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May 30, 2014

Mr. Charles D. Williams
Program Manager
Georgia DNR - Environmental Protection Division
2 Martin Luther King, Jr. Drive, S.E.
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Atlanta, Georgia 30334

RE: Response to EPD's August 19, 2013 VIRP Comments
Columbia County Car Care Center
4014 Washington Road
Martinez, Columbia County, Georgia
HSI Site No. 10394

Dear Mr. Williams:

PEACHTREE ENVIRONMENTAL (Peachtree) has prepared this letter on behalf of **DR. HARINDERJIT SINGH** and **5C WASHINGTON ROAD, LLC** in response to the August 19, 2013 Georgia Environmental Protection Division's (EPD) comments on the February 2013 VIRP and Application for the **COLUMBIA COUNTY CAR CARE CENTER PROPERTY ("5C Property")** in Martinez, Columbia County, Georgia. Georgia EPD's comments and Peachtree's response are provided below.

EPD Comment 1: Figure 3 indicates that groundwater flow is to the northwest. Based on that flow direction, a source originating from the Columbia Square Shopping Center is unlikely to contaminate Dr. Singh's Columbia Car Care Center (CCCC) property [*Note: "the 5C Property"*]. However, the potentiometric map is suspect given that it does not correlate with MW-11D elevations or, if MW-11D was excluded as the other deep wells were, it is only based on data from two wells. Please clarify in future reports and provide appropriate justifications for excluding data from any of the wells.

Response: Peachtree acknowledges and recognizes the problems with attempting to develop a groundwater potentiometric map with only two monitoring wells; however, there are only three shallow monitoring wells (MW-10, MW-15 and PMW-1) on the 5C Property, and top-

of-casing survey information is not available for MW-10. There are four deep monitoring wells (MW-5D, -10D, -11D, and -15D) and one very deep monitoring well (MW-5DD) on the 5C Property, but 0.35 feet of difference in vertical head has been observed between shallow monitoring well MW-15 and adjacent deep well MW-15D. Therefore, it is not appropriate to develop a potentiometric map based on a combination of both shallow and deep well groundwater elevations.

Since the potentiometric surface is influenced by off-site pumping at Vogue Cleaners recovery wells RW-1, -2, and -3, the appropriate way to evaluate the potentiometric surface at the 5C Property is to utilize shallow monitoring wells on both the 5C Property and the adjacent Vogue Cleaners Property. Peachtree measured the depth of groundwater in the wells on the 5C Property on August 28, 2012, while others measured the depth to groundwater in the wells on the Vogue Cleaners Property on August 15, 2012 (August 7 for MW-4). Notwithstanding the two-week difference in time, use of the two sets of water level data is more appropriate for developing a potentiometric map than use of only two monitoring wells.

As shown on the composite potentiometric map in the attached 1st Semiannual VRP Progress Report, the direction of groundwater flow is influenced by a cone of depression created by the Vogue Cleaners recovery wells. At the time of the August 2012 measurements, groundwater at the 5C Property was currently flowing toward the Vogue Cleaners recovery wells.

EPD Comment 2: The most current groundwater data was not used in depicting conditions on the Columbia Square Shopping Center property in Figure 6. Updated data for that property was available in their September 2012 Progress Report; however, Figure 6 inexplicably provides data from January 2010. Additional data has since been provided in their March 2013 Progress Report and the results (including MW-5 and MW-22) demonstrate that the plumes are currently not comingled. Please provide updated figures in future progress reports.

Response: An updated figure is included in the attached 1st Semiannual VRP Progress Report based on the most recent (October 2013) groundwater sampling data at the VRP Property, supplemented with the off-site data obtained by others in August 2013 at the Vogue Cleaners Site and presented in the December 4, 2013 VRP Compliance Status Report. As shown on the updated figure, there is one contiguous plume on the two properties, migrating from the Vogue Cleaners Site to the 5C VRP Property, with two “hot-spots” on the Vogue Cleaners property.

EPD Comment 3: EPD does not agree that off-gassing from chlorinated solvent impacted shallow groundwater can generate the reported volatile organic compounds (VOCs) in soil at the elevated levels seen in current and historical sampling.

Response: Comment noted.

EPD Comment 4: The soil Type 1/3 risk reduction standards (RRS) for tetrachloroethylene (PCE) and cis-1,2-dichloroethylene are incorrect in Table 3.2.2. The correct values are 0.5 mg/Kg and 7.0 mg/Kg respectively, based on 100 times the groundwater standard. Please note that you may delineate to the Type 1 RRS in lieu of background as allowed by the Act.

Response: Peachtree has revised the noted RRS in the attached 1st Semiannual VRP Progress Report.

EPD Comment 5: Section 4.3 notes that revised RRS will be calculated and presented in the final compliance status report (CSR). EPD recommends that the participant finalize approval of all cleanup standards prior to submittal of the final remediation plan. Furthermore, execution of a Uniform Environmental Covenant may be appropriate to ensure future exposure assumptions.

Response: Soil and groundwater RRS have been calculated, and are presented in the attached 1st Semiannual VRP Progress Report.

