01	7.77E-06	1.66E+00	25	6,895	341.70	508.00	4.34E+01	1.24E+01	0.0E+00	6.0E+00

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	7,612	1.30E+00	5.42E+01	1.78E-04	4.16E-02	6.35E-05	1.76E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	2.76E+06	0.10	9.96E+01	4.16E-02	4.00E+02	9.17E+25	1.94E-05	5.35E+01	NA	6.0E+00

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.24E+04	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	8.6E-03

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (μg/L)	Chemical
100414	3.10E+02	Ethylbenzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.50E-02	7.80E-06	7.86E-03	25	8,501	409.34	617.20	3.63E+02	1.69E+02	2.5E-06	1.0E+00

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	10,047	5.68E-03	2.37E-01	1.78E-04	1.56E-02	3.20E-05	8.85E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	7.34E+04	0.10	9.96E+01	1.56E-02	4.00E+02	1.71E+69	9.76E-06	7.16E-01	2.5E-06	1.0E+00

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.69E+05	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
7.4E-07	6.9E-04

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (μg/L)	Chemical
98828	1.40E+01	Cumene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
6.50E-02	7.10E-06	1.46E-02	25	10,335	425.56	631.10	4.89E+02	6.13E+01	0.0E+00	4.0E-01

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	12,512	9.75E-03	4.06E-01	1.78E-04	1.35E-02	2.50E-05	6.91E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	5.68E+03	0.10	9.96E+01	1.35E-02	4.00E+02	7.67E+79	7.63E-06	4.33E-02	NA	4.0E-01

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	6.13E+04	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	1.0E-04

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (μg/L)	Chemical
108872	3.50E+01	Methylcyclohexane

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350
Used to calculate risk-based groundwater concentration.					

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.35E-02	8.52E-06	1.03E-01	25	7,474	373.90	572.20	7.85E+01	1.40E+01	0.0E+00	3.0E+00

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	8,480	7.82E-02	3.26E+00	1.78E-04	1.53E-02	2.40E-05	6.64E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	1.14E+05	0.10	9.96E+01	1.53E-02	4.00E+02	4.43E+70	7.33E-06	8.36E-01	NA	3.0E+00

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.40E+04	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	2.7E-04

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (μg/L)	Chemical
1634044	1.60E+03	MTBE

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
1.02E-01	1.05E-05	6.23E-04	25	6,678	328.30	497.10	7.26E+00	5.10E+04	2.6E-07	3.0E+00

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	7,173	4.94E-04	2.06E-02	1.78E-04	2.13E-02	1.59E-04	4.35E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	3.30E+04	0.10	9.96E+01	2.13E-02	4.00E+02	5.10E+50	4.77E-05	1.57E+00	2.6E-07	3.0E+00

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	5.10E+07	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
1.7E-07	5.0E-04

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W ($\mu g/L$)	Chemical
127184	1.60E+01	Tetrachloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.20E-02	8.20E-06	1.84E-02	25	8.288	394.40	620.20	1.55E+02	2.00E+02	2.6E-07	4.0E-02

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	9,458	1.35E-02	5.63E-01	1.78E-04	1.50E-02	2.65E-05	7.33E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	9.01E+03	0.10	9.96E+01	1.50E-02	4.00E+02	1.31E+72	8.09E-06	7.29E-02	2.6E-07	4.0E-02

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	2.00E+05	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
7.8E-09	1.7E-03

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W ($\mu g/L$)	Chemical
79016	9.70E+00	Trichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.90E-02	9.10E-06	1.03E-02	25	7,505	360.36	544.20	1.66E+02	1.47E+03	2.3E-06	2.0E-03

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	8,440	7.82E-03	3.26E-01	1.78E-04	1.64E-02	3.20E-05	8.85E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	3.16E+03	0.10	9.96E+01	1.64E-02	4.00E+02	5.34E+65	9.77E-06	3.09E-02	2.3E-06	2.0E-03

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.47E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
2.9E-08	1.5E-02

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based groundwater concentration is based on a route-to-route extrapolation.

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (μg/L)	Chemical
108883	1.70E+03	Toluene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
8.70E-02	8.60E-06	6.62E-03	25	7,930	383.78	591.79	1.82E+02	5.26E+02	0.0E+00	4.0E-01

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	9,052	4.94E-03	2.06E-01	1.78E-04	1.81E-02	3.80E-05	1.05E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	3.50E+05	0.10	9.96E+01	1.81E-02	4.00E+02	4.83E+59	1.16E-05	4.06E+00	NA	4.0E-01

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	5.26E+05	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	9.7E-03

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (μg/L)	Chemical
106423	1.17E+03	p-Xylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.69E-02	8.44E-06	7.64E-03	25	8,525	411.52	616.20	3.89E+02	1.85E+02	0.0E+00	1.0E-01

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	10,138	5.51E-03	2.29E-01	1.78E-04	1.60E-02	3.35E-05	9.27E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	2.68E+05	0.10	9.96E+01	1.60E-02	4.00E+02	3.33E+67	1.02E-05	2.75E+00	NA	1.0E-01

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	1.85E+05	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	2.6E-02

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W ($\mu g/L$)	Chemical
156605	1.80E+00	trans-1,2-Dichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.07E-02	1.19E-05	9.36E-03	25	6,717	320.85	516.50	5.25E+01	6.30E+03	0.0E+00	6.0E-02

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	7,036	7.45E-03	3.10E-01	1.78E-04	1.47E-02	3.19E-05	8.83E-05

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	5.59E+02	0.10	9.96E+01	1.47E-02	4.00E+02	2.78E+73	9.75E-06	5.45E-03	NA	6.0E-02

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	6.30E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	8.7E-05

MESSAGE SUMMARY BELOW:

END

GW-SCREEN
Version 3.1; 02/04

Reset to Defaults

CALCULATE RISK-BASED GROUNDWATER CONCENTRATION (enter "X" in "YES" box)

YES [ ]

OR

CALCULATE INCREMENTAL RISKS FROM ACTUAL GROUNDWATER CONCENTRATION
(enter "X" in "YES" box and initial groundwater conc. below)

YES [X]

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Initial groundwater conc., C_W (μg/L)	Chemical
75014	1.00E+00	Vinyl chloride (chloroethene)

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Depth below grade to water table, L_{WT} (cm)	ENTER SCS soil type directly above water table	ENTER Average soil/ groundwater temperature, T_S (^oC)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
15	549	SIC	19.4	

MORE ↓

ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vandose zone soil vapor permeability, k_v (cm^2)	ENTER Vadose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^V (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)
S			S	1.66	0.43	0.054

MORE ↓

ENTER Target risk for carcinogens, TR (unitless)	ENTER Target hazard quotient for noncarcinogens, THQ (unitless)	ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
1.0E-06	1	70	30	30	350

Used to calculate risk-based groundwater concentration.

ABC

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
1.06E-01	1.23E-05	2.69E-02	25	5,250	259.25	432.00	1.86E+01	8.80E+03	4.4E-06	1.0E-01

END

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Thickness of capillary zone, L_{cz} (cm)	Total porosity in capillary zone, n_{cz} (cm^3/cm^3)	Air-filled porosity in capillary zone, $\theta_{a,cz}$ (cm^3/cm^3)	Water-filled porosity in capillary zone, $\theta_{w,cz}$ (cm^3/cm^3)	Floor-wall seam perimeter, X_{crack} (cm)
534	0.376	0.003	1.01E-07	0.998	1.01E-07	192.31	0.481	0.057	0.424	4,000

Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. groundwater temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. groundwater temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. groundwater temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Capillary zone effective diffusion coefficient, D^{eff}_{cz} (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)
1.69E+04	1.00E+06	4.00E-04	15	4,894	2.30E-02	9.58E-01	1.78E-04	2.21E-02	3.68E-05	1.02E-04

Diffusion path length, L_d (cm)	Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
534	15	9.58E+02	0.10	9.96E+01	2.21E-02	4.00E+02	9.68E+48	1.12E-05	1.08E-02	4.4E-06	1.0E-01

RISK-BASED GROUNDWATER CONCENTRATION CALCULATIONS:

Indoor exposure groundwater conc., carcinogen (µg/L)	Indoor exposure groundwater conc., noncarcinogen (µg/L)	Risk-based indoor exposure groundwater conc., (µg/L)	Pure component water solubility, S (µg/L)	Final indoor exposure groundwater conc., (µg/L)
NA	NA	NA	8.80E+06	NA

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
1.9E-08	1.0E-04

MESSAGE SUMMARY BELOW:

END

INTRODUCTION

This technical summary describes a vapor intrusion analysis of volatile organic compounds (VOCs) into the structure at Parcel #18-343-13-005, Southern Automatic Company property (Dentist Office), located adjacent to the Fashion Care Dry Cleaner at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia (HSI 10786). The Johnson & Ettinger transport model (J&E), release 3.1, was obtained directly from the EPA download page and updated with values from the November 2011 Regional Screening Level Table (RSLT). Tetrachloroethylene was updated to match the February 10, 2012 update from EPA. The J&E Model was then used to estimate the incremental cancer risk and Hazard Quotient from all detected VOCs based on sub-foundation soil vapor sampling conducted on May 31, 2011. For reference, the J&E Model[1] and November 2011 RSLT[2] can be obtained from current USEPA Websites. The following discussion is obtained directly from the J&E User's Guide:

The J&E Model is a one-dimensional analytical solution to convective and diffusive vapor transport into indoor spaces and provides an estimated attenuation coefficient that relates the vapor concentration in the indoor space to the vapor concentration at the source of contamination. The model is constructed as both a steady-state solution to vapor transport (infinite or non-diminishing source) and as a quasi-steady-state solution (finite or diminishing source). Inputs to the model include chemical properties of the contaminant, saturated and unsaturated zone soil properties, and structural properties of the building.

This manual provides documentation and instructions for using the vapor intrusion model as provided in the accompanying spreadsheets.

Model results (both screening and advanced) are provided as either a risk-based soil or groundwater concentration, or as an estimate of the actual incremental risks associated with a user-defined initial concentration. That is to say that the model will reverse-calculate an "acceptable" soil or groundwater concentration given a user-defined risk level (i.e., target risk level or target hazard quotient), or the model may be used to forward-calculate an incremental cancer risk or hazard quotient based on an initial soil or groundwater concentration.

In addition to the finite and infinite source models referred to above, two models (are included) that allow the user to input empirical soil gas concentration and sampling depth information directly into the spreadsheets. These models will subsequently estimate the resulting steady-state indoor air concentrations and associated health risks.

USER INPUTS

Limited input from the user is allowed in the screening version of the J&E model. User model inputs for the Dentist Office property vapor intrusion analysis, associated with Fashion Care site, are summarized in Table D-1 are discussed in the following:

> **Soil Vapor Concentration:** Shallow soil gas VOC concentration data were obtained beneath the foundation slab of the Dentist Office building on March 31, 2011. Samples were obtained approximately four inches below the concrete floor at sample locations VS-1 and VS-2. All detected VOC concentrations from this event were used in the J&E calculation to obtain a cumulative risk factor for cancer and hazard. 4-Ethyltoluene was included in the model as

[1] http://www.epa.gov/oswer/riskassessment/airmodel/johnson_ettinger.htm
[2] http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm

tert-butylbenzene since the J&E compound database (VLOOKUP) does not specifically include this gasoline-related hydrocarbon.

Soil Profile SCS Classifications: As shown in Table D-1, soil boring FMW-1 was used to obtain the soil characterization of the vadose zone lithology (primarily Sand immediately below the slab). Due to proximity to surface, these data have minimal influence on model results for the SG-SCREEN module used for this analysis.

Model Defaults: Default values for air exchange, slab thickness, air entry rate, and other structure variables were used. Although site specific building structure data could be used, the results from the modeling would likely not change significantly due to the model assumptions for human exposure and associated pathways of exposure. This is due to the inherent "exposure per unit volume" composition of the model. More advanced modeling would require a significant amount of structure measurement, including estimates of floor crack area, actual air exchange rates for this specific dry cleaner, and pressure differentials between inside and outside the building.

RESULTS AND CONCLUSION

Modeling of cumulative VOC vapor intrusion was conducted for the Dentist Office (Parcel #18-343-13-005 Southern Automatic Company Property), associated with the Fashion Care site, using the updated Johnson & Ettinger convection/diffusion model as executed in Excel spread sheet format and distributed by USEPA, Version 3.1 (2004). Two soil vapor samples collected directly beneath the floor were used to obtain data input for the soil gas screening model discussed previously. Individual VOC constituents used to calculate the cumulative risk factors are summarized in Table D-2.

Results from the vapor intrusion analysis indicate a cumulative human health risk below the HSRA standard of one incremental cancer in a population of 100,000, and below the Hazard Quotient threshold of 1.0. This calculation is performed under conservative exposure assumptions.

Model limitations are a significant factor in drawing conclusions from this analysis.

MODEL LIMITATION

The simplified Johnson & Ettinger one-dimensional convection and diffusion model used in the calculations is useful for screening under ideal conditions using site specific data. The Fashion Care site does not offer ideal conditions and exhibits the potential for significant variability in key simulation data inputs. Alternative site specific data inputs and assumptions could also be used to generate much different results. The conceptual model upon which this analysis was conducted may require revision in the future in order to improve the vapor intrusion predicative capability.

Tables
Model Inputs and Outputs

Table D-1
Input Parameters - Vapor Intrusion Modeling
Parcel #18-343-13-005 Southern Automatic Company Property
Johnson-Ettinger Soil Gas Scenario

Parameter	Symbol	Units	Value	Comment
User Input (Soil Gas Screening Model Version 3.1, 2004)				
See Table D-2 For Vapor Constituents	Cg	mg/M^3		SEE TABLE D-2
Slab Thickness	L_F	cm	15	Only 15 or 200 Allowed In Model - 15 Used
Depth to SG sample	L_{WT}	cm	24	Atlas Geo-Sampling Drilling Notes
Average Media Temperature	T_S	^oC	13	Soil and Groundwater Annual Average Temp
Average Vapor Intrusion Rate	Q_{soil}	L/min	5	50th Percentile For Climate Region 4
Model Inputs Used for Variable Calculations or Assumptions				
Soil Type At Water Table	SCS	n/a	S	Sand - Subgrade Surface
Soil Type In Vadose Zone	SCS	n/a	S	Sand - Soil Boring Log FMW-1
Soil Constantes Per SCS Code	Automatic Paramerter Lookup Function			Tabulated in VLOOKUP Sheet of Model
Vadose Zone Vapor Permeability	K_V	cm^2		Model Calculation Used
Target Risk (Carcinogens)	TR	n/a	1.0E-05	HSRA based allowable
Target Hazard Quotient (Non-Cancer)	THQ	n/a	1.0	Allowable Hazard Quotient for RfC
Averaging Time - Carcinogens	AT_C	yrs	70	EPA Recommended Per Model Guidance
Averaging Time - Noncarcinogens	AT_{NC}	yrs	30	EPA Recommended Per Model Guidance
Exposure Duration	ED	yr	30	EPA Recommended Per Model Guidance
Exposure Frequency	EF	days/yr	350	EPA Recommended Per Model Guidance

Model Results - Dentist Office Parcel #18-343-13-005 Southern Automatic Company Property		**Comments**
Cummulative Risk - Hazard Quotient	6.3E-02	CummulativeToxicity All Detected VOCs
Cummulative Risk - Cancer	1.8E-06	Cummulative Cancer All Detected VOCs

Table D-2
Results - Vapor Intrusion Modeling
Parcel #18-343-13-005 Southern Automatic Company Property
Johnson-Ettinger Soil Gas Scenario

Vapor Constituent	SAMPLE NO.		CAS No.	RISK FACTOR	
	VS-1	VS-2	(VLOOKUP)	Cancer	Hazard
Acetone	**240**	210	67641	N/A	4.2E-05
Carbon Disulfide	**43**	<6.3	75150	N/A	3.3E-04
Chloroform	**12**	<5.0	67663	**6.3E-07**	2.6E-04
Benzene	**57**	9.1	71432	**1.0E-06**	1.0E-02
Trichloroethene	**9.2**	<5.5	79016	**4.8E-08**	2.4E-02
Tetrachloroethene	**15**	10	127184	**8.7E-09**	2.0E-03
Toluene	**130**	48	108883	N/A	1.4E-04
Ethylebenzene	**21**	13	100414	**1.2E-07**	1.1E-04
o-Xylene	**16**	15	95476	N/A	8.5E-04
M,P-Xylene (as P-)	21	**38**	106423	N/A	2.0E-03
Styrene	**7.4**	6.5	100425	N/A	3.9E-05
4-Ethyltoluene	5.2	<5.0	N/A	N/A	1.9E-04
1,3,5-Trimethylbenzene	**6.2**	5.7	108678	N/A	6.4E-03
1,2,4-Trimethylbenzene	21	**23**	95636	N/A	1.7E-02
Cummulative Risk				**1.8E-06**	**6.3E-02**

Notes:

1) Inhalation Unit Risk Factor (IUR) and Reference Concentration (RfC) from Regional Screening Table (November 2011).
2) 4-Ethyltoluene is not in J&E compound data and calculated as tert-butylbenzene.
3) Risk Factor calculated on the highest detection in either sample VS-1 or VS-2.
4) N/A for Cancer Risk Factor indicates compound has no inhalation cancer factor in RSLT.