EPD Comment 6: Figure 7B, Conceptual Site Model (CSM), does not meet the intent of the Checklist and does not provide relevant information regarding the potential migration of contamination. In future reports, the CSM should be more clearly portrayed with a combination of plan views and cross sections rather than the three-dimensional view attempted in Figure 7B. The cross section should be corrected to show the wells in the same order as depicted on the line-of-section figure and should include recent groundwater concentrations.

Response: Peachtree has revised the CSM, including the Cross-Section Maps, in the attached 1st Semiannual VRP Progress Report in order to meet the intent of the Checklist.

EPD Comment 7: Section 5 of the application checklist requires that the CSM include an evaluation of the potential human health and ecological receptors. The VIRP fails to include this and proposes to include it in the CSR. The first progress report should include a complete evaluation which should be updated in future submittals per the checklist.

Response: An evaluation of the potential human health and ecological receptors is included in the attached 1st Semiannual VRP Progress Report.

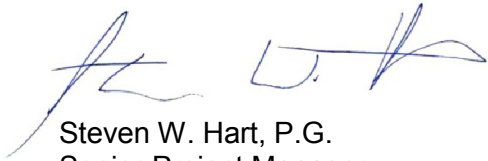
EPD Comment 8: Historical soil data should be incorporated into appropriate figures. For example, the 'Estimated Extent of PCE in Soil' Figure in the May 15, 2007 J. Dunaway Co. report shows that soil contaminated above Type 1 RRS extends further north to MW-5DD and further east towards MW-11D, than what is depicted in Figure 5A and 5B of the VIRP. This historical sampling may also be used to satisfy some of the delineation gaps noted in Section 3.5.1.

Response: As requested, the historical soil sampling data have been added to Figure 4 of the attached 1st Semiannual VRP Progress Report. Peachtree intends to perform soil excavation of the area depicted in Figure 11 on the attached report, which includes the area where the historical soil sampling has indicated that soil concentrations are greater than the Type 1 RRS. Confirmation samples will be collected from the excavation sidewalls and bottoms. In the event a soil confirmation sample indicates COCs exceeding applicable soil RRS, that location will be excavated and resampled to confirm compliance with applicable soil RRS.

Peachtree hopes the responses to your August 19, 2013 comments are both responsive and useful. Please feel free to contact either of the undersigned if you have any questions or require additional information.

Sincerely,

Peachtree Environmental

A handwritten signature in blue ink, appearing to read 'S. W. Hart', with a stylized flourish at the end.

Steven W. Hart, P.G.
Senior Project Manager

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Anthony J. Nievera
Project Director

**FIRST SEMIANNUAL VRP PROGRESS REPORT FOR THE
COLUMBIA COUNTY CAR CARE CENTER PROPERTY
MARTINEZ, COLUMBIA COUNTY, GEORGIA
HSI # 10394**

PROJECT NUMBER 3226

DOCUMENT PREPARED FOR:

**5C WASHINGTON ROAD, LLC
4014 WASHINGTON ROAD
MARTINEZ, COLUMBIA COUNTY, GEORGIA**

DOCUMENT SUBMITTED TO:

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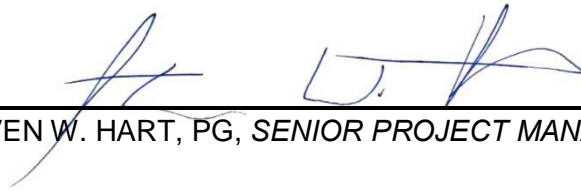


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MAY 2014

**FIRST SEMIANNUAL VRP PROGRESS REPORT FOR THE
COLUMBIA COUNTY CAR CARE CENTER PROPERTY
MARTINEZ, COLUMBIA COUNTY, GEORGIA
HSI#10394**

DOCUMENT PREPARED BY:

A handwritten signature in blue ink, appearing to read 'S. Hart', is positioned above a horizontal line.

STEVEN W. HART, PG, *SENIOR PROJECT MANAGER*

DOCUMENT REVIEWED BY:

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ANTHONY J. NIEVERA, *PROJECT DIRECTOR*

MAY 2014

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ACRONYMS

5C	Columbia County Car Care Center
AES	Analytical Environmental Services, Inc.
Applicant	Dr. Harinderjit Singh (%Singh+)
bgs	Below Ground Surface
bls	Below Land Surface
CAP	Corrective Action Plan
cis-1,2-DCE	cis-1,2-Dichloroethene
CSR	Compliance Status Report
CSM	Conceptual Site Model
EMNA	Enhanced Monitored Natural Attenuation
Georgia EPD	Georgia Environmental Protection Division
Georgia HWMA	Georgia Hazardous Waste Management Act
HRC	Hydrogen Releasing Compound
HSI	Hazardous Site Inventory
HSRA	Hazardous Site Response Act
HSRP	Hazardous Site Response Program
HWMA	Hazardous Waste Management Act
IRIS	Integrated Risk Information System
ISCO	In-situ Chemical Oxidation
MCL	Maximum Contaminant Levels
g/L	Micrograms per Liter (same as ppb)
mg/Kg	Milligrams per Kilogram (same as ppm)
mg/L	Milligrams per Liter (same as ppm)
NAPLS	Non-Aqueous Phase Liquids
NC	Notification Concentration
Peachtree	Peachtree Environmental
PCE	Tetrachloroethene
POD	Point of Demonstration
ppb	Parts per Billion
ppm	Parts per Million
PRE	Preliminary Risk Evaluation
Property	Columbia County Car Care Center (%5C+) Property
RAGS	Risk Assessment Guidance for Superfund
RBCA	Risk Based Corrective Action
REC	Recognized Environmental Conditions
RN	Release Notification
RQSM	Reportable Quantities Screening Method
RRS	Risk Reduction Standard
SVE	Soil Vapor Extraction
SVOCs	Semi-Volatile Organic Compounds
TCLP	Toxicity Characteristic Leaching Procedure
TCE	Trichloroethene
U.S. EPA	United States Environmental Protection Agency
USGS	United States Geological Survey
VIRP	Voluntary Investigation and Remediation Plan
VRP	Voluntary Remediation Program
VOCs	Volatile Organic Compounds