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
98066	5.20E+00			tert-Butylbenzene

4-Ethyltoluene modeled as tert-Butylbenzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
5.65E-02	8.02E-06	1.19E-02	25	8.980	442.10	1220.00	0.0E+00	1.4E-01	134.22

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	5.20E+00	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	9.466	8.75E-03	3.64E-01	1.78E-04	9.13E-03	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	5.20E+00	0.10	9.95E+01	9.13E-03	4.00E+02	2.07E+118	5.35E-03	2.78E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	1.4E-01

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	1.9E-04

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
95636	2.30E+01			1,2,4-Trimethylbenzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
6.06E-02	7.92E-06	6.14E-03	25	9.369	442.30	649.17	0.0E+00	7.0E-03	120.20

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	2.30E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	11,574	4.23E-03	1.76E-01	1.78E-04	9.80E-03	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	2.30E+01	0.10	9.95E+01	9.80E-03	4.00E+02	2.04E+110	5.38E-03	1.24E-01

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	7.0E-03

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	1.7E-02

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
108678	6.20E+00			1,3,5-Trimethylbenzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
6.02E-02	8.67E-06	5.87E-03	25	9.321	437.89	637.25	0.0E+00	5.0E-03	120.20

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	6.20E+00	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	11,556	4.04E-03	1.68E-01	1.78E-04	9.73E-03	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	6.20E+00	0.10	9.95E+01	9.73E-03	4.00E+02	1.11E+111	5.38E-03	3.34E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	5.0E-03

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	6.4E-03

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
67641	2.40E+02			Acetone

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
1.24E-01	1.14E-05	3.87E-05	25	6.955	329.20	508.10	0.0E+00	3.1E+01	58.08

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	2.40E+02	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	7.442	3.04E-05	1.27E-03	1.78E-04	2.00E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	2.40E+02	0.10	9.95E+01	2.00E-02	4.00E+02	7.94E+53	5.62E-03	1.35E+00

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	3.1E+01

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	4.2E-05

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
71432	5.70E+01			Benzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
8.80E-02	9.80E-06	5.54E-03	25	7.342	353.24	562.16	7.8E-06	3.0E-02	78.11

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	5.70E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	8.025	4.27E-03	1.78E-01	1.78E-04	1.42E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	5.70E+01	0.10	9.95E+01	1.42E-02	4.00E+02	9.20E+75	5.53E-03	3.15E-01

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.8E-06	3.0E-02

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
1.0E-06	1.0E-02

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
75150	4.30E+01			Carbon disulfide

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
1.04E-01	1.00E-05	3.02E-02	25	6.391	319.00	552.00	0.0E+00	7.0E-01	76.13

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	4.30E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	6.609	2.44E-02	1.02E+00	1.78E-04	1.68E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	4.30E+01	0.10	9.95E+01	1.68E-02	4.00E+02	1.89E+64	5.58E-03	2.40E-01

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	7.0E-01

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	3.3E-04

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
67663	1.20E+01			Chloroform

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
1.04E-01	1.00E-05	3.66E-03	25	6.988	334.32	536.40	2.3E-05	2.4E-01	119.38

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	1.20E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	7,456	2.88E-03	1.20E-01	1.78E-04	1.68E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	1.20E+01	0.10	9.95E+01	1.68E-02	4.00E+02	1.89E+64	5.58E-03	6.69E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
2.3E-05	2.4E-01

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
6.3E-07	2.6E-04

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
100414	2.10E+01			Ethylbenzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.50E-02	7.80E-06	7.86E-03	25	8.501	409.34	617.20	2.5E-06	1.0E+00	106.17

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	2.10E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	10,047	5.68E-03	2.37E-01	1.78E-04	1.21E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	2.10E+01	0.10	9.95E+01	1.21E-02	4.00E+02	1.35E+89	5.47E-03	1.15E-01

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
2.5E-06	1.0E+00

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
1.2E-07	1.1E-04

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
106423	3.80E+01			p-Xylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.69E-02	8.44E-06	7.64E-03	25	8.525	411.52	616.20	0.0E+00	1.0E-01	106.17

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	3.80E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	10,138	5.51E-03	2.29E-01	1.78E-04	1.24E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	3.80E+01	0.10	9.95E+01	1.24E-02	4.00E+02	8.49E+86	5.48E-03	2.08E-01

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	1.0E-01

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	2.0E-03

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
95476	1.60E+01			o-Xylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
8.70E-02	1.00E-05	5.18E-03	25	8.661	417.60	630.30	0.0E+00	1.0E-01	106.17

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	1.60E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	10,298	3.71E-03	1.55E-01	1.78E-04	1.41E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	1.60E+01	0.10	9.95E+01	1.41E-02	4.00E+02	6.87E+76	5.52E-03	8.84E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	1.0E-01

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	8.5E-04

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
127184	1.50E+01			Tetrachloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.20E-02	8.20E-06	1.84E-02	25	8.288	394.40	620.20	2.6E-07	4.0E-02	165.83

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	1.50E+01	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	9.458	1.35E-02	5.63E-01	1.78E-04	1.16E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	1.50E+01	0.10	9.95E+01	1.16E-02	4.00E+02	7.00E+92	5.45E-03	8.18E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
2.6E-07	4.0E-02

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
8.7E-09	2.0E-03

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
100425	7.40E+00			Styrene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.10E-02	8.00E-06	2.74E-03	25	8.737	418.31	636.00	0.0E+00	1.0E+00	104.15

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	7.40E+00	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	10,346	1.96E-03	8.18E-02	1.78E-04	1.15E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	7.40E+00	0.10	9.95E+01	1.15E-02	4.00E+02	1.42E+94	5.45E-03	4.03E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	1.0E+00

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	3.9E-05

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
79016	9.20E+00			Trichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.90E-02	9.10E-06	1.03E-02	25	7.505	360.36	544.20	2.3E-06	2.0E-03	131.39

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	9.20E+00	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	8,440	7.82E-03	3.26E-01	1.78E-04	1.28E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	9.20E+00	0.10	9.95E+01	1.28E-02	4.00E+02	4.15E+84	5.49E-03	5.05E-02

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
2.3E-06	2.0E-03

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
4.8E-08	2.4E-02

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

END

DATA ENTRY SHEET
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

SG-SCREEN
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_a ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_a (ppmv)	Chemical
108883	1.30E+02			Toluene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^0C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
15	24	19.4	S		

MORE ↓

ENTER Vandose zone SCS soil type (Lookup Soil Parameters)	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
S	1.66	0.375	0.054	

MORE ↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
8.70E-02	8.60E-06	6.62E-03	25	7.930	383.78	591.79	0.0E+00	5.0E+00	92.14

END

CALCULATIONS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9	0.321	0.003	1.01E-07	0.998	1.01E-07	4.000	1.30E+02	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D^{eff}_V (cm^2/s)	Diffusion path length, L_d (cm)
1.00E+06	4.00E-04	15	9.052	4.94E-03	2.06E-01	1.78E-04	1.41E-02	9

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
15	1.30E+02	0.10	9.95E+01	1.41E-02	4.00E+02	6.87E+76	5.52E-03	7.18E-01

Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
NA	5.0E+00

END

RESULTS
VAPOR INTRUSION
Parcel #18-343-13-005, Southern Automatic Company Property
FASHION CARE (HSI 10786)

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	1.4E-04

MESSAGE SUMMARY BELOW:

END

Revised Type 5 Risk Reduction Standard Derivations

WINTER ENVIRONMENTAL

Table 1

Type 5 RRS for Groundwater and Soil: Construction and Utility Workers

Parameter	CAS No.	RRS Type 5 Soil		RRS Type 5 Groundwater	
		Construction Worker (mg/kg)	Utility Worker (mg/kg)	Construction Worker (mg/L)	Utility Worker (mg/L)
VOCs					
Acetone	67-64-1	145,576	1,039,832	84.3	602
2-butanone	78-93-3	43,685	312,037	14.3	102
1,1-Dichloroethane	75-34-3	13,037	3,725	12.7	3.62
1,1-dichloroethene	75-35-4	252	1,803	0.589	4.21
cis-1,2-dichloroethene	156-59-2	619	4,424	2.6	18.3
trans-1,2-dichloroethene	156-60-5	231	1,648	0.174	1.24
Tetrachloroethylene	127-18-4	142	1,016	0.11	0.82
Trichloroethelene	79-01-06	6.8	49	0.006	0.041
Vinyl Chloride	75-01-4	77.5	27	0.27	0.097

Table 2
Type 5 Risk Reduction Standards for Soil

Parameter		RfD_o (mg/kg-d)	RfD_i (mg/kg-d)	CSF_o $(mg/kg\text{-}d)^{-1}$	CSF_i $(mg/kg\text{-}d)^{-1}$	WOE	Construction Worker Calculated Goal (Nonc)	Construction Worker Calculated Goal (Carc)	Construction Worker Type 5 RRSs	Utility Worker Calculated Goal (Nonc)	Utility Worker Calculated Goal (Carc)	Utility Worker Type 5 RRSs
VOCs												
Acetone	v	9.00E-01	8.90E+00	NA	NA	ND	145,576	NA	145,576	1,039,832	NA	1,039,832
2-butanone	v	6.00E-01	1.43E+00	NA	NA	NA	43,685	NA	43,685.2	312,037	NA	312,037
1,1-Dichloroethane	v	2.00E-01	NA	5.70E-03	5.60E-03	C	61,939	13037.27	13,037.3	442,424	3724.94	3,725
1,1-dichloroethene	v	5.00E-02	5.81E-02	NA	NA	C	252	NA	252.4	1,803	NA	1,803
cis-1,2-dichloroethene	v	2.00E-03	NA	NA	NA	NA	619	NA	619.4	4,424	NA	4,424
trans-1,2-dichloroethene	v	2.00E-02	1.71E-02	NA	NA	NA	231	NA	230.8	1,648	NA	1,648
Tetrachloroethylene	v	6.00E-03	1.14E-02	2.10E-03	9.10E-04	ND	142	9440.22	142.2	1,016	2697.21	1,016
Trichloroethylene	v	5.00E-04	5.70E-04	4.60E-02	1.40E-02	ND	7	550.68	6.8	49	157.34	49
Vinyl Chloride	v	3.00E-03	2.85E-02	7.20E-01	1.54E-02	A	78	93.15	77.5	554	26.62	27

WOE = Weight of Evidence

Sourrce: Regional Secreening Level (RSL) Chemical-Specific Parameters Supporting Table November 2010. USEPA.

NA = Not available

Noncarcinogens:

$$C = \frac{HI*BW*AT*365\ days/year}{EF*ED*[(1/RfD_o*CF*IR)+(1/RfD_i*IR_a*(1/VF+1/PEF)]}$$

Carcinogens:

$$C = \frac{TR*BW*AT*365\ days/year}{EF*ED*[(CSF_o*IR*CF)+(CSF_i*IR_a*(1/VF+1/PEF)]}$$

where:	Construction Worker		Utility Worker
HI (Hazard Index)	1		1
BW = Body Weight (kg), adult	70		70
AT = Averaging Time (years), (adult/carc)	70		70
AT = Averaging Time (years), (adult/nonc)	1		25
EF = Exposure Frequency (days/year)	250		35
ED = Exposure Duration (years), adult	1		25
RfD_o = Oral Reference Dose	chemical-specific		chemical-specific
IR = Ingestion Rate (mg/day), adult	330		330
TR = Target Risk	1.00E-05	1.00E-04	1.00E-05
CSF_o = Oral Cancer Slope Factor	chemical-specific		chemical-specific
IR_a = Air Inhalation Rate (m^3/day)(adult)	20		20
1/PEF = Inv of Particulate Emission Factor (kg/m^3)	2.15983E-10		2.15983E-10
CF = Conversion Factor (kg/mg)	1.00E-06		1.00E-06
1/VF = Volatilization Factor (kg/m^3)	chemical-specific		chemical-specific
RfD_i = Inhalation Reference Dose	chemical -specific		chemical -specific
CSF_i = Inhalation Slope Factor	chemical -specific		chemical -specific

Table 3
Type 5 Groundwater Risk Reduction Standards

Parameter	RfDo (mg/kg-d)	RfDi (mg/kg-d)	CSFo (mg/kg-d)-1	CSFi (mg/kg-d)-1	WOE		Calculated Goal (Nonc) Construction Worker (mg/L)	Calculated Goal (Carc) Construction Worker (mg/L)	Type 5 GW RRS Construction Worker (mg/L)	Calculated Goal (Nonc) Utility Worker (mg/L)	Calculated Goal (Carc) Utility Worker (mg/L)	Type 5 GW RRS Utility Worker (mg/L)
VOCs												
Acetone	9.00E-01	8.90E+00	NA	NA	ND	v	84.3	NA	84.3	602	NA	602
2-butanone	6.00E-01	1.43E+00	NA	NA	NA	v	14.3	NA	14.3	102	NA	102
1,1-Dichloroethane	2.00E-01	NA	5.70E-03	5.60E-03	C	v	256	12.7	12.7	1,825	3.62	3.62
1,1-Dichloroethene	5.00E-02	5.81E-02	NA	NA	C	v	0.589	NA	0.589	4.21	NA	4.21
Cis-1,2-Dichloroethene	2.00E-03	NA	NA	NA	NA	v	2.6	NA	2.6	18.3	NA	18.3
Trans--1,2-Dichloroethene	2.00E-02	1.71E-02	NA	NA	NA	v	0.174	NA	0.174	1.24	NA	1.24
Tetrachloroethylene	6.00E-03	1.14E-02	2.10E-03	9.10E-04	ND	v	0.115	7.719	0.11	0.82	2.205	0.820
Trichloroethylene	5.00E-04	5.70E-04	4.60E-02	1.40E-02	ND	v	0.006	0.50	0.006	0.04	0.142	0.041
Vinyl Chloride	3.00E-03	2.85E-02	7.20E-01	1.54E-02	A	v	0.271	0.338	0.271	1.93	0.097	0.097

v= volatile compound
units = mg/L
Sourrce: Regional Secreening Level (RSL) Chemical-Specific Parameters Supporting Table November 2010. USEPA.
NA = Not available
WOE = Weight of evidence

Noncarcinogens:

$$C = \frac{HI*BW*AT*365\ days/year}{EF*ED*[(1/RfD_o*IR_w) + (1/RfD_i*K*IR_a)]}$$

Carcinogens:

$$C = \frac{TR*BW*AT*365\ days/year}{EF*ED*[(CSF_o*IR_w)+(CSFi*K*IRa)]}$$

where:	Construction Worker	Utility Worker
HI (Hazard Index)	1	1
BW = Body Weight (kg), adult	70	70
AT = Averaging Time (years), (adult/carc)	70	70
AT = Averaging Time (years), (adult/nonc)	1	25
EF = Exposure Frequency (days/year)	250	35
ED = Exposure Duration (years), adult	1	25
RfD_o = Oral Reference Dose	Chemical-specific	Chemical-specific
IRw = Ingestion Rate of Water (L/day), adult	0.08	0.08
K = Volatilization Factor (unitless)	0.5	0.5
IRa = Air Inhalation Rate (m3/day)(adult)	20	20
TR = Target Risk (unitles)	1.00E-05	1.00E-04 1.00E-05

Table 4
Soil-to-Air Volatilization Factor

Parameter		Di (cm^2/sec)	H' unitless	HLC (atm-m^3/mol)	Koc (cm^3/g)	VF (m^3/kg)
VOCs						
Acetone	v	1.059E-01	1.431E-03	3.500E-05	2.364E+00	6.70E+03
2-butanone	v	9.144E-02	2.326E-03	5.690E-05	4.510E+00	7.82E+03
1,1-Dichloroethane	v	8.364E-02	2.298E-01	5.620E-03	3.182E+01	2.11E+03
1,1-Dichloroethene	v	8.631E-02	1.067E+00	2.610E-02	3.182E+01	8.64E+02
cis-1,2-dichloroethene	v	7.360E-02	1.670E-01	4.073E-03	3.550E+01	2.83E+03
trans-1,2-dichloroethene	v	8.761E-02	1.668E-01	4.080E-03	3.960E+01	2.74E+03
Tetrachloroethylene	v	5.047E-02	7.236E-01	1.770E-02	9.494E+01	2.64E+03
Trichloroethylene	v	6.866E-02	4.027E-01	9.850E-03	6.070E+01	2.44E+03
Vinyl Chloride	v	1.071E-01	1.137E+00	2.780E-02	2.173E+01	5.81E+02

Sourrce: Regional Secreening Level (RSL) Chemical-Specific Parameters Supporting Table November 2010. USEPA.

Derivation Of VF Values (Soil-to-Air Volatilization Factor):

$$VF(m^3/kg) = \frac{(LS \times V \times DH)}{A} \times \frac{(p \times a \times T)^{1/2}}{(2 \times D_{ei} \times E \times K_{as} \times 10^{-3}\ kg/g)}$$

where:

LS = length of side of contaminated area (m):	45
V = wind speed in mixing zone (m/s):	2.25
DH = diffusion height (m):	2
A = area of contamination (cm^2)	2.03E+07
p = pi:	3.14159265
a = (cm^2/s):	$(D_{ei} \times E)/(E + (rs \times ((1-E)/K_{as})))$
T = exposure interval (s), industrial:	7.88E+08
r_s = density of soil solids (g/cm^3):	2.65
OC = soil organic carbon content fraction (unitless):	0.02
D_{ei} = effective diffusivity (cm^2/s):	$D_i \times E^{0.33}$
D_i = molecular diffusivity (cm^2/s):	chemical-specific
E = total soil porosity (unitless):	0.35
K_{as} = soil/air partition coefficient (g soil/cm^3 air):	$(H/K_d) \times 41$
H = Henry's law constant (atm-m^3/mol):	chemical-specific
K_d = soil-water partition coefficient (cm^3/g):	$K_{oc} \times OC$
K_{oc} = organic carbon partition coefficient (cm^3/g):	chemical-specific

m = meter
s = second
cm = centimeter
g = gram =
atm-m3/mol = atmospheres-cubic meters per mole

Table 2
Type 5 Risk Reduction Standards for Soil

Parameter		RfD_o (mg/kg-d)	RfD_i (mg/kg-d)	CSF_o $(mg/kg\text{-}d)^{-1}$	CSF_i $(mg/kg\text{-}d)^{-1}$	WOE	Construction Worker Calculated Goal (Nonc)	Construction Worker Calculated Goal (Carc)	Construction Worker Type 5 RRSs	Utility Worker Calculated Goal (Nonc)	Utility Worker Calculated Goal (Carc)	Utility Worker Type 5 RRSs
VOCs												
Acetone	v	9.00E-01	8.90E+00	NA	NA	ND	145,576	NA	145,576	1,039,832	NA	1,039,832
2-butanone	v	6.00E-01	1.43E+00	NA	NA	NA	43,685	NA	43,685.2	312,037	NA	312,037
1,1-Dichloroethane	v	2.00E-01	NA	5.70E-03	5.60E-03	C	61,939	13037.27	13,037.3	442,424	3724.94	3,725
1,1-dichloroethene	v	5.00E-02	5.81E-02	NA	NA	C	252	NA	252.4	1,803	NA	1,803
cis-1,2-dichloroethene	v	2.00E-03	NA	NA	NA	NA	619	NA	619.4	4,424	NA	4,424
trans-1,2-dichloroethene	v	2.00E-02	1.71E-02	NA	NA	NA	231	NA	230.8	1,648	NA	1,648
Tetrachloroethylene	v	6.00E-03	1.14E-02	2.10E-03	9.10E-04	ND	142	9440.22	142.2	1,016	2697.21	1,016
Trichloroethylene	v	5.00E-04	5.70E-04	4.60E-02	1.40E-02	ND	7	550.68	6.8	49	157.34	49
Vinyl Chloride	v	3.00E-03	2.85E-02	7.20E-01	1.54E-02	A	78	93.15	77.5	554	26.62	27

WOE = Weight of Evidence

Sourrce: Regional Secreening Level (RSL) Chemical-Specific Parameters Supporting Table November 2010. USEPA.