1.0 INTRODUCTION AND BACKGROUND

1.1 INTRODUCTION

PEACHTREE ENVIRONMENTAL (Peachtree) is submitting this Voluntary Remediation Program (VRP) Semiannual Progress Report for the Columbia County Car Care Center (~~5C+~~) property (Hazardous Site Inventory No. 10394) located at 4014 Washington Road, in Martinez, Columbia County, Georgia (the ~~VRP PROPERTY~~) on behalf of the **APPLICANT**, Dr. Harinderjit Singh and 5C Washington Road, LLC. This is the first VRP Semiannual Progress Report for the VRP Property and describes activities conducted at the property since acceptance into the VRP in August 2013.

1.2 VRP PROPERTY DESCRIPTION

The VRP Property consists of two parcels of land totaling approximately 1.78 acres, which is more fully described as follows:

" 4014 Washington Road - Parcel ID: 079 133 (1.78 Acres).

The VRP Property has a latitude coordinate of 33°30'36.09" North and a longitude coordinate of 83°06'11.25" West. A VRP Property Location / USGS Topographic Map is included as **Figure 1**.

The VRP Property is developed with two one-story buildings and is currently utilized as an automobile repair facility (Performance Plus Transmission) and an automobile window repair facility. The Site is bordered by:

- " North - Washington Road with Commercial strip mall property (restaurant and retail establishments);
- " East . Commercial property (former Blockbuster Video);
- " South . Commercial strip mall property (restaurant and retail establishments); and
- " West . Columbia Square Shopping Center (including the former Vogue Cleaners).

A VRP Property Layout Map is provided as **Figure 2**.

1.3 PROPERTY HISTORY

The VRP Property has operated as various retail automobile repair facilities dating back to 1988. Automotive repair activities performed on the VRP Property have ranged from transmission and engine repair to routine maintenance and oil change operations.

The VRP Property was sub-listed with the adjacent former Vogue Cleaners on the Hazardous Site Inventory (HSI) as Site No. 10394 on February 3, 2000 due to a release of tetrachloroethene (PCE) at Vogue Cleaners. PCE has not been used at the VRP Property. However, in a 1996 Notification of Regulated Waste Activity Form submitted to the U.S. Environmental Protection Agency (EPA) by Performance Plus Transmission, the auto repair shop located on the VRP Property erroneously included the waste code for PCE. In a May 2007 notarized letter, Mr. Glenn Tanner, the owner and operator of Performance Plus Transmission, clarified that the business had never used or stored PCE or any chlorinated solvents on the VRP Property.

Descriptions of previous assessments conducted at the VRP Property and of significant regulatory correspondence are provided in the following Sections.

1.3.1 February 2007 Limited Subsurface Investigation

On February 9, 2007, J. Dunaway & Co performed a limited subsurface investigation to assess whether a source of PCE was originating from the VRP Property in and around soil boring locations WESB-26 and WESB-40, which had previously been advanced on the VRP Property as a part of the former Vogue CleanersqCSR investigation (see **Figure 3**). Five soil borings (SB-1 through SB-5) were installed on the VRP Property (**Figure 3**). Based on the analytical results, PCE was detected at concentrations ranging from 0.054 mg/Kg to 8.33 mg/Kg.

1.3.2 August 2012 Soil and Groundwater Sampling Activities

In August 2012, Peachtree initiated a limited soil and groundwater investigation at the VRP Property. The investigation consisted of the following:

- “ The collection of groundwater samples from the seven existing on-site monitoring wells (MW-5D, MW-5DD, MW-10, MW-10D, MW-11D, MW-15, and MW-15D) for analysis of Volatile Organic Compounds (VOCs) via EPA Method 8260B.
- “ The installation of a monitoring well (PMW-1) and subsequent collection of a groundwater sample for analysis of VOCs via EPA Method 8260B.
- “ Advancement of eight direct-push soil borings (DP-1 through DP-8). Soil samples with significant photoionization detector (PID) field readings were submitted to the laboratory for analysis of VOCs via EPA Method 8260B.

In February 2013, a Voluntary Investigation and Remediation Plan (VIRP) and VRP Application were submitted for the site utilizing data collected in August 2012. Georgia EPD approved the VRP Application in February 2013.

2.0 PRELIMINARY CONCEPTUAL SITE MODEL

A Conceptual Site Model (CSM) has been developed for the VRP Property. The CSM is utilized to:

- Integrate technical data from various sources;
- Support the selection of sample locations;
- Identify data gaps/needs; and
- Evaluate risks to human health and the environment.

The following provides a description of the various factors (surface/sub-surface setting, regulated substances, known or suspected source areas, contaminant migration pathways, and soil and groundwater impacts) considered during the development of the CSM.

2.1 SURFACE AND SUB-SURFACE SETTING

2.1.1 Surface Setting

The VRP Property contains two single-story garage-style buildings, both constructed of cinder block and situated on a concrete slab. The parking lot and driveway are paved with asphalt. Grassed and landscaped areas are present to the north and east of the on-site buildings. The property is designated for commercial/retail use.

2.1.2 Subsurface Setting

The VRP Property is situated on the western side of a broad ridge top. The ridge is dissected to the west by Reed Creek, a north-flowing tributary to the Savannah River, and to the east by numerous named and unnamed tributaries to the Savannah River. Reed Creek is approximately 0.5 miles west of the VRP Property and the Savannah River is approximately 6 miles to the east of the VRP Property.

The VRP Property lies along the geologic and physiographic boundary known as the Fall Line. Geologically, the Fall Line is the contact between the Cretaceous and younger sediments of the Coastal Plain Physiographic Province to the south and the older, crystalline rocks of the Piedmont Province to the north. Several stream characteristics change as they flow south across the Fall Line: rapids and shoals are common near the geologic contact, floodplains are considerably wider on the younger sediments, and the frequency of stream meanders increases.

The gently undulating surface of the Washington Slope District of the Piedmont Province occurs north of the Fall Line. Streams in this district occupy broad, shallow valleys with long gentle side slopes separated by broad, rounded divides (Clark and Zisa, 1976). The Fall Line Hills District of the Coastal Plain Province occurs south of the Fall Line and is highly dissected with little level land except marshy floodplains and their better drained, narrow stream terraces (Clark and Zisa, 1976).

Bedrock in nearby portions of the Washington Slope District, and underlying the unconsolidated sediments of the Fall Line Hills, is an imbricate complex of coarse-grained biotitic metagraywackes, pebbly mudstones, semischists, and thin beds of chert (Higgins

et al., 1988). The bedrock is covered by unconsolidated saprolite, alluvium, and soil, collectively referred to as regolith, and occurs at depths of approximately 85 to 110 feet below ground surface in the area. The bedrock and its regolith are the uppermost subsurface units in the Washington Slope District. South of the Fall Line, the bedrock and regolith are overlain by unconsolidated sediments of the Coastal Plain, except where removed by erosion along stream valleys, such as Reed Creek to the west of the VRP Property. The Coastal Plain sediments consist of undifferentiated Cretaceous strata overlain by white to cream, buff, and gray, medium- to coarse-grained, cross-bedded, fossiliferous, kaolinitic sand of the Huber Formation of Paleocene and Eocene age (Buie, 1978).

Soil beneath the VRP Facility consists of the Wagram loamy sand (NRCS, 2014), a deep, well-drained, very gently sloping soil that forms from marine sediments, such as the Huber Formation, and occurs on broad ridge tops (USDA, 1981). The contact between the Wagram loamy sand and the adjacent Bibb silt loam, a deep, poorly drained, nearly level soil that forms from alluvial sediments on floodplains, coincides with the western boundary of the VRP Property (NRCS, 2014). Further west, soils along Reed Creek consist of Cecil sandy clay loam. The Cecil soil formed from residuum weathered from Piedmont Province metamorphic bedrock (USDA, 1981).

Based on the topographic setting of the VRP Property, the soils present beneath the site, and published geologic maps of the area, it appears that the VRP Property is located over Coastal Plain sediments. Crystalline rock of the Piedmont Province occurs beneath the Coastal Plain sediments and at the ground surface in areas of lower elevations, such as the valley of Reed Creek to the west. The Fall Line, the contact between the Coastal Plain sediment and bedrock of the Piedmont Province, is overlain by the alluvium-derived soil (Bibb silt loam) west of the VRP Property.

Shallow groundwater occurs under water table (unconfined) conditions beneath the VRP Property. In October 2013, depths to groundwater were measured from the surveyed top of well casings and ranged between 1.72 ft-bgs (MW-5DD) and 7.45 ft-bgs (PMW-1). Groundwater elevations collected in August 2012 and October 2013 are summarized on **Table 1**. Groundwater flow appears to be influenced by the pumping wells currently located on the adjacent Vogue Cleaners property. A groundwater elevation map utilizing data collected on October 15, 2013 is included as **Figure 3**.

2.2 KNOWN OR SUSPECTED SOURCE AREAS

The VRP Property has operated as an automobile repair facility dating back to 1988. Chlorinated solvents were not used on the Property, and 5C maintains that the listing of chlorinated solvents on a 1996 Notification of Regulated Waste Activity form was an error.