NA = Not available

Noncarcinogens:

$$C = \frac{HI*BW*AT*365\ days/year}{EF*ED*[(1/RfD_o*CF*IR)+(1/RfD_i*IR_a*(1/VF+1/PEF)]}$$

Carcinogens:

$$C = \frac{TR*BW*AT*365\ days/year}{EF*ED*[(CSF_o*IR*CF)+(CSF_i*IR_a*(1/VF+1/PEF)]}$$

where:	Construction Worker		Utility Worker
HI (Hazard Index)	1		1
BW = Body Weight (kg), adult	70		70
AT = Averaging Time (years), (adult/carc)	70		70
AT = Averaging Time (years), (adult/nonc)	1		25
EF = Exposure Frequency (days/year)	250		35
ED = Exposure Duration (years), adult	1		25
RfD_o = Oral Reference Dose	chemical-specific		chemical-specific
IR = Ingestion Rate (mg/day), adult	330		330
TR = Target Risk	1.00E-05	1.00E-04	1.00E-05
CSF_o = Oral Cancer Slope Factor	chemical-specific		chemical-specific
IR_a = Air Inhalation Rate (m^3/day)(adult)	20		20
1/PEF = Inv of Particulate Emission Factor (kg/m^3)	2.15983E-10		2.15983E-10
CF = Conversion Factor (kg/mg)	1.00E-06		1.00E-06
1/VF = Volatilization Factor (kg/m^3)	chemical-specific		chemical-specific
RfD_i = Inhalation Reference Dose	chemical -specific		chemical -specific
CSF_i = Inhalation Slope Factor	chemical -specific		chemical -specific

Table 3
Type 5 Groundwater Risk Reduction Standards

Parameter	RfDo (mg/kg-d)	RfDi (mg/kg-d)	CSFo (mg/kg-d)-1	CSFi (mg/kg-d)-1	WOE		Calculated Goal (Nonc) Construction Worker (mg/L)	Calculated Goal (Carc) Construction Worker (mg/L)	Type 5 GW RRS Construction Worker (mg/L)	Calculated Goal (Nonc) Utility Worker (mg/L)	Calculated Goal (Carc) Utility Worker (mg/L)	Type 5 GW RRS Utility Worker (mg/L)
VOCs												
Acetone	9.00E-01	8.90E+00	NA	NA	ND	v	84.3	NA	84.3	602	NA	602
2-butanone	6.00E-01	1.43E+00	NA	NA	NA	v	14.3	NA	14.3	102	NA	102
1,1-Dichloroethane	2.00E-01	NA	5.70E-03	5.60E-03	C	v	256	12.7	12.7	1,825	3.62	3.62
1,1-Dichloroethene	5.00E-02	5.81E-02	NA	NA	C	v	0.589	NA	0.589	4.21	NA	4.21
Cis-1,2-Dichloroethene	2.00E-03	NA	NA	NA	NA	v	2.6	NA	2.6	18.3	NA	18.3
Trans--1,2-Dichloroethene	2.00E-02	1.71E-02	NA	NA	NA	v	0.174	NA	0.174	1.24	NA	1.24
Tetrachloroethylene	6.00E-03	1.14E-02	2.10E-03	9.10E-04	ND	v	0.115	7.719	0.11	0.82	2.205	0.820
Trichloroethylene	5.00E-04	5.70E-04	4.60E-02	1.40E-02	ND	v	0.006	0.50	0.006	0.04	0.142	0.041
Vinyl Chloride	3.00E-03	2.85E-02	7.20E-01	1.54E-02	A	v	0.271	0.338	0.271	1.93	0.097	0.097

v= volatile compound
units = mg/L
Sourrce: Regional Secreening Level (RSL) Chemical-Specific Parameters Supporting Table November 2010. USEPA.
NA = Not available
WOE = Weight of evidence

Noncarcinogens:

$$C = \frac{HI*BW*AT*365\ days/year}{EF*ED*[(1/RfD_o*IR_w) + (1/RfD_i*K*IR_a)]}$$

Carcinogens:

$$C = \frac{TR*BW*AT*365\ days/year}{EF*ED*[(CSF_o*IR_w)+(CSFi*K*IRa)]}$$

where:	Construction Worker	Utility Worker
HI (Hazard Index)	1	1
BW = Body Weight (kg), adult	70	70
AT = Averaging Time (years), (adult/carc)	70	70
AT = Averaging Time (years), (adult/nonc)	1	25
EF = Exposure Frequency (days/year)	250	35
ED = Exposure Duration (years), adult	1	25
RfD_o = Oral Reference Dose	Chemical-specific	Chemical-specific
IRw = Ingestion Rate of Water (L/day), adult	0.08	0.08
K = Volatilization Factor (unitless)	0.5	0.5
IRa = Air Inhalation Rate (m3/day)(adult)	20	20
TR = Target Risk (unitles)	1.00E-05	1.00E-04 1.00E-05

Table 4
Soil-to-Air Volatilization Factor

Parameter		Di (cm^2/sec)	H' unitless	HLC (atm-m^3/mol)	Koc (cm^3/g)	VF (m^3/kg)
VOCs						
Acetone	v	1.059E-01	1.431E-03	3.500E-05	2.364E+00	6.70E+03
2-butanone	v	9.144E-02	2.326E-03	5.690E-05	4.510E+00	7.82E+03
1,1-Dichloroethane	v	8.364E-02	2.298E-01	5.620E-03	3.182E+01	2.11E+03
1,1-Dichloroethene	v	8.631E-02	1.067E+00	2.610E-02	3.182E+01	8.64E+02
cis-1,2-dichloroethene	v	7.360E-02	1.670E-01	4.073E-03	3.550E+01	2.83E+03
trans-1,2-dichloroethene	v	8.761E-02	1.668E-01	4.080E-03	3.960E+01	2.74E+03
Tetrachloroethylene	v	5.047E-02	7.236E-01	1.770E-02	9.494E+01	2.64E+03
Trichloroethylene	v	6.866E-02	4.027E-01	9.850E-03	6.070E+01	2.44E+03
Vinyl Chloride	v	1.071E-01	1.137E+00	2.780E-02	2.173E+01	5.81E+02

Sourrce: Regional Secreening Level (RSL) Chemical-Specific Parameters Supporting Table November 2010. USEPA.

Derivation Of VF Values (Soil-to-Air Volatilization Factor):

$$VF(m^3/kg) = \frac{(LS \times V \times DH)}{A} \times \frac{(p \times a \times T)^{1/2}}{(2 \times D_{ei} \times E \times K_{as} \times 10^{-3}\ kg/g)}$$

where:

LS = length of side of contaminated area (m):	45
V = wind speed in mixing zone (m/s):	2.25
DH = diffusion height (m):	2
A = area of contamination (cm^2)	2.03E+07
p = pi:	3.14159265
a = (cm^2/s):	$(D_{ei} \times E)/(E + (rs \times ((1-E)/K_{as})))$
T = exposure interval (s), industrial:	7.88E+08
r_s = density of soil solids (g/cm^3):	2.65
OC = soil organic carbon content fraction (unitless):	0.02
D_{ei} = effective diffusivity (cm^2/s):	$D_i \times E^{0.33}$
D_i = molecular diffusivity (cm^2/s):	chemical-specific
E = total soil porosity (unitless):	0.35
K_{as} = soil/air partition coefficient (g soil/cm^3 air):	$(H/K_d) \times 41$
H = Henry's law constant (atm-m^3/mol):	chemical-specific
K_d = soil-water partition coefficient (cm^3/g):	$K_{oc} \times OC$
K_{oc} = organic carbon partition coefficient (cm^3/g):	chemical-specific

m = meter
s = second
cm = centimeter
g = gram =
atm-m3/mol = atmospheres-cubic meters per mole

Table 1

Type 5 RRS for Groundwater and Soil: Construction and Utility Workers

Parameter	CAS No.	RRS Type 5 Soil		RRS Type 5 Groundwater	
		Construction Worker (mg/kg)	Utility Worker (mg/kg)	Construction Worker (mg/L)	Utility Worker (mg/L)
VOCs					
Acetone	67-64-1	145,576	1,039,832	84.3	602
2-butanone	78-93-3	43,685	312,037	14.3	102
1,1-Dichloroethane	75-34-3	13,037	3,725	12.7	3.62
1,1-dichloroethene	75-35-4	252	1,803	0.589	4.21
cis-1,2-dichloroethene	156-59-2	619	4,424	2.6	18.3
trans-1,2-dichloroethene	156-60-5	231	1,648	0.174	1.24
Tetrachloroethylene	127-18-4	142	1,016	0.11	0.82
Trichloroethelene	79-01-06	6.8	49	0.006	0.041
Vinyl Chloride	75-01-4	77.5	27	0.27	0.097

APPENDIX I – UNIFORM ENVIRONMENTAL COVENANTS

2014082414 DEED BOOK 24410 Pg 658
Filed and Recorded:
6/5/2014 2:52:43 PM
Debra DeBerry
Clerk of Superior Court
DeKalb County, Georgia

(Above Space Reserved for Recording)

After Recording Return to:

Scott E. Hitch, Esq.
Burr & Forman LLP
171 17th Street NW, Suite 1100
Atlanta, Georgia 30363
404.685.4260

CROSS-REFERENCE:

Deed Book 15562, Page 660,
DeKalb County Records.

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with O.C.G.A § 44-16-8(a).

Fee Owner of Property/Grantor:
The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
PO Box 197
Carmel Valley, CA 93924

Grantee/Holder:
The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
PO Box 197
Carmel Valley, CA 93924

Grantee/Entity with express power to enforce:
State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1456 East Tower
Atlanta, GA 30334

Parties with interest in the Property:
None

Property:

The property subject to this Environmental Covenant is the Fashion Care/Executive Care Tract (hereinafter "Property"), located at 2211 Savoy Drive in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on November 7, 2003 from Business Associates, Inc., a Georgia Corporation to John F. Rowan recorded in Deed Book 15562, Page 660, DeKalb County Records. The area is located in Land Lot 343 of the 18th District of DeKalb County, Georgia. The property currently (2014) consists of approximately 0.61 acres of property developed with a single, one-story building that contains a drycleaner on the west side and restaurant space on the east side. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-343-13-002 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following document[s]:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.
- Point of Compliance Monitoring Plan, as Approved by EPD

These documents are available at the following locations:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1054 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq.* by the Trust of John F. Rowan, Sr., its successors and assigns, and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the Property. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene, vinyl chloride and 1,1-Dichloroethene have been detected in groundwater beneath the Property. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene and vinyl chloride have been detected in soil beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules",

respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The institutional controls consist of no use of groundwater on the Property, and utility and construction worker protection requirements regarding impacted soil and groundwater in designated areas of the property. Engineering controls required for the Property include (1) maintenance of the concrete/asphalt cover over impacted soil and (2) implementation and maintenance of vapor mitigation measures for any existing enclosed structures on the Property and any future enclosed structures that may be constructed on the Property within the area indicated on attached Figures 1 and 2. These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) and/or EPD vapor risk thresholds commensurate with the use of the Property. Accordingly, this Environmental Covenant imposes such limitations upon the use of the Property.

Grantor, the Trust of John F. Rowan, Sr. (hereinafter "Trust"), hereby binds Grantor, its successors and assigns to the activity and use restriction(s) for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the Trust and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from excising any authority under applicable law.

The Trust makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of the Holder, EPD, Trust and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, the Holder or its successors and assigns, the Trust or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, apply for building permit(s), or propose any subsurface site work in the environmentally impacted areas shown on Figures 1 and 2 that would affect the Property.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant.

4. Periodic Reporting. The Owner shall inspect the property and applicable property instruments at *least annually* to ensure compliance with this document. Annually, by no later than December 31st following the effective date of this Environmental Covenant, the Owner shall submit to EPD an Annual Report as specified in the EPD approved Point of Compliance Monitoring Plan including: groundwater detection-monitoring report results, maintenance and inspection activities, certification of non-residential use of the Property, and documentation stating whether or not the activity and use limitations in this Environmental Covenant are being abided by. Groundwater detection-monitoring requirements may be discontinued in the future by approval of the EPD in accordance with the VRP requirements for the Property; however, the annual Site Use, Activity and Monitoring Form (Exhibit C) shall be completed and submitted to the EPD as long as the UEC is in effect.

   In addition, the annual Site Use, Activity and Monitoring Form shall include the results of a visual inspection of the adjacent Tax Parcel No. 18-333-02-023 for indications of the development or potential development of enclosed structures in the area of groundwater impacts associated with the release of drycleaner impacts from the Property. Should the visual inspection conclude the impacted area of parcel 18-333-02-023 may be developed with an enclosed structure(s) the holder of this UEC shall assess the potential for vapor intrusion with tools/methods approved by the Georgia EPD. Should it be concluded through these tools/methods that the potential risk is above then current Georgia EPD regulatory guidance/thresholds, the owner of the Property shall approach the owner of parcel 18-333-02-023 to mitigate the risk.

5. Activity and Use Limitation(s). The Property shall be used only for non-residential uses, as defined in Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any residential use of the Property shall be prohibited unless soil and groundwater are remediated to residential RRS. A vapor mitigation system or barrier shall be installed and maintained with the construction of any enclosed structures until the HSRA regulated substances in soil and groundwater at the Property reach HSRA RRS and/or EPD vapor risk thresholds are met.

6. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless HSRA regulated substances are treated to below HSRA residential RRS for groundwater.

   Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

7. Soil Limitation. Should intrusive activities within the area designated in Figure 1 as having regulated substances at concentrations greater than HSRA non-residential RRS be required, the extracted, impacted soil should be managed in accordance with all applicable local, state and federal rules and regulations governing the management of such material. Removed soil in this area should not be placed back into the excavation, but be properly characterized for disposal in accordance with 40 CFR Part 261(specifically 40 CFR Parts 261.20-24, regarding characteristic waste) and transported and disposed of at an appropriate disposal facility. The excavation should be backfilled with clean fill material and recapped with an impervious surface. Recapping of the area of excavation is not necessary if all the impacted soil in the excavation area is removed to below applicable HSRA residential RRS to the water table for the regulated chemicals of concern noted in the "Description of Contamination and Corrective Action" above.

8. Utility Worker & Construction Worker Protection. HSRA regulated chemicals have been identified in soil and groundwater above calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and/or utility workers. The following regulated chemicals have been identified in soil above calculated risk-based threshold levels for the protection of construction workers and/or utility workers as indicated: PCE.

   The following regulated chemicals have been identified in groundwater above calculated risk-based threshold levels for the protection of construction workers and/or utility workers: PCE, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene and vinyl chloride. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade.

   The areas with soil or groundwater concentrations above these levels is identified on the attached Figures 1 and 2, respectively. Prior to conducting construction or subsurface utility work that may result in exposure to soil or groundwater in the designated areas, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted soil or groundwater performed in the execution of work should be done in accordance with Items 7 and 6 above, respectively.

9. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

10. Right of Access. In addition to any rights already possessed by EPD and/or the Holder, the Owner shall allow authorized representatives of EPD and/or Holder the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

11. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) Holder, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

12. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq.*

13. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

14. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 11 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1054 East Tower
Atlanta, GA 30334

The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
PO Box 197
Carmel Valley, CA 93924

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act on the 1 day of April, 2014.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK; SIGNATURES APPEAR BEGINNING ON FOLLOWING PAGE]

[ENVIRONMENTAL COVENANT SIGNATURES PAGE]

The Trust of John F. Rowan, Sr.

Catherine Norris, Trustee
Dated: 4/1/14

WITNESS:

By: Keri Arellano
Name: Keri Arellano
Dated: 4-1-88

The Trust of John F. Rowan, Sr.

[Name of Person Acknowledging Receipt]
[Title]
Dated: 4/1/14

WITNESS:

By: Keri Arellano
Name: Keri Arellano
Dated: 4-1-88

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

Judson H. Turner, Director
Dated: 5/27/14

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF California
COUNTY OF Monterey

On this 1 day of April, 2013, I certify that Catherine Norris personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

KERI ARELLANO
Commission # 1911071
Notary Public - California
Monterey County
My Comm. Expires Oct 30, 2014

Keri Arellano
Notary Public in and for the State of ~~Georgia~~ California, residing at Monterey.
My appointment expires: 10-30-14.

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF Georgia
COUNTY OF Spalding

On this 27th day of May, 2014, I certify that Judson H. Turner personally appeared before me, acknowledged that he signed this instrument, on oath stated that **he** was authorized to execute this instrument, and acknowledged it as the Director of the Georgia Environmental Protection Division to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

Cristal Sailors
Notary Public in and for the State of Georgia, residing at Spalding.
My appointment expires 1/22/17.

CRISTAL SAILORS
NOTARY
PUBLIC
Exp. Jan. 22, 2017
SPALDING COUNTY, GA

[CORPORATE ACKNOWLEDGMENT]

STATE OF California
COUNTY OF Monterey

On this 1 day of April, 2014, I certify that Catherine Norris personally appeared before me, acknowledged that **he/she** is the representative of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

Keri Arellano
Notary Public in and for the State of
~~Georgia~~ CA, residing at Monterey.
My appointment expires: 10-30-14.