Based on previous investigations, knowledge of how the area was developed, and the results of the August 2012 subsurface investigation, Peachtree understands that PCE-impacted soil from the Vogue Cleaners site was used to fill in low areas near the VRP Property's western boundary with Columbia Square Shopping Center during 1988 pre-construction grading activities. The suspected source areas (Vogue Cleaners and on-site impacted fill/soils) are depicted on **Figure 4**.

2.3 REGULATED SUBSTANCES

As previously discussed (Section 1.3.2), Peachtree conducted a soil and groundwater investigation at the VRP Property in August 2012. The most recent groundwater sampling event was performed in October 2013. Based on the soil and groundwater data, the following regulated substances were detected above the laboratory MDL:

- ▶ PCE (CAS No. 127184); - Soil/Groundwater;
- ▶ Trichloroethene (TCE) (CAS No. 79016); - Soil; and
- ▶ cis-1,2-Dichloroethene (cis-1,2-DCE) (CAS No. 156592); - Soil/Groundwater.

2.3.1 Regulated Substances in Soil

PCE, TCE, and cis-1,2-DCE were detected in soil above the laboratory reporting limit during Peachtree's August 2012 investigation, with PCE detected above its Type 1 RRS. No other regulated substances were detected above their respective Type 1 RRS in soil during Peachtree's August 2012 investigation. The regulated substances detected in soil and their respective Type 1 Risk Reduction Standards are provided below:

REGULATED CONSTITUENT	HIGHEST DETECTED CONCENTRATION (SOIL SAMPLE - DEPTH)	TYPE 1 RRS (MG/KG)
PCE	19 mg/Kg (DP-7- 0-2')	0.5
TCE	0.090 mg/Kg (DP-3-3q)	0.5
cis-1,2-DCE	3.6 mg/Kg (DP-3-6q)	7.0

NOTES: 1) **Bolded** constituents exceed Type 1 RRS.

The August 2012 soil analytical results and soil RRSs are summarized in **Table 2**. The August 2012 soil sample locations and extent of PCE detected in soil at depths less than 2 feet below ground surface (ft-bgs) and greater than 2 ft-bgs are shown in **Figure 5A** and **Figure 5B**, respectively. The extent of TCE and cis-1,2-DCE in soil are not graphically displayed as the extent of their distribution is less than that of PCE.

Peachtree anticipates performing soil excavation within the area of impact. Soil confirmation samples will be collected from the excavation sidewalls as well as in locations outside the excavation where historic soil samples indicated constituent impacts over Type 1 RRS. The details of these proposed activities are discussed further in the Preliminary Remediation Plan (Section 4.0).

2.3.2 Regulated Substances in Groundwater

PCE is the only substance that has been detected in groundwater at the VRP Property above its Type 1 RRS. Historically, the maximum concentration of PCE detected at the VRP Property was 250 µg/L in groundwater from monitoring well PMW-1 (August 2012). PCE has been detected in the groundwater sample from MW-11D at a maximum concentration of 6.5 ug/L.

Degradation products of PCE are generally not present in groundwater at the VRP Property. TCE and vinyl chloride have not been detected in groundwater samples. However, cis-1,2-DCE was detected in the groundwater sample from MW-11D at a concentration (17 µg/L) below the Type 1 RRS (70 µg/L) during the recent (October 2013) groundwater monitoring event. No other regulated substances were detected above the laboratory reporting limits in groundwater during Peachtree's August 2012 and October 2013 groundwater monitoring events.

The groundwater monitoring well locations and extent of PCE and cis-1,2-DCE detected in groundwater during the October 2013 investigation are depicted on **Figures 6 and 7**, respectively. In order to illustrate off-site groundwater conditions, August 2013 groundwater analytical data from the Vogue Cleaners site (Genesis Project, Inc., 2013) is included in **Figures 6 and 7**.

2.4 EXPOSURE PATHWAYS

Figure 8 presents the key features of the VRP Property, including the location of cross section A-A and B-B. **Figures 9A and 9B** present the preliminary 3-D CSM via Cross-Sections A-A and B-B.

The VRP Property is developed with two one-story buildings currently utilized as an automobile repair and automobile window repair facility. The site has been utilized as an automobile repair facility dating back to 1988 and is anticipated to be used as such in the future. The adjacent properties are used for commercial (retail and restaurant) purposes.

Currently, direct exposure does not occur to contaminated soil because the VRP Property is covered by buildings and by asphalt parking areas, except for some small landscaped traffic islands along Washington Road and to the east. Regulated substances in soil may leach to groundwater, although the potential for leaching is greatly reduced by the soil covers. The soil covers also preclude erosion or runoff of the impacted soil by stormwater, as well as incidental ingestion or inhalation of wind-borne soil particles.

There is no current exposure to regulated substances in groundwater. The VRP Property receives its potable water from the Columbia County Water Utility. Regulated substances in groundwater may migrate off site to surface water. The nearest surface water body to the VRP Property is Reed Creek approximately 0.5 miles to the west, but groundwater monitoring data does not indicate that regulated substances have migrated that distance.

PCE and cis-1,2-DCE are the only VOCs that have been detected in groundwater, with a maximum historical concentration of PCE of 250 µg/L (cis-1,2-DCE has been detected at concentrations below its Type 1 RRS). Using the US EPA Vapor Intrusion Screening Level (VISL) calculator and the historical PCE concentration of 250 µg/L, the carcinogenic risk associated with vapor intrusion of PCE into the buildings at the VRP Property is 3.8×10^{-6} , less than Georgia EPD's 1×10^{-5} threshold. The non-carcinogenic Hazard Quotient is 1.0, equal to the Georgia EPD's threshold. Further, the maximum concentration of PCE in VRP Property groundwater was 6 µg/L during the most recent (October 2013) sampling. Therefore, although vapor intrusion is potentially a complete pathway, the risk associated with this pathway does not exceed acceptable levels.

2.6.1 Current Land Use

Current on-site receptors at the VRP Property potentially include site workers, customers, utility workers, construction workers, and trespassers. Currently, site workers, customers, and trespassers are not exposed to soil, as the property is covered by buildings and by asphalt parking areas, except for some small landscaped traffic islands along Washington Road. There is no on-going construction or utility work at the property requiring construction- or utility-worker receptors.

Groundwater exposure is not a current pathway because the VRP Property receives its potable water from the City. Off-site receptors in the area also receive their drinking water from the City. Direct contact to shallow groundwater is precluded by the on-site buildings and asphalt parking areas.

Current site workers and customers may be exposed to regulated substances by inhalation of vapors intruding into on-site buildings. However, the risk associated with potential vapor intrusion does not exceed Georgia EPD's thresholds. Therefore, although vapor intrusion is potentially a complete pathway, the risk associated with this pathway does not exceed acceptable levels.

2.6.2 Future Land Use

The VRP Property is likely to remain a commercial automobile repair facility or similar commercial operation in the future, and the current exposure pathways will remain the same. Future site workers, customers, and trespassers are not expected to be exposed to soil, as the property will likely remain covered by buildings and by asphalt parking areas. However, if there is new construction or utility work in the future, construction- or utility-worker receptors may be exposed to soil.

The VRP Property and off-site receptors will likely continue to receive their potable water from the City in the future. Future off-site receptors in the area will also receive their drinking water from the City. However, it is understood that Georgia EPD considers all groundwater a potential future source of groundwater, so future exposure to groundwater by site workers, customers, utility workers, construction workers, and off-site receptors is considered. Therefore, the complete exposure pathways for future land use are as follows:

- Soil Exposure . Future Construction Worker
- Soil Exposure . Future Utility Worker
- Groundwater Exposure . Future Site Workers
- Groundwater Exposure . Future Customers
- Groundwater Exposure . Future Utility Workers
- Groundwater Exposure . Future Off-Site Receptors

2.6.3 Ecological Receptors

The VRP Property is covered by buildings and by asphalt parking areas, except for some small landscaped traffic islands along Washington Road. Therefore, there are no viable ecological habitats on the VRP Property. The soil covers prevent migratory species such as birds from coming into contact with impacted soil, and there is no surface water on the VRP Property.

The VRP Property is located in the Sand Hills ecoregion of the Southeastern Plains of Georgia (Georgia DNR, 2014), a narrow, rolling to hilly, highly dissected belt stretching across the state from Augusta to Columbus. Many of the droughty, low-nutrient soils of the Sand Hills formed in thick beds of sand, although soils in some areas contain more loamy and clayey horizons. On the drier sites, turkey oak and longleaf pine are dominant, while shortleaf-loblolly pine forests and other oak-pine forests are common throughout the region. However, other than the small landscaped traffic islands along Washington Road, there is no vegetation on the VRP Property.

Due to the lack of ecological habitats and lack of exposure of contaminated media to migratory species, there are no complete pathways for ecological receptors.

3.0 2013 SEMI-ANNUAL GROUNDWATER MONITORING ACTIVITIES

Peachtree completed semi-annual groundwater monitoring activities at the VRP Property in October 2013. This data has been utilized for the preparation of figures and tables depicting the delineation of impacted groundwater. Water level gauging and groundwater sampling activities were conducted on October 15, 2013. The monitoring well locations are depicted on **Figure 2**. A complete copy of the October 2013 groundwater analytical testing results is provided in **Appendix A**.

Groundwater monitoring wells were sampled to evaluate the extent and concentration of the existing groundwater plume. Peachtree collected groundwater samples from the eight existing monitoring wells (MW-5D, MW-5DD, MW-10, MW-10D, MW-11D, MW-15, MW-15D, and PMW-1). Groundwater samples from each of the monitoring wells were analyzed for VOCs via EPA Method 8260B.

3.1 GROUNDWATER ELEVATION

Water level information from the October 2013 sampling event is summarized in **Table 1**. The water level data was used to calculate the volume of water to be purged from each well prior to sample collection, as well as the static groundwater elevation in each well. Prior to well purging and sampling, the depth to water in each monitoring well was measured from the top of the casing using an electronic water-level indicator. Each well measurement was recorded to one-hundredth of a foot. The well data was recorded on field logs which are included in the field notes in **Appendix B**. The groundwater elevation of each monitoring well was utilized to prepare a groundwater table map for the October 2013 sampling event, included as **Figure 3**.