KERI ARELLANO
Commission # 1911071
Notary Public - California
Monterey County
My Comm. Expires Oct 30, 2014

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF California
COUNTY OF Monterey

On this 1 day of April, 2014, I certify that Catherine Norris personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the The trust John F Rowan Sr [type of authority] of Representative [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

Keri Arellano
Notary Public in and for the State of
~~Georgia~~ CA, residing at Monterey.
My appointment expires: 10-30-14.

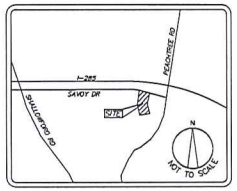
KERI ARELLANO
Commission # 1911071
Notary Public - California
Monterey County
My Comm. Expires Oct 30, 2014

Exhibit A

Legal Description

All that tract or parcel of land lying and being in Land Lot 343 of the 18th District of DeKalb County, Georgia and being more particularly described as follows: Beginning at an iron pin on the westerly line of the right of way of North Peachtree Road (which line is 35 feet westerly from the center line of said road) and on the line dividing Land Lots 343 and 334; and running thence along said Land Lot line South, 89 degrees 53 minutes West, 213 feet to an iron pin; thence North 22 degrees 15 minutes West, 158.85 feet to an iron pin; thence North 15 degrees 11 minutes East, 120 feet to an iron pin on the southerly line of the right of way of I-285; thence South 74 degrees 49 minutes East along the southerly right of way of I-285, 100 feet to an iron pin; thence South 15 degrees 11 minutes West, 990 feet to an iron pin; thence South 23 degrees 25 minutes 30 seconds East, 111.6 feet to an iron pin; thence South 60 degrees 44 minutes East, 60 feet to an iron pin; thence North 89 degrees 53 minutes East, 75 feet to an iron pin on the westerly right of way of North Peachtree Road; thence along said right of way South 9 degrees 17 minutes 30 seconds West, 18 feet to the POINT OF BEGINNING. According to a Plat by Earnest L. Boggus dated June 14, 1968, revised April 10, 1969, revised May 8, 1970. Subject to covenants, easements and restrictions of record and to utility easements.

This is the same property conveyed by Business Associates, Inc. to CJH Capital Corporation by Warranty Deed dated September 21, 1987, recorded in Deed Book 5954, page 189, Clerk's Office, DeKalb County Superior Court.



VICINITY MAP

LEGEND

APPROXIMATE PROPERTY LINE

ASL LIMITED PARTNERSHIP PROPERTY

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

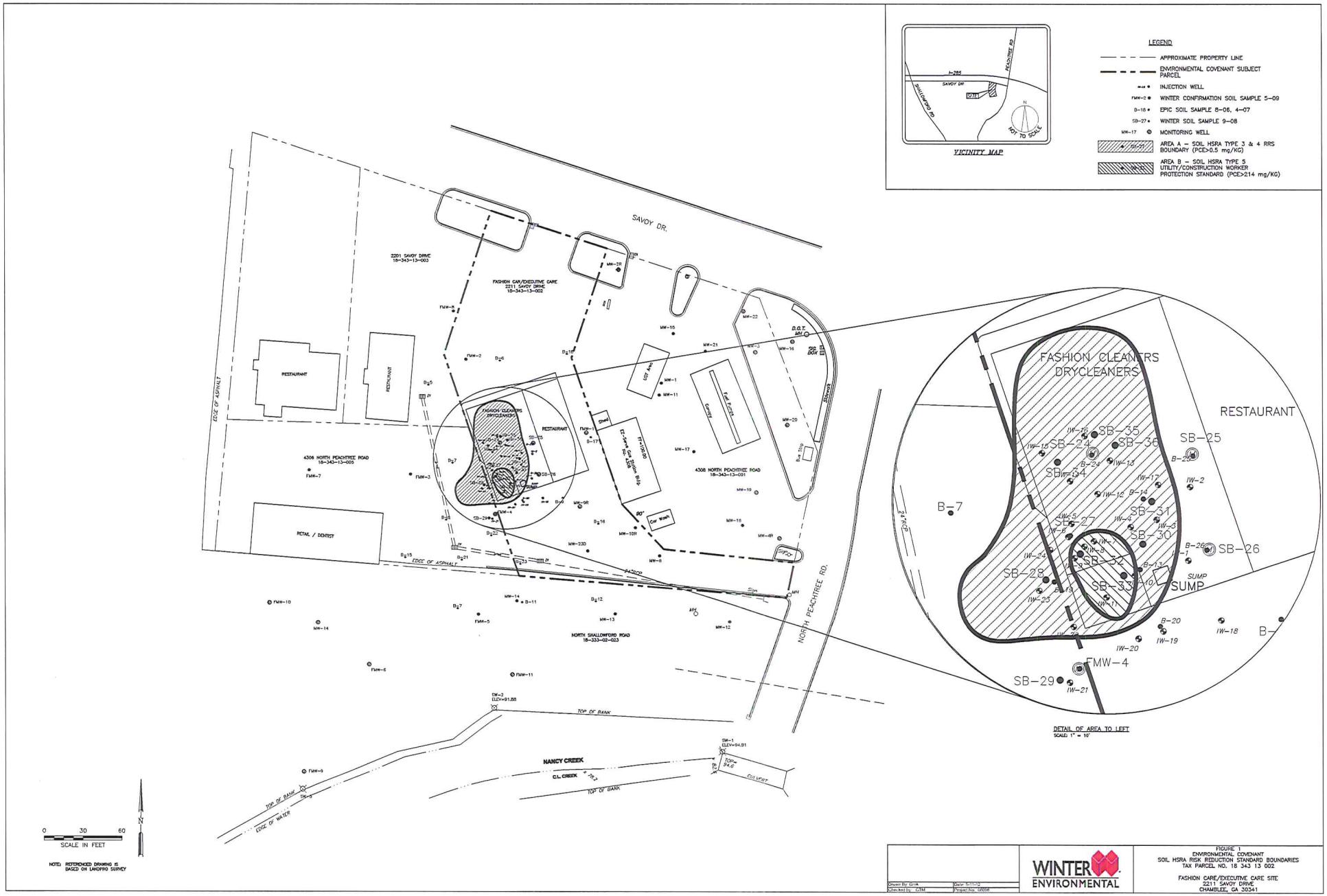
Drawn By: GHA	Date: 6-23-11
Checked by: GTM	Project No: BR096

WINTER ENVIRONMENTAL

EXHIBIT B
AREA MAP

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

DEED BOOK 24410 Pg 668


VICINITY MAP
I-285
SAVOY DR
PEACHTREE RD
SHALLOWFORD RD
NOT TO SCALE
LEGEND
APPROXIMATE PROPERTY LINE
ENVIRONMENTAL COVENANT SUBJECT PARCEL
INJECTION WELL
WINTER CONFIRMATION SOIL SAMPLE 5-09
EPIC SOIL SAMPLE 8-06, 4-07
WINTER SOIL SAMPLE 9-08
MONITORING WELL
AREA A - SOIL HSRA TYPE 3 & 4 RRS BOUNDARY (PCE>0.5 mg/KG)
AREA B - SOIL HSRA TYPE 5 UTILITY/CONSTRUCTION WORKER PROTECTION STANDARD (PCE>214 mg/KG)
SAVOY DR.
NORTH PEACHTREE RD.
NORTH SHALLOWFORD ROAD
NANCY CREEK
TOP OF BANK
EDGE OF WATER
EDGE OF ASPHALT
RESTAURANT
RETAIL / DENTIST
FASHION CLEANERS DRYCLEANERS
FASHION CAR/EXECUTIVE CARE
2201 SAVOY DRIVE
4308 NORTH PEACHTREE ROAD
SCALE IN FEET
NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY
DETAIL OF AREA TO LEFT
SCALE: 1" = 10'
FASHION CLEANERS DRYCLEANERS
RESTAURANT
SUMP
B-7
SB-25
SB-26
SB-27
SB-28
SB-29
SB-30
SB-31
SB-32
SB-33
SB-34
SB-35
SB-36
FMW-4
WINTER ENVIRONMENTAL
FIGURE 1
ENVIRONMENTAL COVENANT
SOIL HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 343 13 002
FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

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VICINITY MAP

LEGEND

- APPROXIMATE PROPERTY LINE
- ENVIRONMENTAL COVENANT SUBJECT PARCEL
- AREA C – HSRA TYPE 1, 3, & 4 RRS BOUNDARY OF CONSTITUENTS OF INTEREST
- AREA D – HSRA TYPE 5 RRS BOUNDARY OF CONSTITUENTS OF INTEREST*
- SD-1 SEDIMENT SAMPLE LOCATION

* ALL WELLS HAD A COMPOUND >TYPE 5 FOR BOTH CONSTRUCTION & UTILITY WORKER NUMBERS

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

0 30 60
SCALE IN FEET

Drawn by: GHA	Date: 5-11-12
Checked by: GJU	Project No: 00000

WINTER ENVIRONMENTAL

FIGURE 2
ENVIRONMENTAL COVENANT
GROUNDWATER HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 343 13 002

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

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DEED BOOK 24410 Pg 671
Debra DeBerry
Clerk of Superior Court
DeKalb County, Georgia

Exhibit C
SITE USE, ACTIVITY, AND MONITORING EVALUATION FORM
Fashion Care/Executive Care Site, Parcel No. 18-343-13-002,
2211 Savoy Drive, Chamblee, DeKalb County, Georgia

TYPE	No.	CRITERIA RESPONSE	YES	NO
Property Use	1	Has the property use changed, has construction work been implemented on the property, or have building permits been applied for?		
	1a	If yes to 1, was EPD notified at least 30 days in advance?		
	1b	If no to 1a, attach a written explanation.		
Exposure	2	Has subsurface site work been conducted in the areas of the property where soil and/or groundwater concentrations exceed residential cleanup standards (UEC - Figure 1 - Areas A and B and Figure 2 - Areas C and D)?		
	2a	If yes to 2, was EPD notified within 3 business days following the site work?		
	2b	Has groundwater extraction or use for non-remedial purposes occurred?		
	2c	If no to 2a or yes to 2b, attach a written explanation, including a description regarding whether the requirements of the uniform environmental covenant (UEC) were adhered to.		
Engineering Controls	3	Is the concrete/asphalt cover intact and of sufficient quality to prevent exposure to soil in the area of the property where soil concentrations exceed residential cleanup standards (UEC – Figure 1 - Areas A and B)?		
	3a	If no to 3, are corrective measures being taken? Notify EPD within 60 days of identification of damaged concrete/asphalt with a plan and schedule to repair. Please attach a written explanation.		
	3b	Have enclosed structures been installed on the property or existing structures modified in such a way as to change potential vapor intrusion assumptions?		
	3c	Is the vapor mitigation system on the existing structure operating consistently and being maintained?		
	3d	• If yes to 3b, have vapor intrusion mitigation measures been implemented? Please attach a written explanation. • If no to 3c, please attach a written explanation.		
Permanent Markers	4	Are the permanent markers that delineate the restricted areas in place and legible?		
	4a	If no to 4, attach a written explanation.		
Property Instruments	5	Do all leases or other property instruments for the site have the applicable UEC and deed notice language inserted into them.		
	5a	If no to 5, attach a written explanation.		
Inspection	6	Date of inspection:		
	6a	Name of inspector:		
	6b	Photographs showing current land use, engineering controls, and permanent markers (attached)		
Inspection Parcel # 18-333-02-023	7	Date of inspection:		
	7a	Name of inspector:		
	7b	Photographs showing current land use(attached).		
	7c	Are there indications of the development or potential development of enclosed structures in the area of groundwater impacts associated with the release of drycleaner impacts from Parcel No. 18-343-13-002? If so, notify EPD within 30 days with a plan to assess the potential for vapor intrusion in such structures.		

Certification:
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME (Please type or print) _____ TITLE _____

SIGNATURE _____ DATE _____

2014082415 DEED BOOK 24410 Pg 672
Filed and Recorded:
6/5/2014 2:52:43 PM
Debra DeBerry
Clerk of Superior Court
DeKalb County, Georgia

After Recording Return to:

Scott E. Hitch, Esq.
Burr & Forman LLP
171 17th Street NW, Suite 1100
Atlanta, Georgia 30363

CROSS-REFERENCE:
Deed Book 3267, Page 130,
DeKalb County Records.

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/Grantor:
Southern Automatic Company
Lenbrook
3747 Peachtree Rd. NE, Apt. 1623
Atlanta, Ga. 30319

Grantee/Holder:
The Trust of John F. Rowan, Sr.
Mrs. Catherine Norris, Representative
PO Box 197
Carmel Valley, Ca 93924

Grantee/Entity with express power to enforce:
State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite ~~1152~~ East Tower
Atlanta, GA 30334
1456

Parties with interest in the Property:

- None at time of execution

Property:

The property subject to this Environmental Covenant is the Southern Automatic Company N. Peachtree Tract (hereinafter "Property"), located at 4306 N. Peachtree Road, in Chamblee, DeKalb County, Georgia. This tract of land was conveyed on November 25, 1974 from Hoke A. Rowan, Jr. to Southern Automatic Company recorded in Deed Book 3267, Page 130, DeKalb County Records. The area is located in Land Lot 343 of the 18th District of DeKalb County, Georgia. The property consists of approximately 0.51 acres of property developed at the time of this covenant with a single, one-story building that contains a dentist office, a beauty shop, and other retail stores. A complete legal description of the area is attached as Exhibit A and a map of the area is attached as Exhibit B.

Tax Parcel Number(s):

18-343-13-005 of DeKalb County, Georgia

Name and Location of Administrative Records:

The corrective action at the Property that is the subject of this Environmental Covenant is described in the following documents:

- Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) Application/Corrective Action Plan (CAP) for the Fashion Care/Executive Care Site, HSI #10786, July 9, 2010.
- Vapor Intrusion Model - Response to EPD Comments dated February 22, 2012 regarding Voluntary Remediation Program Reports submitted through December 2, 2011: VRP Site, Fashion Care/Executive Care, HSI No. 10786, 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, dated March 29, 2012.

These documents are available at the following locations:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite ~~1462~~ 1054 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Office of Rowan Randal K DDS
4306 N Peachtree Rd # B
Chamblee, GA 30341

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this Property. This notice is provided in compliance with the Georgia Hazardous Site Response Act and the Georgia VRP.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq*. by Southern Automatic Company, its successors and assigns, The Trust of John F. Rowan, Sr. (herinafter "Trust"), and the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is required because a release of tetrachloroethene (PCE) occurred on the adjacent property; 2211 Savoy Drive, Chamblee Georgia. PCE, trichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene, vinyl chloride and 1,1-dichloroethene have been detected in groundwater beneath the Property. PCE, trichloroethene and cis-1,2-dichloroethene have been detected in soil beneath the Property. These chemicals are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated there under (hereinafter "HSRA" and "Rules", respectively). The Corrective Action associated with these regulated substances on the Property consists of engineering and institutional controls to protect human health and the environment. The engineering control required for the Property is the maintenance of existing concrete and asphalt covering soil impacted with regulated chemicals in Area A of Figure 1. The

institutional controls consist of no use of groundwater on the Property, and utility and construction worker protection requirements regarding impacted groundwater on the Property in Area D of Figure 2. These controls shall remain in effect until the EPD deems the regulated substances above are in compliance with HSRA Risk Reduction Standards (RRS) commensurate with the use of the Property.

Grantor, Southern Automatic Company (hereinafter "Southern Automatic"), hereby binds Grantor, its successors and assigns to the activity and use restrictions for the Property identified herein and grants such other rights under this Environmental Covenant in favor of the Trust and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated there under. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from exercising any authority under applicable law.

Southern Automatic makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of the Trust, EPD, Southern Automatic and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, the Trust or its successors and assigns, Southern Automatic or its successors and assigns, and other party(ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/or Use Limitation(s)

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) day advance written notice to EPD of the Owner's intent to convey any interest in the Property. No conveyance of title, easement, lease, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Corrective Action. The Owner of the Property must also give thirty (30) day advance written notice to EPD of the Owner's intent to change the use of the Property, or to apply for building permit(s). The EPD must be notified within 3 business days following any subsurface site work in the environmentally impacted areas shown on Figures 1 and 2. These notifications shall include a certification that the requirements of this covenant were adhered to.

3. Notice of Limitation in Future Conveyances. Each instrument hereafter conveying an interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of the Environmental Covenant. The notice shall explicitly state the requirements of Activities 5-8 to ensure worker protection and proper handling of impacted media.

4. Periodic Reporting. Annually, beginning no later than 12 months following the effective date of this Environmental Covenant, the Owner shall submit to EPD a completed Site Use, Activity and Monitoring Evaluation Form (~~attached~~). EXHIBIT C

5. Activity and Use Limitation(s). The current use of the Property is non-residential as defined according to Section 391-3-19-.02 of the Rules and defined in and allowed under the DeKalb County's zoning regulations as of the date of this Environmental Covenant. Any future development of the property with enclosed structures, whether residential or non-residential as defined above shall require the following:

   - A vapor mitigation system or barrier be installed and maintained with the construction of any enclosed structures within the impacted soil Area A as indicated on attached Figure 1 and impacted groundwater Area D as indicated on Figure 2, until the HSRA regulated substances in soil and groundwater at the Property reach non-residential HSRA RRS; or vapor modeling of groundwater and/or soil contamination in Areas A and D on Figure 1 and 2, respectively, indicate that vapor mitigation is not required for enclosed structures and EPD concurs with the vapor modeling results; and
   - Groundwater use is prohibited (unless EPD concurs that groundwater is remediated to residential RRS).

6. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited, unless HSRA regulated substances are treated to below HSRA residential RRS for groundwater.

   Should any dewatering of groundwater for construction or utility work purposes be necessary, a sanitary sewer system discharge permit should be acquired from DeKalb County. The extracted water should be pretreated to DeKalb County requirements prior to discharge into the sanitary sewer system. Extracted groundwater should not be discharged into the storm water system or surface waters. All management of impacted groundwater should be done in accordance with all applicable local, state and federal rules and regulations governing the management of such material.

7. Soil Limitation. The concrete and asphalt covering the area designated as Area A in Figure 1 as having regulated substances at concentrations greater than HSRA non-residential RRS, must be maintained and shall only be breached in accordance with the restrictions herein. Should intrusive activities within the area designated in Figure 1 as having regulated substances at concentrations greater than HSRA non-residential RRS be required, the extracted, impacted soil should be managed in accordance with all applicable local, state and federal rules and regulations governing the management of such material. Soil removed from this area should not be placed back into the excavation, but be properly characterized for disposal in accordance with 40 CFR Part 261(specifically 40 CFR Parts 261.20-24, regarding characteristic waste), and transported and disposed of at an appropriate disposal facility. The excavation should be backfilled with clean fill material and recapped with an impervious surface. Recapping of the area of excavation would not be necessary if all the impacted soil in the excavation area is removed to below applicable HSRA residential RRS to the water table for the regulated chemicals of concern noted in the "Description of Contamination and Corrective Action" above.

8. Utility Worker & Construction Worker Protection. Levels of the following HSRA regulated chemicals have been identified in groundwater above calculated risk-based threshold levels (HSRA Type 5 RRS) for the protection of construction workers and/or utility workers as indicated:

HSRA regulated chemical	Construction Worker Threshold Concentration (mg/L)	Utility Worker Threshold Concentration (mg/L)	Comments
PCE	0.12	0.82	
Trichloroethene	0.006	0.041	
Cis-1,2-dichloroethene	2.6	18.0	This chemical was identified above the construction worker threshold only.

The area with chemical concentrations in groundwater above Type 5 RRS levels is identified as Area D on attached Figure 2. At the time of the preparation of this covenant, groundwater was present in the identified area at approximately 13.5 feet below current grade. Prior to conducting construction or subsurface utility work that may result in exposure to groundwater in the designated area, a worker must have appropriate HAZWOPER training per OSHA's Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120, and perform the work in accordance with a Health and Safety Plan prepared by a qualified safety professional. All management of impacted groundwater performed in the execution of work should be done in accordance with Item 6 above.

The exposure duration assumed for a utility worker was 35 days per year, for a period of 25 years. The exposure duration assumed for a construction worker was 250 days a year, for a period of no more than one year. Therefore, utility worker exposure in the areas that meet Type 5 RRS, but exceed Type 1-4 RRS, Area A in Figure 1 and Area C in Figure 2; should not exceed 35 days per year for 25 years, and for construction workers should not to exceed 250 days in a year. If on site works in the areas designated above are to be exceeded, then the procedures outlined above must be followed to eliminate the work exposure pathway.

9. Permanent Markers. Permanent markers shall be installed and maintained on the Property that delineate the restricted area as specified in Section 391-3-19-.08(7)(d) of the Rules. Disturbance or removal of such markers is prohibited. The markers should indicate that an Environmental Covenant exists for the Property, and that the covenant should be reviewed prior to any site disturbance.

10. Right of Access. In addition to any rights already possessed by EPD and/ Trust, the Owner shall allow authorized representatives of EPD and/or the Trust the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

11. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorders of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) the Trust, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

12. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Property is in compliance with the Type 1, 2, 3, or 4 RRS, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07 and removes the Property from the Hazardous Site Inventory, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq*.

13. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

14. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

RepresentationsandWarranties.

Grantor hereby represents and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
b) That the Grantor is the sole owner of the Property and holds fee simple title which is free, clear and unencumbered;
c) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;
d) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;
e) That the Grantor has served each of the people or entities referenced in Activity 11 above with an identical copy of this Environmental Covenant in accordance with O.C.G.A. § 44-16-4(d).
f) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and
g) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices.

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

- Georgia Environmental Protection Division, Branch Chief, Land Protection Branch, 2 Martin Luther King Jr. Drive SE Suite 1~~7~~9 54 East Tower, Atlanta, GA 30334.

- Southern Automatic Company, Lenbrook, 3747 Peachtree Rd. NE, Apt. 1623, Atlanta, GA 30319.

- The Trust of John F. Rowan, Sr., Attn. Mrs. Catherine Norris, Representative, PO Box 197, Carmel Valley, Ca 93924

Grantor has caused this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the 24 day of July, 2012.

Southern Automatic Company

Hoke A Rowan Jr
PRESIDENT
[Name of Signatory]
[Title]

Dated: 24-7-12

The Trust of John F. Rowan, Sr.

[Name of Person Acknowledging Receipt]
[Title]

Dated: 8/1/12

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

Judson H. Turner
[Name of Person Acknowledging Receipt]
[Title]

Dated: 5/27/14

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF Georgia
COUNTY OF Spalding

On this 27th day of May, 2014, I certify that Judson H. Turner personally appeared before me, acknowledged that **he** signed this instrument, on oath stated that **he** was authorized to execute this instrument, and acknowledged it as the Director of the Georgia Environmental Protection Division to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

CRISTAL SAILORS NOTARY PUBLIC Exp. Jan. 22, 2017 SPALDING COUNTY, GA

Cristal Sailors
Notary Public in and for the State of Georgia, residing at Spalding.
My appointment expires 1/22/17.

[INDIVIDUAL ACKNOWLEDGMENT]

STATE OF Georgia
COUNTY OF FULTON

On this 24th day of July, 2012, I certify that Hoke Rowan personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at **his/her** free and voluntary act and deed for the uses and purposes therein mentioned.

REBECCA JARRELL MY COMMISSION EXPIRES NOTARY PUBLIC JULY 14, 2014 FULTON COUNTY, GEORGIA

Rebecca Jarrell
Notary Public in and for the State of Georgia, residing at 5385 Peachtree Dunwoody Rd.
My appointment expires 7-14-2014

[CORPORATE ACKNOWLEDGMENT]

STATE OF Georgia
COUNTY OF FULTON

On this 24th day of July, 2012, I certify that Hoke Rowan personally appeared before me, acknowledged that **he/she** is the President of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that **he/she** was authorized to execute said instrument for said corporation.

REBECCA JARRELL MY COMMISSION EXPIRES NOTARY PUBLIC JULY 14, 2014 FULTON COUNTY, GEORGIA

Rebecca Jarrell
Notary Public in and for the State of Georgia, residing at 5385 Peachtree Dunwoody Rd.
My appointment expires 7-14-2014

[REPRESENTATIVE ACKNOWLEDGEMENT]

STATE OF Calif.
COUNTY OF Monterey

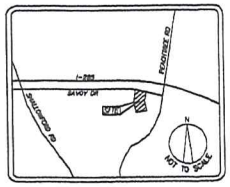
On this 1ST day of August, 2012, I certify that Catherine Norris personally appeared before me, acknowledged that **he/she** signed this instrument, on oath stated that **he/she** was authorized to execute this instrument, and acknowledged it as the Representative [type of authority] of The Trust of John F. Rowan Sr. [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

SUE PECCIANTI
Commission # 1865060
Notary Public - California
Monterey County
My Comm. Expires Oct 14, 2013

Sue Peccianti
Notary Public in and for the State of California ~~Georgia~~, residing at Carmel, Calif.
My appointment expires 10/14/13.

Exhibit A Legal
Description

Beginning at an iron pin on the south line of Land Lot 343, said point being south 89 degrees 53 minutes west 213.00 feet from the westerly right of way of North Peachtree Road, (70' R/W), thence south 89 degrees 53 minutes west 225.00 feet along the south line of Land Lot 343 to an iron pin, thence north 0 degrees 7 minutes west 316.8 feet to an iron pin on the southerly right of way of I-285, thence south 74 degrees 49 minutes east along the southerly right of way of I-285, 203.9 feet to an iron pin, thence south 15 degrees 11 minutes west 120.0 feet to a masonry nail, thence south 22 degrees 15 minutes east to the south line of Land Lot 343 and the point of beginning.



VICINITY MAP

LEGEND

APPROXIMATE PROPERTY LINE

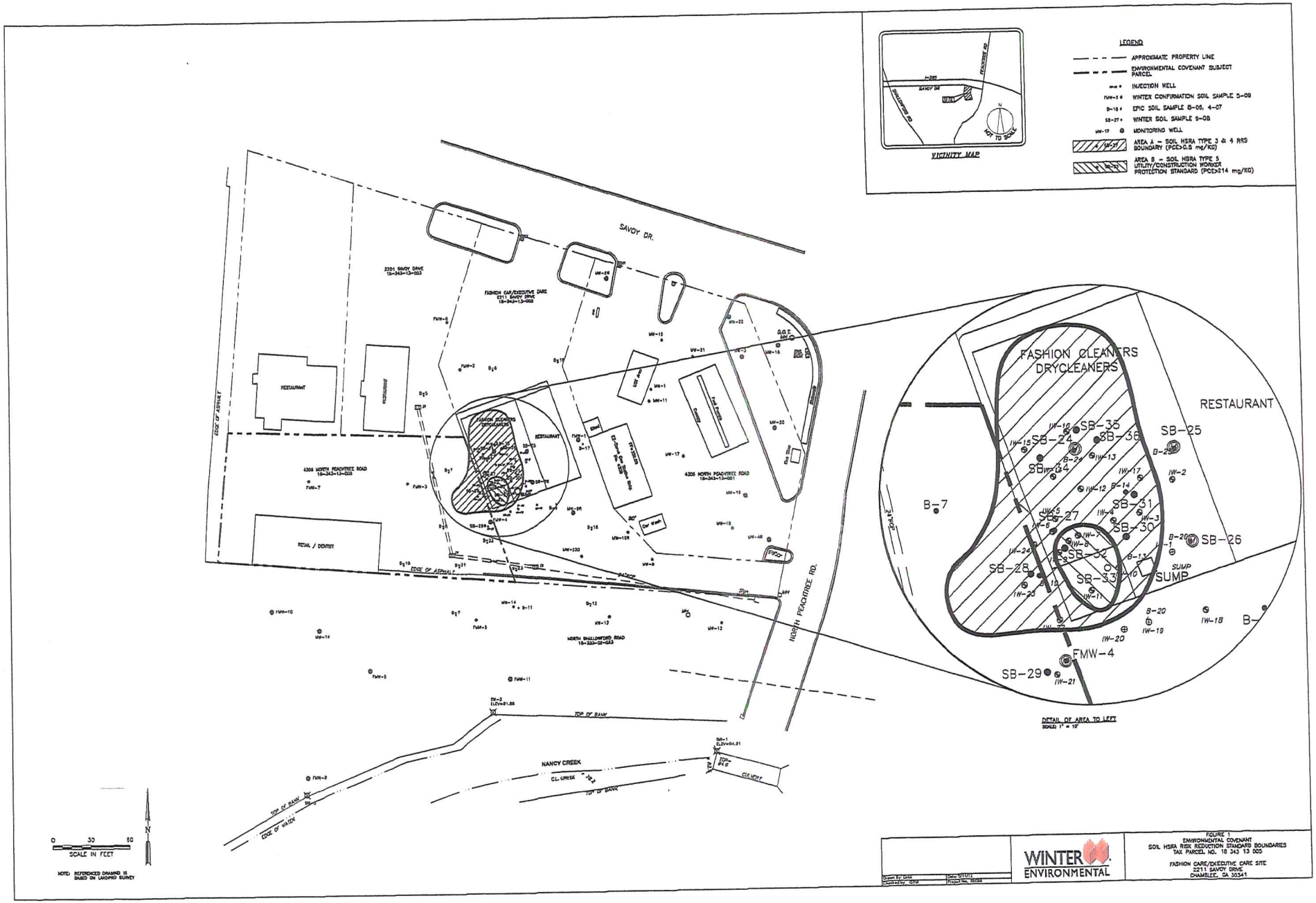
ASL LIMITED PARTNERSHIP PROPERTY

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

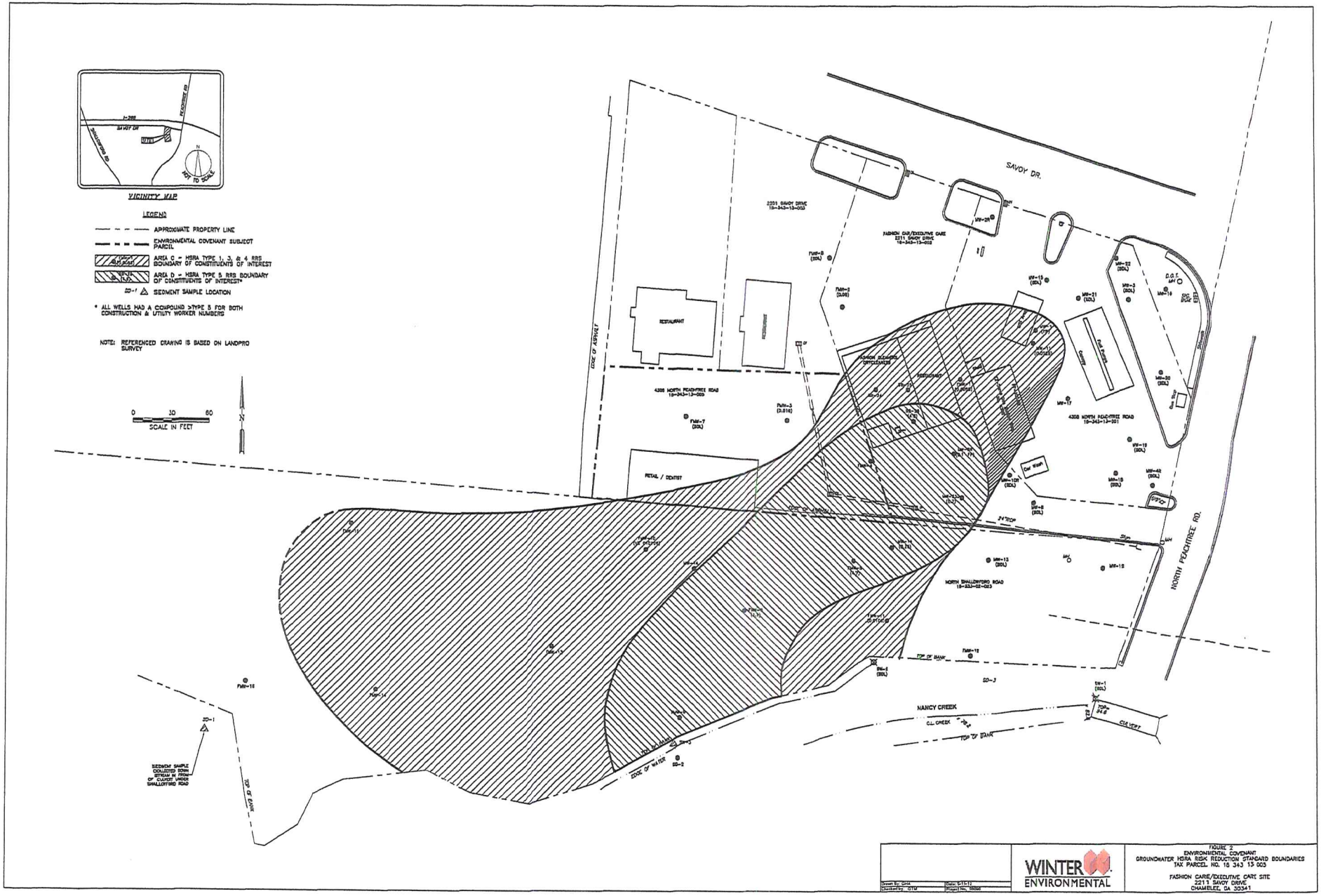
Drawn By: GHA Checked by: GTM	Date: 8-23-11 Project No. 00004	WINTER ENVIRONMENTAL

EXHIBIT B
AREA MAP

FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341


VICINITY MAP
NOT TO SCALE
LEGEND
APPROXIMATE PROPERTY LINE
ENVIRONMENTAL COVENANT SUBJECT PARCEL
INJECTION WELL
WINTER CONFIRMATION SOIL SAMPLE 5-08
EPIC SOIL SAMPLE 6-05, 4-07
WINTER SOIL SAMPLE 9-08
MONITORING WELL
AREA A – SOIL HSRA TYPE 3 & 4 RRS BOUNDARY (PCE>0.5 mg/Kg)
AREA B – SOIL HSRA TYPE 5 UTILITY/CONSTRUCTION WORKER PROTECTION STANDARD (PCE>214 mg/Kg)
SAVOY DR.
NORTH PEACHTREE RD.
NANCY CREEK
FASHION CLEANERS DRYCLEANERS
RESTAURANT
SUMP
FMW-4
DETAIL OF AREA TO LEFT
SCALE 1" = 10'
SCALE IN FEET
NOTE: REFERENCED DRAWING IS BASED ON LANDMO SURVEY
WINTER ENVIRONMENTAL
FIGURE 1
ENVIRONMENTAL COVENANT
SOIL HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 343 13 005
FASHION CARE/EXECUTIVE CARE SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

12


VICINITY MAP
LEGEND
APPROXIMATE PROPERTY LINE
ENVIRONMENTAL COVENANT SUBJECT PARCEL
AREA C - HSRA TYPE 1, 3, & 4 RRS BOUNDARY OF CONSTITUENTS OF INTEREST
AREA D - HSRA TYPE 5 RRS BOUNDARY OF CONSTITUENTS OF INTEREST*
SD-1 SEDIMENT SAMPLE LOCATION
* ALL WELLS HAD A COMPOUND >TYPE 5 FOR BOTH CONSTRUCTION & UTILITY WORKER NUMBERS
NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY
0 30 60
SCALE IN FEET
N
SAVOY DR.
NORTH PEACHTREE RD.
NANCY CREEK
RESTAURANT
RETAIL / DENTIST
NORTH SHALLOWFORD ROAD
EDGE OF ASPHALT
EDGE OF WATER
TOP OF BANK
SEDIMENT SAMPLE COLLECTED FROM STREAM OR FROM OF CULVERT UNDER SHALLOWFORD ROAD
WINTER ENVIRONMENTAL
FIGURE 2
ENVIRONMENTAL COVENANT
GROUNDWATER HSRA RISK REDUCTION STANDARD BOUNDARIES
TAX PARCEL NO. 18 343 13 003
FASHION CARE/EXECUTIVE CART SITE
2211 SAVOY DRIVE
CHAMBLEE, GA 30341

DEED BOOK 24410 Pg 685
Debra DeBerry
Clerk of Superior Court
DeKalb County, Georgia