3.2 WELL PURGING

Well purging and sampling activities were conducted in general accordance with the U.S. Environmental Protection Agency (EPA) Science and Ecosystem Support Division (SESD) Operating Procedure (OP) for Groundwater Sampling (SESDPROC-301-R3, March 2013). Prior to sample collection, each of the wells was purged to remove stagnant water from the screened portion of the well and to allow for the collection of groundwater samples that are representative of the surrounding formation. Individual monitoring well purge volumes were calculated as follows:

$$\text{Depth of well (feet)} - \text{Static water level (feet)} = \text{Column of water (feet)}$$

$$\text{Column of water (feet)} \times 0.17 \text{ gallons/foot} \times 3 = \text{Gallons of water to purge}$$

Purging was accomplished using a peristaltic pump equipped with disposable tubing. During the well purging process, discrete samples were collected at predetermined intervals and analyzed for field parameters which included temperature, pH, specific conductance, turbidity, dissolved oxygen (DO), and oxidation-reduction potential (ORP). The results of these measurements are presented on the field notes in **Appendix B**. The wells were purged of a minimum of three well volumes, until field parameters stabilized, or until the wells were purged dry, whichever occurred first.

3.3 SAMPLING PROCEDURES

Groundwater sampling was conducted in general accordance with procedures outlined in SESD Operating Procedures for Groundwater Sampling (SESDPROC-301-R3, March 2013). Groundwater samples were collected from the peristaltic and/or submersible pump following well purging and appropriate recharge. Copies of the data recorded during purging activities are included in the Field Water Quality Sampling Forms shown in **Appendix B**.

Required sample volumes, types of containers, sample preservatives, and holding times followed guidelines presented in SESD guidelines. Sample containers were labeled and placed on ice in coolers to maintain a temperature of 4° C. Chain-of-Custody procedures were used to record and document sample times and changes of possession.

3.4 DECONTAMINATION PROCEDURES

Downhole and/or re-usable field monitoring and/or sampling equipment was decontaminated between monitoring/sampling locations in general accordance with the SESD Operating Procedures for Field Equipment and Decontamination (SESDPROC-205-R2, December 2011).

3.5 ANALYTICAL PROCEDURES

Samples collected from each of the monitoring wells were analyzed for VOCs via EPA Method 8260B. After collection, sample coolers were delivered to Analytical Environmental Services, Inc. (AES) located in Atlanta, Georgia under Chain-of-Custody protocol for laboratory analyses for VOCs.

3.6 ANALYTICAL RESULTS

A summary of the historic groundwater analytical data, including the October 2013 groundwater analytical results and groundwater RRS, is provided in **Table 3**. A complete copy of the October 2013 groundwater analytical testing results is provided in **Appendix A**.

Two VOCs (PCE and cis-1,2-DCE) were reported at concentrations in excess of the laboratory reporting limit during the October 2013 sampling event. PCE, previously detected at a concentration of 250 µg/L in groundwater from monitoring well PMW-1 in August 2012, was not detected in the PMW-1 sample in October 2013. The maximum concentration of PCE (6.0 µg/L) during the October 2013 sampling event was detected in the groundwater sample from monitoring well MW-11D, and was the only substance detected above its Type 1 RRS (5 µg/L). cis-1,2-DCE was detected in groundwater from monitoring well PMW-1 at a concentration of 17 µg/L, below the Type 1 RRs of 70 µg/L.

Horizontal Extent of Impacted Groundwater

The extent of PCE and cis-1,2-DCE detected in groundwater during the October 2013 sampling event are depicted on **Figures 6** and **7**, respectively. In order to illustrate the off-site groundwater conditions, August 2013 groundwater analytical data from the Vogue Cleaners site (Genesis Project, Inc., 2013) is included in **Figures 6** and **7**.

Vertical Extent of Impacted Groundwater

The vertical extent of impacted groundwater has been defined at the VRP Property, based on the absence of VOCs in groundwater from deep monitoring well MW-5DD.

3.7 GROUNDWATER COMPLIANCE

Two HSRA-regulated substances have historically been detected in groundwater samples collected at the VRP Property. The regulated substances detected in groundwater and their respective Type 1 Risk Reduction Standards are provided below:

REGULATED CONSTITUENT	HIGHEST DETECTED CONCENTRATION (MONITORING WELL - DATE)	OCTOBER 2013 CONCENTRATION	TYPE 1 RRS (µG/L)
PCE	250 ug/L (PMW-1 – 8/30/12) 6.5 ug/L (MW-11D – 8/29/12)	<5.0 ug/L (PMW-1) 6.0 ug/L (MW-11D)	5.0
cis-1,2-DCE	17 ug/L (PMW-1 . 10/15/13)	17 ug/L	70

NOTES: 1) **Bolded** constituents exceed Type 1 RRS.

As indicated above, the only HSRA-regulated substances detected above applicable groundwater RRS during the October 2013 sampling event was PCE. PCE was not detected in any of the remaining monitoring wells above laboratory reporting limits.

4.0 PRELIMINARY REMEDIATION PLAN

Types 1 through 4 RRS have been calculated for the substances detected in soil and in groundwater. The calculations are provided in **Appendix C**. Although calculations have been provided for Types 2 through 4 RRS, the Applicant intends on remediating soil and groundwater to Type 1 RRS, unless technically impracticable.