Exhibit C
SITE USE, ACTIVITY, AND MONITORING EVALUATION FORM

Fashion Care/Executive Care Site, Parcel No. 18-343-13-005,
4306 N. Peachtree Road, Chamblee, DeKalb County, Georgia

TYPE	No.	CRITERIA RESPONSE	YES	NO
Property Use	1	Has the property use changed, has construction work been implemented on the property, or have building permits been applied for?		
	1a	If yes to 1, was EPD notified at least 30 days in advance?		
	1b	If no to 1a, attach a written explanation.		
Exposure	2	Has subsurface site work been conducted in the areas of the property where soil and/or groundwater concentrations exceed residential cleanup standards (UEC - Figure 1 - Area A and Figure 2 - Areas C and D)?		
	2a	If yes to 2, was EPD notified within 3 business days following the site work?		
	2b	Has groundwater extraction or use for non-remedial purposes occurred?		
	2c	If no to 2a or yes to 2b, attach a written explanation, including a description regarding whether the requirements of the uniform environmental covenant (UEC) were adhered to.		
Engineering Controls	3	Is the concrete/asphalt cover intact and of sufficient quality to prevent exposure to soil in the area of the property where soil concentrations exceed residential cleanup standards (UEC – Figure 1 - Area A)?		
	3a	If no to 3, are corrective measures being taken? Please attach a written explanation.		
	3b	Have enclosed structures been installed on the property or existing structures modified in such a way as to change potential vapor intrusion assumptions?		
	3c	If yes to 3b, have vapor intrusion mitigation measures been implemented? Please attach a written explanation		
Permanent Markers	4	Are the permanent markers that delineate the restricted areas in place and legible?		
	4a	If no to 4, attach a written explanation.		
Property Instruments	5	Do all leases or other property instruments for the site have the applicable UEC and deed notice language inserted into them.		
	5a	If no to 5, attach a written explanation.		
Inspection	6	Date of inspection:		
	6a	Name of inspector:		
	6b	Photographs showing current land use, engineering controls, and permanent markers (attached)		

Certification:
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_____ _____
NAME (Please type or print) TITLE

_____ _____
SIGNATURE DATE

APPENDIX J – VRP MONITORING PLAN

REPORT

Voluntary Remediation Program Monitoring Plan
Fashion Care/Executive Care Site
HSI No. 10786
2211 Savoy Drive
DeKalb County
Chamblee, Georgia

Project Number
2015.0058.01

Report Date:
April 7, 2015

We're here for you
UNITED CONSULTING

We're here for you
UNITED CONSULTING

April 7, 2015

Robin S. Futch, PG, PMP
Compliance Officer
Response and Remediation Program
Land Protection Branch, GA EPD
2 Martin Luther King Jr. Drive
Suite 1054 East
Atlanta, GA 30334-9000

RE: Voluntary Remediation Program
Monitoring Plan
Fashion Care/Executive Care Site
HSI No. 10786
2211 Savoy Drive, Chamblee, Georgia
DeKalb County
Project No. 2015.0058.01

Dear Ms. Futch:

This Voluntary Remediation Program Monitoring Plan for the Fashion Care/Executive Care Site, HSI No. 10786, 2211 Savoy Drive, Chamblee, Georgia, DeKalb County; is being submitted on behalf of John F. Rowan, Sr. Item IV Trust. Assessment and corrective action has been conducted on this Site to bring it into compliance with the VRP, and documentation is provided in the VRP Compliance Status Report (CSR) dated April 7, 2014, submitted to the Georgia Environmental Protection Division. The VRP CSR petitions for removal of the Site from the HSI. This Monitoring Plan is to provide post-VRP CSR monitoring of select exposure pathways to confirm the conclusions drawn in the VRP CSR.

The substantive work described in this report was performed under the direction of Leonard J. Diprima, Jr., P.G. Please contact Mr. Diprima if you have any questions or comments regarding the information contained herein.

Sincerely,

UNITED CONSULTING

Leonard J. Diprima, Jr., P.G.
Project Manager/Senior Environmental Specialist

Russell C. Griebel, P.G., C.P.G.
Executive Vice President

Cc: Catherine Norris, Trust Representative
Scott Hitch, Esq., Burr & Forman LLP, Trust Counsel

LJD/RCG/tl

SharePoint: 2015.0058.02

Voluntary Remediation Program Monitoring Plan

Image Courtesy of Google Earth

Fashion Care/Executive Care Site
HSI No. 10786
2211 Savoy Drive, Chamblee, DeKalb County, Georgia

Prepared For
John F. Rowan, Sr. Item IV Trust
PO Box 197, Carmel Valley, CA 93924

Prepared by

We're here for you
UNITED CONSULTING
625 Holcomb Bridge Road
Norcross, Georgia 30071

Project No. 2015.0058.01

April 7, 2015

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Figure 1 Site Location Map
Figure 2 Tax Parcel Map
Figure 3 April 2014 Groundwater Data Map
Figure 4 VRP Monitoring Plan Sample Locations

MONITORING WELL CONSTRUCTION LOGS

Monitoring Wells: FMW-4, FMW-6, FMW-9, FMW-12, and FMW-16

1.0 BACKGROUND

United Consulting has prepared this Voluntary Remediation Program (VRP) Monitoring Plan for the Fashion Care Site (Site/Fashion Care), Hazardous Site Inventory (HSI) No. 10786, located at 2211 Savoy Drive, Chamblee, DeKalb County, Georgia, on behalf of the John F. Rowan, Sr. Item IV Trust (Trust), the previous owner of the property and responsible party under the VRP. At the time this Monitoring Plan was prepared, the Site remains listed on the HSI. The Site location is presented on Figure 1.

Figure 2 shows the Fashion Care property and surrounding properties. The Fashion Care/former Trust property currently has a single, one-story building that contains a dry cleaner on the west side with on-site cleaning, and a vacant space on the east side. A dry cleaner has been located in the building since the building was constructed in the 1960's. The east side of the building has contained various retail and restaurant businesses. The remainder of the property is paved with asphalt.

Parcel 18-343-13-005, street address 4306 North Peachtree Road, Chamblee, Georgia is immediately to the west, and is owned by Mr. H.A. Rowan of Southern Automatic Company. The property has a single, one-story building that contains a dentist office, a beauty shop, and other retail stores. The remainder of the property is paved with asphalt.

Parcel 18-343-13-001, street address 4308 North Peachtree Road, Chamblee, Georgia is immediately to the east, and is owned by Mr. Marvin Hewatt of Georgia-Alabama Commercial Investments, LLC. The property has a single, one-story building that contains a gas station (UST Facility I.D. No. 900341*1; EZ-Serve Site). The remainder of the property is paved with asphalt and concrete.

Parcel 18-333-02-023, has no street address and is immediately to the east. It is owned by Asl Limited Partnership of Boca Raton, Florida; and is wooded, undeveloped property. The south side of the parcel is bordered by Nancy Creek.

A historical release of tetrachloroethene (PCE) and its degradation products to soil from dry cleaner operations conducted at the Fashion Care dry cleaner property was identified in 2004. As a result, a Hazardous Sites Response Act (HSRA) Program Release Notification was submitted to the Georgia Environmental Protection Division (EDP) HSRA Program on March 24, 2004. The EPD listed the property/Site on the Georgia HSI on July 29, 2004 for a release of regulated constituents to soil. On June 30, 2006 the EPD issued a HSRA CSR Call-in Letter to the Trust requiring the assessment of soil and groundwater related to the historical release. The constituents of interest (COI), established during the HSRA investigation and approved by the HSRA Program, and later by the VRP, are PCE and its regulated degradation constituents, and are listed in Table 1. Table 1 also provides a list of other constituents identified but not associated with the Fashion Care release.

During the course of addressing the release of dry cleaner constituents under the HSRA Program and VRP, the Trust (owner at the time) required the current dry cleaner tenant to discontinue the use of PCE in their operation and replaced the PCE dry cleaning machine in May 2009 with a non-chlorinated solvent based dry cleaning machine. No PCE remains on the Site and the last additional suspected source of release, a leaking sanitary sewer collection sump that was part of the original building construction in the rear of the building, has been twice cleaned and resealed.

On July 9, 2010 the Trust entered the Site into the VRP with the submittal of a VRP CAP, which was approved with comments by the EPD in December 2, 2010. Since EPD approval of the VRP CAP and entry into the VRP, site evaluation and corrective actions under the VRP have progressed steadily, and updates of the progress have been documented in Semiannual Status Reports beginning June 2, 2011 through the last report submitted December 19, 2014.

During the course of the HSRA and VRP assessments conducted for soil, groundwater, surface water, sediment and soil vapor; impacts associated with the release of PCE were identified on the following properties. Each of these properties was originally entered into the VRP as part of the Site as a "qualifying property", as defined by the Voluntary Remediation Program Act (Act).

- Fashion Care property, 2211 Savoy Drive, Chamblee, Georgia (Parcel 18-343-13-002) – Soil, groundwater and potential soil vapor impacts were identified.

- Southern Automatic Company property, 4306 North Peachtree Road, Chamblee, Georgia (Parcel 18-343-13-005) – Soil, groundwater and the potential for soil vapor impacts were identified.

- Asl Limited Partnership property, no street address and immediately to the east bordering Nancy Creek (Parcel 18-333-02-023) – Groundwater, surface water and the potential for soil vapor impacts were identified.

- Georgia-Alabama Commercial Investments, LLC property, 4308 North Peachtree Road, Chamblee, Georgia (Parcel 18-343-13-001) – Groundwater and the potential for soil vapor impacts were identified.

Each of these properties were also found to be impacted by a release of petroleum from gas station underground storage tank (UST) systems located on the Georgia-Alabama Commercial Investments, LLC property (UST Facility I.D. No. 900341*1; EZ-Serve Site). This petroleum release underwent remediation through the EPD Underground Storage Tank Management Program (UST Program) and received a "no further action required" status. A dual-phase extraction system was operated to recover free-phase gasoline on the property. The dissolved phase gasoline constituents have migrated off the property to the south and west. The remediation system was not designed to address the groundwater plume, and the plume of petroleum constituents has comingled with the dissolved-phase chlorinated solvent plume originating from the Trust property.

As part of the assessment of the release under the VRP, the horizontal and vertical extent of the soil impacts were delineated. Figure 3 shows the extent of impacted soil relative to Type 3/4 non-residential Risk Reduction Standards (RRS) and Type 5 RRS. The majority of soil above non-residential RRS is present beneath the concrete slab of the existing building and on the Fashion Care property. A small area of impacted soil is projected to be on the adjacent Southern Automatic Company property based upon the soil sample control. Soil impacts extend vertically to the water table in much of this area. The soil remedy established under the VRP is a Type 5 solution using engineering and institutional controls to mitigate the potential exposure pathways. The existing concrete building slab and surrounding asphalt paving provides a cap for the impacted soil, and the maintenance of the cap and health and safety requirements associated with future construction or utility work/worker exposure is assured through the use of Uniform Environmental Covenants (UECs) that have been established for the Fashion Care/Parcel #5 and Southern Automatic Company properties.

The horizontal and vertical extent of groundwater impacts from the dry cleaner release were delineated under the VRP. The most recent set of groundwater data collected from the Site was in April 2014, and is depicted on Figure 3 relative to Type 1 and 3 RRS and Type 5 RRS. The plume extends southwest from the Fashion Care property source area toward and intersecting with Nancy Creek bordering the Asl Limited Partnership property. Impacted groundwater is present on portions of the Fashion Care, Southern Automatic Company, Asl Limited Partnership and the Georgia-Alabama Commercial Investments properties. The plume was determined to be confined vertically to the water table aquifer, which is perched upon a dense, dry silt layer that is at least ten feet thick across the Site.

Numerous rounds of surface water samples were collected from Nancy Creek along the length of the groundwater plume's intersection with the creek. The COI have not been identified in any of the SW samples collected to date. In addition, sediment samples collected in this area also did not detect any of the COI.

The potential receptor for groundwater impacts is Nancy Creek. Due to the depth to groundwater across the Site, on average 10 feet or more below grade, direct contact by potential construction or utility workers was determined not to be a potential completed pathway for exposure. Surface water sampling and fate and transport modeling of the release have indicated that the groundwater plume is not predicted to be a potential completed pathway for exposure. This will be confirmed by the VRP Monitoring Program, and recalibration of the fate and transport model will be performed using the additional data collected. The proposed VRP Monitoring Program is presented below.

2.0 PREVIOUS FATE AND TRANSPORT MODELING

Contaminant transport modeling was conducted to evaluate the potential for additional exposure pathways to arise, and for known exposure pathways to become complete at levels that could impact potential receptors above regulatory limits. The known receptors are the portions of the properties that have been impacted by the migration of the groundwater contaminant plume, and Nancy Creek, which receives discharge from the plume. A detailed Contaminant Transport Modeling Report describing the contaminant transport modeling and findings was presented in the VRP Compliance Status Report dated April 7, 2015.

Contaminant transport was evaluated using the following steps:

- Modeling of the transfer of soil contamination to the groundwater flow system by modeling the transfer of contaminant mass to the groundwater system with a soil flushing calculation.

- Groundwater modeling of flow and contaminant transport for the Site. Three-dimensional groundwater flow was simulated using MODFLOW 2000 (Harbaugh et al, 2000).
- The computer code used to simulate contaminant transport was MT3DMS (Zheng and Wang, 1999). MT3DMS is a code for simulating transport of contaminants in three dimensions and uses the outputs from MODFLOW to calculate simulated transport in groundwater.

- Contaminant transport modeling was conducted in three distinct steps. The first step was to model distribution of total dissolved VOCs in the groundwater. The second step was to model the anticipated maximum concentration of PCE in the future, as this compound is the most prevalent compound at the Site with the lowest ISWQS. The third step was to evaluate the likely relative concentrations of the daughter products of PCE decay at the time of the maximum future PCE concentration at the Site, and then compare these concentrations to the appropriate environmental standards. In order to understand the maximum expected concentration of each of the daughter products at the time of maximum PCE concentration, a simulation using BIOCHLOR22 was performed.

- In order to evaluate the potential for PCE and/or its degradation products to be present in Nancy Creek above ISWQS, a groundwater to surface water mixing calculation was performed. The concentrations for PCE, TCE, DCE and VC in groundwater predicted in the previously modeled sections were then blended based on modeled groundwater discharge and the volume of flow in Nancy Creek at the Site at 7Q10 conditions.

Based on the modeling exercises completed, the plume will likely remain stable or decrease over the next 60 years. The plume generally appears to migrate down the axis of the Nancy Creek valley on the northern side of the creek. Generally, the overall plume distribution appears to be monitored adequately by the existing well network. Given these observations, the following conclusions/recommendations were made:

- The predicted plume footprint does not expand substantially beyond the existing monitoring well network;

- As the source area is depleted, the center of maximum plume concentration will slowly migrate and continue to degrade as it migrates toward Nancy Creek;

- The maximum modeled concentration of PCE is predicted to discharge to Nancy Creek approximately 41 years after the source remediation effort conducted in 2008;

- Mixing calculations for the predicted maximum concentrations of PCE and daughter products in Nancy Creek indicate that ISWQS will not be exceeded; and

- No other receptors for the groundwater plume are present within the existing or predicted footprint of the VOC plume at the Site.

The execution of this groundwater and surface water sampling plan, followed by an update of the fate and transport modeling using the additional data, will be used to confirm the exposure pathway predictions above.

3.0 MONITORING PLAN

Based upon the assessment and fate and transport modeling of the dry cleaner COI release on the Fashion Care property, it has been determined that groundwater and surface water monitoring should be conducted at the Site to confirm potential receptors identified during these activities will not be exposed to the COI in the future.

3.1 Groundwater and Surface Water Monitoring

In order to confirm the predicted exposure trends for the Site, a limited groundwater and surface water sampling plan is to be initiated, and the data acquired will be input into the contaminant transport model to confirm the current results.
Sampling will be conducted using the following network of existing monitoring wells and surface water locations for two consecutive annual sampling events. The locations are shown on Figure 4 and monitoring well construction logs are attached.

- Monitoring Wells: FMW-4, FMW-6, FMW-9, FMW-12, and FMW-16
- Surface Water Locations: SW-1, SW-2 and SW-3.

Samples will be collected for Target Compound List (TCL) volatile organic compounds (VOCs), and sample results will be evaluated for the site-specific VOC list previously approved under the VRP and provided in Table 1. At the conclusion of the second sampling event, the data acquired will be input into a fate and transport model to confirm the current results. Annual monitoring reports will be submitted to the EPD VRP. The second annual monitoring report will also present the results of the fate and transport modeling with recommendations based upon the results.
It is noted that should a detection of COI be found in surface water during the implementation of the VRP Monitoring Plan, the Surface Water Corrective Action Plan presented in the Semiannual Status Report dated July 2, 2014, and approved by the EPD, will be implemented. No constituents associated with the release of PCE at the Site have been identified in Nancy Creek to date.

The annual sampling events will be conducted in early December of each year, to begin the year this Plan is approved. December has been chosen based upon ease of accessibility to the monitoring well locations on the Asl Limited Partnership property due to heavy undergrowth. Reporting of the sampling results is presented in Section 3.3 below.

3.1.1 Groundwater Sampling

Monitoring wells FMW-4, FMW-6, FMW-9, FMW-12, and FMW-16, will be sampled for Target Compound List (TCL) volatile organic compounds (VOCs) and analyzed by Method 8260B. Prior to sampling, groundwater elevation measurements will be collected from all the monitoring wells on the Site. This data will be used to construct a potentiometric surface map of the water table (upper water bearing zone) representative of the sampling event.

Groundwater sampling was conducted in accordance with USEPA Region 4 Field Branches Quality System and Technical Procedures in effect at the time of sampling. Sampling will be conducted using a peristaltic pump and the low flow/low stress method. Field measurements of pH, conductivity, dissolved oxygen, oxidation-reduction potential and temperature will be collected until all parameters have stabilized within approximately 10 percent for three consecutive readings. When this stabilization point is reached, samples will be collected for TCL VOCs using the pipette method. A groundwater sampling data sheet will be completed for each monitoring well sampled to record the conditions under which the sampling was conducted, procedures followed, measurements recorded, and other pertinent information. The groundwater sampling data sheet will be provided in the Annual Report submitted to the EPD.

Groundwater samples will be secured in an ice-filled cooler and hand delivered to the laboratory for analysis. Laboratory work orders, and chain-of-custody documents, which include information on project name and number, sampler(s) signature, project manager's name, sample matrix, sample identification/station ID number, date and time of sample collection, total number of containers per sample station, requested analyses and number of containers per analyses per sample station, preservatives, and any other pertinent comments for the laboratory, will be placed within each cooler for delivery.

3.1.2 Surface Water Sampling

Surface Water Locations SW-1, SW-2 and SW-3, will be sampled for TCL VOCs and analyzed by Method 8260B. Three surface water sampling locations were established to consistently evaluate the effect of the groundwater plume intersecting Nancy Creek. The locations are shown on Figure 4 and are described as follows:

- SW-1, located upgradient and outside the area where the groundwater plume intersects Nancy Creek;

- SW-2, located downstream of SW-1 and within the area where the groundwater plume intersects Nancy Creek; and

- SW-3, located downstream of SW-2 and within the area of highest impacts where the groundwater plume intersects Nancy Creek.

Surface water elevation measurements will be collected at each sample location based on an established elevation reference point for each location. This data will be used in the construction of the potentiometric surface map representative of the sampling event.

The sampling will proceed from the downstream location to the upstream location. Sampling will be conducted using a pre-cleaned stream sampler that extends on a pole up to reach out into the stream, or other appropriate method. Samples will them be transferred to the sample containers (40 ml vials w/ preservative) provided by the laboratory. This will be done for safety reasons due to the height of the stream bank on the Asl Limited Partnership property side of the stream. The samples will be collected from mid-depth in the center of the stream. A surface water sampling

data sheet will be completed for each sample location to record the conditions under which the sampling was conducted, procedures followed, measurements recorded, and other pertinent information. The sampling data sheet will be provided in the Annual Report submitted to the EPD.

Surface water samples will be secured in an ice-filled cooler and hand delivered to the laboratory for analysis. Laboratory work orders and chain-of-custody documents, which include information on project name and number, sampler(s) signature, project manager's name, sample matrix, sample identification/station ID number, date and time of sample collection, total number of containers per sample station, requested analyses and number of containers per analyses per sample station, preservatives, and any other pertinent comments for the laboratory, will be placed within each cooler for delivery.

3.2 Fate and Transport Modeling

Contaminant transport modeling will be conducted after receiving the second annual round of groundwater and surface water sample results. Modeling will be conducted to evaluate the potential for additional exposure pathways to arise, and for known exposure pathways to become complete at levels that could impact potential receptors above regulatory limits. Modeling conducted in 2015 and provided in the VRP CSR dated April 7, 2015, indicated that no receptors would be impacted above regulatory limits. The known receptors are the portions of the properties that have been impacted by the migration of the groundwater contaminant plume and Nancy Creek, which receives discharge from the plume.

Contaminant transport will be evaluated using the following steps, or alternate method approved by the EPD in advance:

- Modeling of the transfer of soil contamination to the groundwater flow system by modeling the transfer of contaminant mass to the groundwater system with a soil flushing calculation.

- Groundwater modeling of flow and contaminant transport for the Site. Three-dimensional groundwater flow will be simulated using MODFLOW 2000 (Harbaugh et al, 2000) or current version.

- MT3DMS (Zheng and Wang, 1999) computer code will be used to simulate contaminant transport. MT3DMS is a code for simulating transport of contaminants in three dimensions and uses the outputs from MODFLOW to calculate simulated transport in groundwater.

- Contaminant transport modeling will be conducted in three distinct steps. The first step will model the distribution of total dissolved VOCs in the groundwater. The second step will model the anticipated maximum concentration of PCE in the future, as this compound is the most prevalent compound at the Site with the lowest ISWQS. The third step will evaluate the likely relative concentrations of the daughter products of PCE

decay at the time of the maximum future PCE concentration at the Site, and then compare these concentrations to the appropriate environmental standards. In order to understand the maximum expected concentration of each of the daughter products at the time of maximum PCE concentration, a simulation using BIOCHLOR22 will be performed.

- In order to evaluate the potential for PCE and or its degradation products to be present in Nancy Creek above ISWQS, a groundwater to surface water mixing calculation will be performed. The concentrations for PCE, TCE, DCE and VC in groundwater predicted in the previous modeled sections will be blended based on modeled groundwater discharge and the volume of flow in Nancy Creek at the Site at 7Q10 conditions.

Based on the modeling exercises completed, the plume will be evaluated relative to:

- The predicted plume's footprint potential to expand substantially beyond the existing monitoring well network;

- As the source area is depleted, will the plume continue to degrade as it migrates toward Nancy Creek;

- When the maximum modeled concentration of PCE is predicted to discharge to Nancy Creek;

- Based upon the mixing calculations for the predicted maximum concentrations of PCE and daughter products to enter Nancy Creek, will ISWQS be exceeded; and

- Are any other receptors for the groundwater plume present within the existing or predicted footprint of the VOC plume at the Site?

These results will then be compared to the modeling results provided in the Contaminant Transport Modeling Report in the VRP CSR dated April 7, 2015, to determine if the monitoring of the Site should be continued, or if a proposal should be provided to EPD to end the VRP Monitoring Plan.

3.3 Annual Reporting

Two annual reports will be prepared and submitted to the EPD following the annual sampling events. The first Annual Monitoring Report will be submitted within three weeks following receipt of the laboratory data report. The report will:

- Summarize the field activities conducted;

- Tabulate the current and previous sample results, and compare the results to applicable regulatory standards approved for the Site for groundwater and surface water;

- Present the current laboratory results on a Site map showing the extent of the groundwater plume and surface water detections relative to regulatory standards and provide maps from previous events;

- Present a current potentiometric surface map based upon the current sampling event measurements collected, and provide maps from previous events;

- Provide graphs of concentration vs. time of the current and previous results from individual monitoring wells sampled;

- Provide laboratory data reports and sampling data sheets completed for the sampling event; and

- Provide narrative that evaluates the information presented.

The second Annual Monitoring Report will be submitted within six weeks following receipt of the laboratory data report. The additional time will be utilized to conduct the fate and transport modeling described in Section 3.2. Fate and transport modeling will be conducted using the data acquired from the two annual sampling events. The report will include the same information provided in the first Annual Monitoring Report, and:

- Text, tables and figures that describe the fate and transport modeling of the data;

- Provide an evaluation of the modeling results relative to the previous modeling results conducted in 2014;

- Provide an evaluation of current and future exposure pathways as described in Section 3.2; and

- Provide a recommendation on ending or continuing the VRP Monitoring Plan based upon the results and evaluation of the past two years of data and fate and transport model predictions.

3.4 Termination of Plan

This VRP Monitoring Plan is currently scheduled to be implemented for a two-year period to confirm if the exposure pathway conclusions drawn in the VRP CSR submitted April 7, 2014 are confirmed. The full data set acquired during the two-year monitoring period will be evaluated as described in the previous Sections of this Plan. Based upon the results of this evaluation, a recommendation will be made to EPD to terminate this Plan and conclude that all activities for the Site under the VRP are complete, or to make alternative recommendations to further evaluate the exposure pathways.

Should the conclusions drawn in the Annual Monitoring Report submitted following the second annual sampling event confirm the exposure pathway evaluations presented in the VRP CSR, and the EPD agrees with this conclusion; all the monitoring wells remaining on the Site that are part of the VRP will be properly abandoned in accordance with EPD abandonment requirements in effect at that time. A letter report will be submitted to the EPD following abandonment to confirm that this task has been completed to conclude all Site activities.

TABLES

Table 1
Constituents of Interest
Fashion Care/Executive Care VRP Site (HSI #10786)
2211 Savoy Drive, Chamblee, Georgia

Drycleaner Related Constituents
Tetrachloroethene (PCE)
cis-1, 2-Dichloroethene
trans-1, 2-Dichloroethene
1, 1-Dichloroethene (1,1-DCE)
Trichloroethene (TCE)
Vinyl Chloride (VC)

NON-COI IDENTIFIED

Petroleum Related Constituents
1, 1-Dichloroethane
1,2-Dibromoethane (EDB)
2-Butanone (MEK)
2-Hexanone
4-Methyl-2-pentanone (MIBK)
Benzene
Toluene
Ethylbenzene
Total Xylenes
Cyclohexane
Isopropylbenzene
Methylcyclohexane
MTBE
Styrene
Fumigant-Insecticide
1,2 Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Chlorobenzene
Laboratory Artifact and/or Naturally Ocurring
Acetone

FIGURES

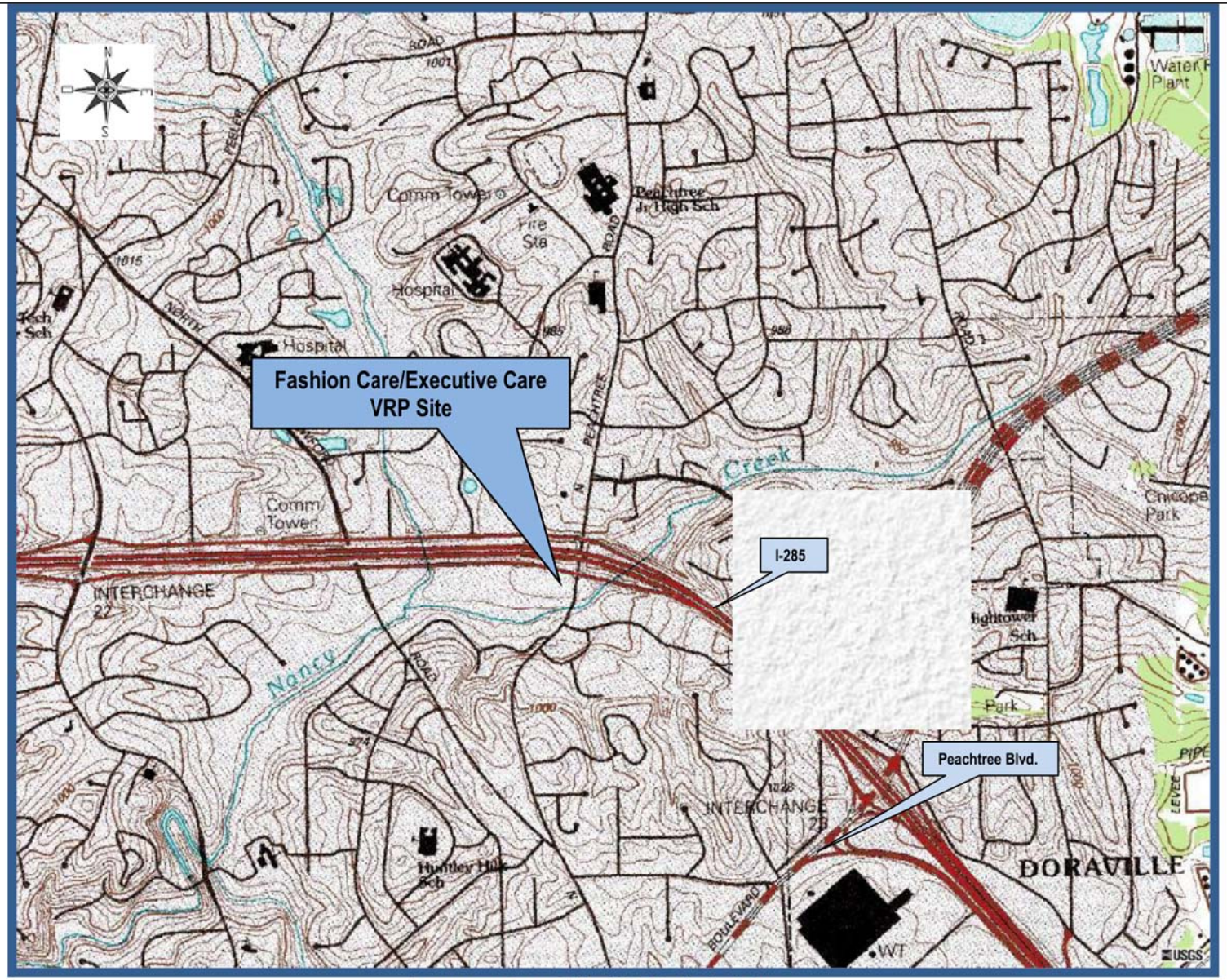


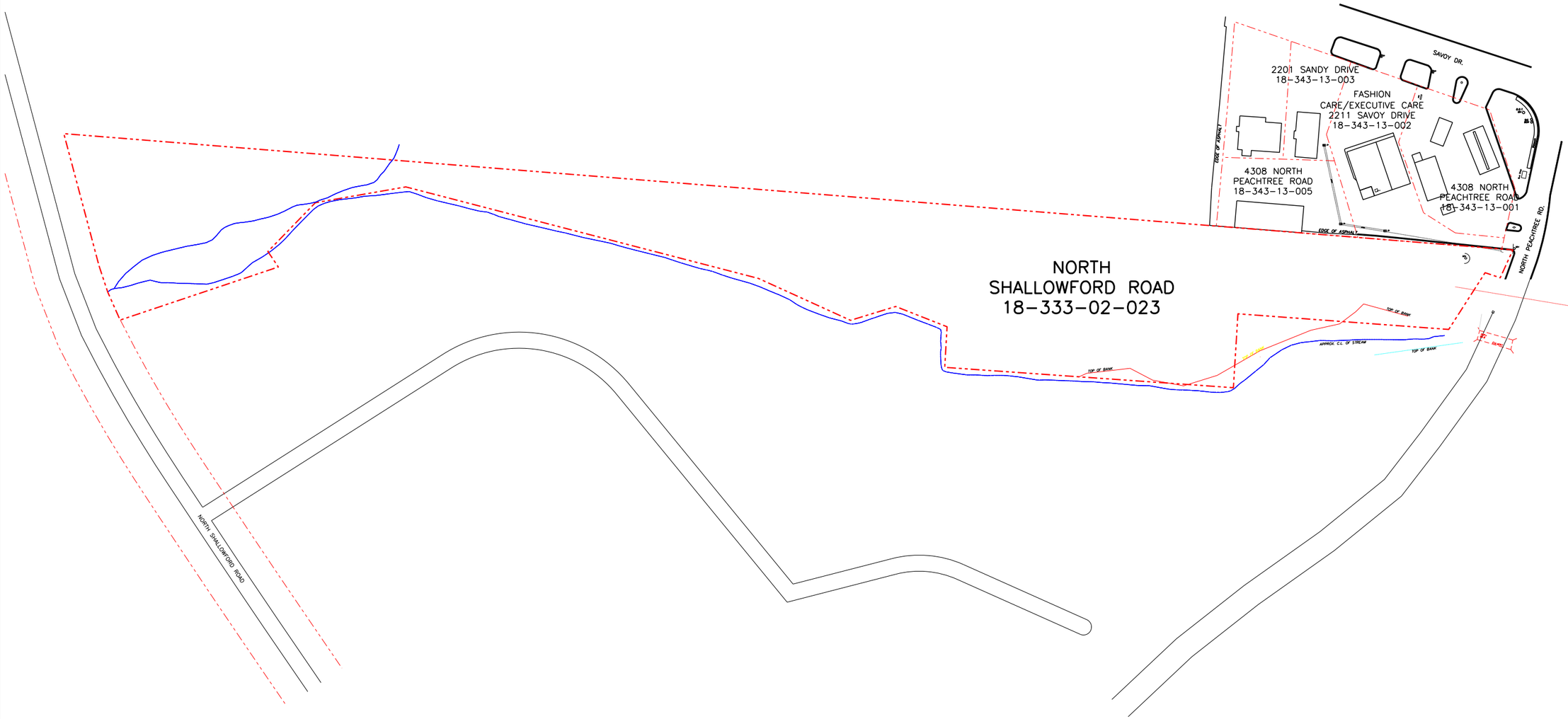
Image courtesy of the U.S. Geological Survey

REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.

SCALE: NTS	DATE: 4-2-15	PROJECT NO: 2015.0058.02	TITLE: SITE LOCATION MAP FASHION CARE/EXECUTIVE CARE VRP SITE 2211 SAVOY DRIVE, CHAMBLEE, GEORGIA
PREPARED: VPV	CHECKED:	REVISIONS:	
CLIENT: ROWAN TRUST			We're here for you UNITED CONSULTING 625 Holcomb Bridge Road Norcross, Georgia 30071 770-209-0029 Fax 582-2900 www.unitedconsulting.com Copyright © United Consulting Group, Ltd.

FIG. 1

REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.



LEGEND

APPROXIMATE PROPERTY LINE

ASL LIMITED PARTNERSHIP PROPERTY

N

80' 0 80' 160'

SCALE (IN FEET)

NOTE: BASE MAPPING IS BASED ON LANDPRO SURVEY

FIG. 2

TITLE: TAX PARCEL MAP
FASHION CARE/EXECUTIVE CARE VRP SITE
2211 SAVOY DRIVE, CHAMBLEE, GEORGIA

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Norcross, Georgia 30071
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PROJECT NO: 2015.0058.02

REVISIONS:

DATE: 4-2-15

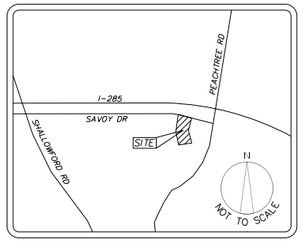
CHECKED:

SCALE: 1" = 160'

PREPARED: VPV

CLIENT: ROWAN TRUST

REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.



VICINITY MAP

LEGEND

- APPROXIMATE PROPERTY LINE
- MW-8 [83.64] — MONITORING WELL [GROUNDWATER ELEVATION]
- SD-1 — SEDIMENT SAMPLE LOCATION
- 84' — GROUNDWATER ISOCONTOUR
- PCE 0.01 — GROUNDWATER CONCENTRATION (mg/l)
- CONCENTRATIONS > TYPE 1/3 RRS
- CONCENTRATIONS > TYPE 5 CONSTRUCTION/UTILITY WORKER

SAVOY DR.

2201 SAVOY DRIVE
18-343-13-003

FASHION CAR/EXECUTIVE CARE
2211 SAVOY DRIVE
18-343-13-002

4306 NORTH PEACHTREE ROAD
18-343-13-005

4308 NORTH PEACHTREE ROAD
18-343-13-001

NORTH SHALLOWFORD ROAD
18-333-02-023

RESTAURANT
RESTAURANT
RETAIL / DENTIST
FASHION CLEANERS DRYCLEANERS
RESTAURANT
EDGE OF ASPHALT
EDGE OF ASPHALT
UST Area
Fuel Pumps
Canopy
EZ-Serve Gas Station Bldg. No. 4308
FF=100.00
Car Wash
Sidewalk
Bus Stop
D.O.T. MH
SIG. BOX
Sign
MH
NORTH PEACHTREE RD.
24"RCP
NANCY CREEK
C.L. CREEK
TOP OF BANK
EDGE OF WATER
CULVERT
FURTHER DOWNSTREAM

MW-2R, MW-15, MW-22, MW-21, MW-3, MW-16, MW-1, MW-11, MW-20, MW-17, MW-19, MW-18, MW-4R, MW-10R, MW-8, MW-9R, MW-23D, MW-14, MW-13, MW-12

FMW-8 [85.78], FMW-2 [85.84], FMW-1 [85.82], SB-24 [86.18], SB-25 [85.93], SB-26 [86.87], FMW-4 [85.77], FMW-7 [84.89], FMW-3 [85.51], FMW-17 [82.47], FMW-15 [82.44], FMW-10 [82.89], FMW-5 [83.18], FMW-6 [82.78], FMW-11 [82.94], FMW-12 [83.19], FMW-13 [82.87], FMW-16 [81.49], FMW-14 [81.94], FMW-9 [82.75], OLD FMW-17, SW-1, SW-2, SW-3, SW-11, SG-2, SD-1

86', 85', 84', 83', 82'

1,1-DCE	0.027
1,1,2-TCA	0.014
cis-1,2-DCE	40
PCE	4.9
trans-1,2-DCE	0.32
TCE	1.8
Vinyl Chloride	1.6

cis-1,2-DCE	0.049
Vinyl Chloride	0.022

cis-1,2-DCE	0.92
PCE	3.1
trans-1,2-DCE	0.016
TCE	0.26

cis-1,2-DCE	0.82
PCE	2.3
trans-1,2-DCE	0.014
TCE	0.25
Vinyl Chloride	0.02

PCE 0.01

cis-1,2-DCE 0.0071

none detected

0 30 60
SCALE IN FEET

NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

FIG. 3

TITLE: APRIL 2014 GROUNDWATER DATA MAP
FASHION CARE/EXECUTIVE CARE VRP SITE
2211 SAVOY DRIVE, CHAMBLEE, GEORGIA

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Norcross, Georgia 30071
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PROJECT NO: 2015.0058.02
DATE: 4-2-15
SCALE: 1" = 60'
REVISIONS:
CHECKED:
PREPARED: VPV
CLIENT: ROWAN TRUST

REFERENCE: ORIGINAL PLAN CREATED BY WOODARD & CURRAN.

VICINITY MAP

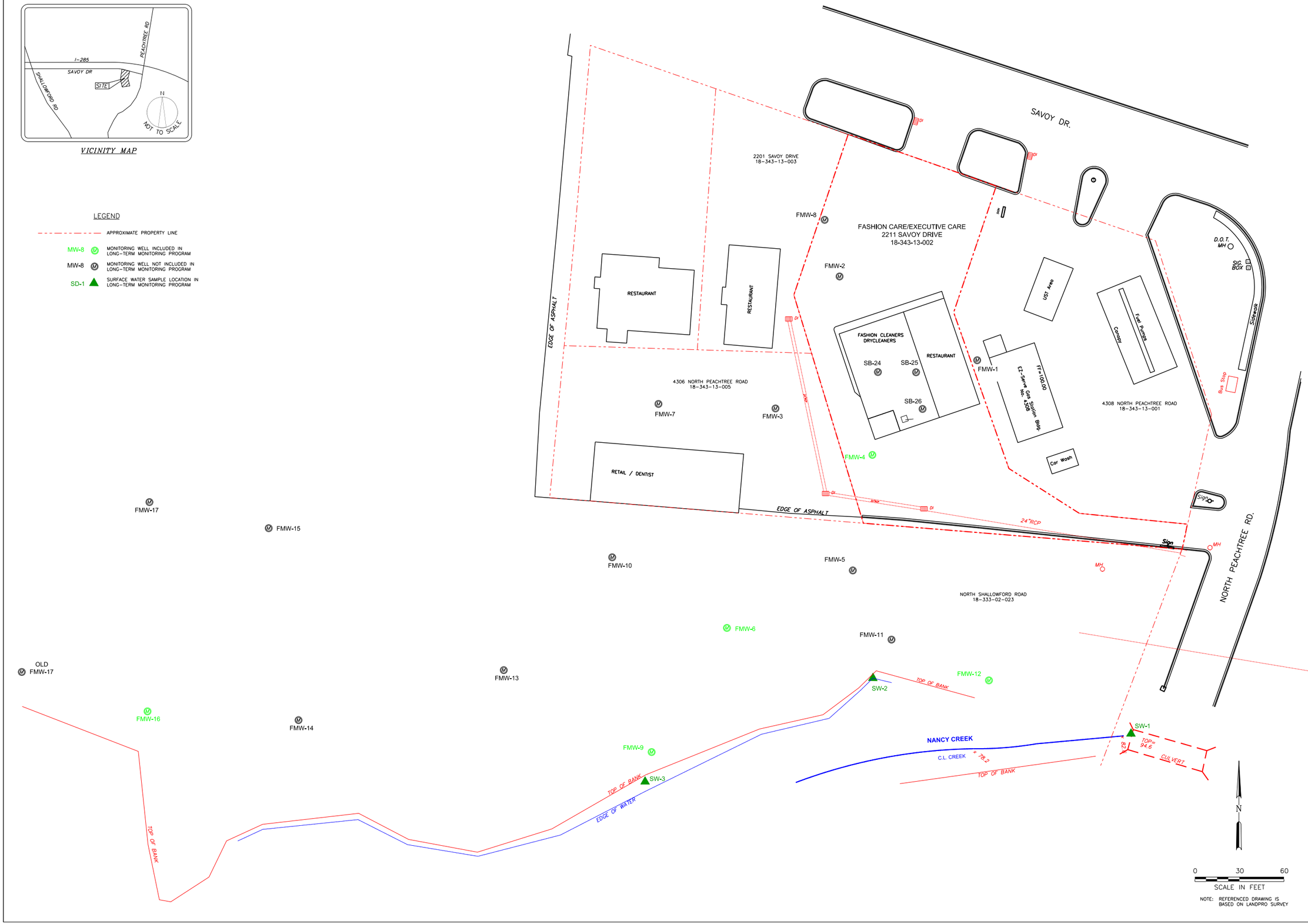
LEGEND

APPROXIMATE PROPERTY LINE

MW-8 MONITORING WELL INCLUDED IN LONG-TERM MONITORING PROGRAM

MW-8 MONITORING WELL NOT INCLUDED IN LONG-TERM MONITORING PROGRAM

SD-1 SURFACE WATER SAMPLE LOCATION IN LONG-TERM MONITORING PROGRAM



NOTE: REFERENCED DRAWING IS BASED ON LANDPRO SURVEY

FIG. 4

TITLE: VRP MONITORING PLAN SAMPLE LOCATIONS
FASHION CARE/EXECUTIVE CARE VRP SITE
2211 SAVOY DRIVE, CHAMBLEE, GEORGIA

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REVISIONS:

DATE: 4-2-15

CHECKED:

SCALE: 1" = 60'

PREPARED: VPV

CLIENT: ROWAN TRUST

MONITORING WELL CONSTRUCTION LOGS

MONITOR WELL LOG - FLUSH MOUNT

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	1000	1150
Date	9/4/08	9/4/08

Well ID	FMW-4
Project No.	08096
Geol./Eng.	Joe King/L. Diprima
Driller	Atlas Geo Sampling

Top cap and lock

Ground surface

Concrete pad and 8 **-inch diameter, flush-mounted manhole**

Drainage gravel

71/4 -inch diameter borehole

Sch 40 PVC **riser pipe material**

2 **-inch diameter riser pipe**

15 **-ft. long riser pipe**

Type Grout

Type 1 A Portland

Type Seal

Pure Gold Bentonite Med Chip

Sch 40 PVC Screen Material

2 **-inch diameter screen**

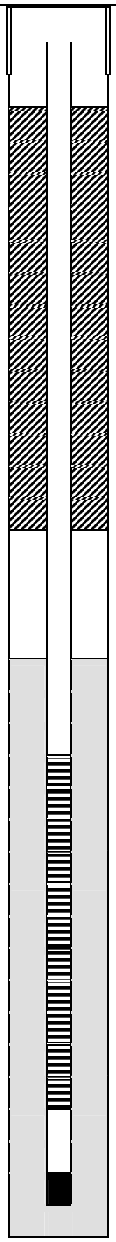
0.010 **-inch screen slot size**

10 **-ft. long screen**

Type Sandpack

Type 1 Filter Sand 20/30 Wash

.5 **-ft. long well plug/point**



Depth to top of riser pipe:
0 **ft. bgs**

Depth to top of grout seal:
.5 **ft. bgs**

Depth to top of seal:
2 **ft. bgs**

Depth to top of sandpack:
8 **ft. bgs**

Depth to top of screen:
10 **ft. bgs**

Depth to bottom of screen:
20 **ft. bgs**

Depth to bottom of well plug/point:
20.5 **ft. bgs**

Depth to bottom of borehole:
20.5 **ft. bgs**

MONITOR WELL LOG - STICKUP

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	1545	1710
Date	9/4/08	9/4/08

Well ID	FMW-6
Project No. 8096	
Oversight: Joe King/L. Diprima	
Driller: Atlas GEO Sampling	

5 -ft. long protective casing with lock

Top cap

Height of top of riser pipe: 3.05 ft. ags

Ground surface

2 -ft. x 2 -ft. x 2 -ft. concrete pad

and -inch diam. or square protective casing

7¼ -inch diameter borehole

Sch 40 PVC riser pipe material

2 -inch diameter riser pipe

8.55 -ft. long riser pipe

Type 1A Portland type grout

-lb. bags x bags = lbs.

+ type of water

Depth to top of seal: 1 ft. bgs

Pure Gold Bentonite Med Chip type seal

-lb. bags or buckets x bags or buckets

= lbs. + type of water

Depth to top of sandpack: 3 ft. bgs

Depth to top of screen: 5.5 ft. bgs

Sch 40 PVC screen material

2 -inch diameter screen

0.010 -inch screen slot size

10 -ft. long screen

Type 1 Filter Sand 20/30 Wash type sandpack

-lb. bags x bags = lbs.

placement

Depth to bottom of screen: 15.5 ft. bgs

0.25 -ft. long sump

Depth to bottom of sump: 15.75 ft. bgs

0.25 -ft. long well plug/point

Depth to bottom of well plug/point: 16 ft. bgs

Depth to bottom of borehole: 16 ft. bgs

NOT TO SCALE

MONITOR WELL LOG - STICKUP

WINTER ENVIRONMENTAL

	Constr. Start	Constr. Finish
Time	1400	1445
Date	11/25/08	11/25/08

Well ID	FMW-9
Project No. 8096	
Oversight: Joe King/L. Diprima	
Driller: Atlas GEO Sampling	

5 -ft. long protective casing with lock

Top cap

Height of top of riser pipe: 3.7 ft. ags

Ground surface

2 -ft. x 2 -ft. x 2 -ft. concrete pad

and -inch diam. or square protective casing

7¼ -inch diameter borehole

Sch 40 PVC riser pipe material

2 -inch diameter riser pipe

9.7 -ft. long riser pipe

Type 1A Portland type grout

-lb. bags x bags = lbs.

+ type of water

Depth to top of seal: 1 ft. bgs

Pure Gold Bentonite Med Chip type seal

-lb. bags or buckets x bags or buckets

= lbs. + type of water

Depth to top of sandpack: 3 ft. bgs

Depth to top of screen: 6 ft. bgs

Sch 40 PVC screen material

2 -inch diameter screen

0.010 -inch screen slot size

10 -ft. long screen

Type 1 Filter Sand 20/30 Wash type sandpack

-lb. bags x bags = lbs.

placement

Depth to bottom of screen: 16 ft. bgs

0.25 -ft. long sump

Depth to bottom of sump: 16.25 ft. bgs

0.25 -ft. long well plug/point

Depth to bottom of well plug/point: 16.5 ft. bgs

Depth to bottom of borehole: 16.5 ft. bgs

NOT TO SCALE

MONITORING WELL

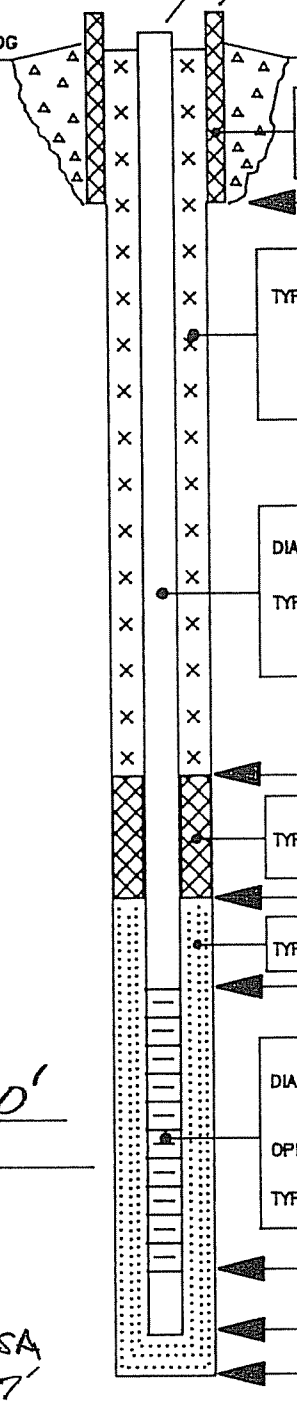
PROJECT	Fashion Care
WELL NO.	FMW-12
SITE	08096
LOCATION	2211 Savoy Dr. Chamblee, GA
BEGUN	3-17-10
COMPLETED	3-17-10
CONSTRUCTED BY	Atlas

ELEV.–TOP OF RISER CASING: Stick-up

ELEV.–TOP OF SURFACE CASING: _____

GENERALIZED GEOLOGIC LOG

See Geologic Log



	DEPTH	ELEV.
GROUND SURFACE		
BOTTOM OF SURFACE CASING		
TOP OF SEAL	2.0	
BOTTOM OF SEAL	4.5	
TOP OF SCREEN	5.5	
BOTTOM OF SCREEN	15.5	
BOTTOM OF SUMP	16.0	
BOTTOM OF HOLE	16.0	

SURFACE CASING
DIA.: 4" Square
TYPE: Stick-up/Aluminum

SURFACE PLUG
TYPE: Bentonite-Portland

RISER CASING
DIA.: 2" ID
TYPE: PVC

ANNULAR SEAL
TYPE: PureGold Bentonite Med. Chips

FILTER PACK
TYPE: Silica Sand

SCREEN
DIA.: 2" ID TYPE: PVC-Slot
OPENING WIDTH: 0.010"
TYPE:

WTATOB = 9.0'

24 hr. WT = _____

4.25" HSA

HOLE DIA.: 0.7'

MONITORING WELL

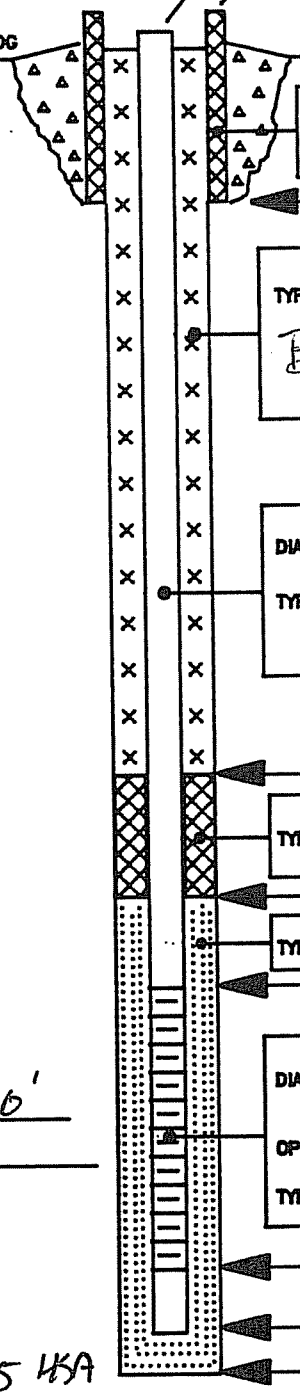
PROJECT: Fashion Care		WELL NO.: FMW-16
SITE: 08096	LOCATION: 2211 Savoy Dr, Chamblee, GA	
BEGUN: 6-15-10	COMPLETED: 6-15-10	CONSTRUCTED BY: Atlas

ELEV.–TOP OF RISER CASING: _____

ELEV.–TOP OF SURFACE CASING: _____

GENERALIZED GEOLOGIC LOG

See Geologic Log



	DEPTH	ELEV.
GROUND SURFACE		
SURFACE CASING — DIA.: 4" Square; TYPE: Stick-up Aluminum		
BOTTOM OF SURFACE CASING		
SURFACE PLUG — TYPE: Bentonite-Portland		
RISER CASING — DIA.: 2" ID; TYPE: PVC		
TOP OF SEAL	2.5	
ANNULAR SEAL — TYPE: Bentonite Chips - Med		
BOTTOM OF SEAL	4.5	
FILTER PACK — TYPE: Silica Sand		
TOP OF SCREEN	6.5	
SCREEN — DIA.: 2" ID; TYPE: Slot; OPENING WIDTH: 0.010"; TYPE: PVC		
BOTTOM OF SCREEN	11.5	
BOTTOM OF SUMP	12.0	
BOTTOM OF HOLE		

WTATOB = ~6.0'

24 hr. WT = _____

HOLE DIA.: 4.25 HSA