PCE has historically been detected in groundwater at the VRP Property in excess of the Type 1 RRS at PMW-1 and MW-11D. However, the October 2013 groundwater monitoring results demonstrate that groundwater at PMW-1 is now in compliance with the Type 1 RRS, and groundwater at MW-11D is within 1 µg/L of compliance with the Type 1 RRS. The June 2014 groundwater sampling may demonstrate that both wells are now in compliance with the Type 1 RRS, in which case groundwater remediation or additional assessment of groundwater will not be necessary.

Based on the August 2012 soil analytical results, Peachtree has determined that PCE on the VRP Property exceeds the Type 1 RRS in a small area with an approximate surface area of 30 ft. by 30 ft., and extends vertically to an approximate depth of 6 feet below ground surface.

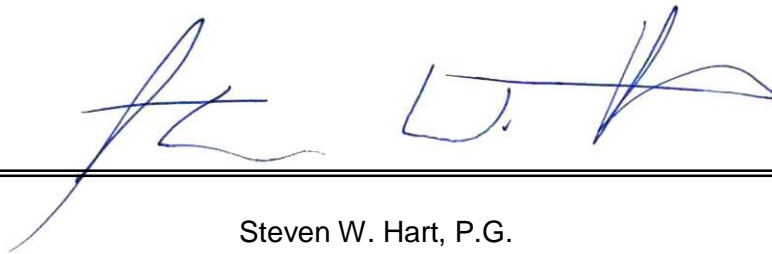
Peachtree proposes to excavate impacted soils in excess of applicable RRS. Excavated material will be placed directly into transportation vehicles (i.e., dump trucks or trailers) or a roll-off box for off-site disposal. As stated above, the current estimated area of the excavation area is 30 ft. x 30 ft. Confirmation soil samples will be collected along the sidewalls at a frequency of one sample for every 20 linear feet of sidewall and at the bottom of the excavation, at an approximate rate of one sample for every 500 square feet. The excavation will proceed further if post-excavation analytical testing results exceed the applicable RRS, with additional verification samples collected following over-excavation (i.e., any soils exceeding the appropriate RRS will be remediated). In the instance that excavation proceeds to the shallow, surficial water table, no further vertical excavation will occur. Currently, Peachtree estimates approximately 200 cubic yards (or 300 tons) of soil will be excavated from the VRP Property. The estimated area requiring excavation is illustrated on **Figure 10**.

The next groundwater sampling event is scheduled for June 2014. The results of the August 2014 groundwater sampling will be provided in the next (2nd) VRP Semiannual Progress Report.

Upon completion of the June 2014 groundwater sampling activities, Peachtree will evaluate the data and, if appropriate, make arrangements for access and installation of an additional horizontal delineation well. The location of the proposed on-site horizontal delineation well is illustrated on **Figure 10**.

5.0 CERTIFICATION

I certify that I am a qualified groundwater scientist who has received a baccalaureate or post graduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by me or by a subordinate working under my direction. +



Steven W. Hart, P.G.
Georgia Registration No. 660

A monthly summary of Professional Engineer/Geologist hours expended as part of the initial application and this semi-annual progress report is included as **Appendix D**.

6.0 REFERENCES

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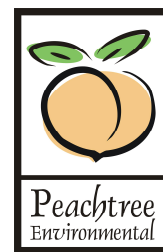
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TABLES

Columbia County Car Care Center
4014 Washington Road, Martinez, Georgia
HSI # 10394

TABLE 1
Summary of Water Level Measurements

Well I.D.	Date	Top of Casing Elevation (feet)	Total Well Depth (feet)	Depth to Groundwater (feet)	Water Level Elevation (feet)
MW-5D	08/30/12	365.66	36.60	7.75	357.91
	10/15/13			7.41	358.25
MW-5DD	08/30/12	365.70	76.51	5.34	360.36
	10/15/13			1.72	363.98
MW-10	08/30/12	NS	13.89	6.82	NS
	10/15/13			6.81	NS
MW-10D	08/30/12	364.37	28.04	6.18	358.19
	10/15/13			6.06	358.31
MW-11D	08/30/12	365.81	32.75	7.72	358.09
	10/15/13			7.30	358.51
MW-15	08/30/12	365.57	13.75	7.55	358.02
	10/15/13			7.38	358.19
MW-15D	08/30/12	365.54	28.79	7.25	358.29
	10/15/13			7.00	358.54
PMW-1	08/30/12	365.42	20.72	7.98	357.44
	10/15/13			7.45	357.97

NOTES:

1. Top of casing elevations based on survey data collected by Williams/Genesis
2. NS - Well not surveyed at time of water level measurement

Columbia County Car Care Center
4014 Washington Road, Martinez, Georgia
HSI # 10394

TABLE 2
August 2012 Soil Analytical Summary

SAMPLE DESIGNATION	TYPE 1 RRS	DP-1 (0-2')	DP-1-3'	DP-1-5'	DP-2 (0-2')	DP-2-5'	DP-2-6'	DP-3 (0-2')	DP-3-3'	DP-3-5'	DP-3-6'	DP-4 (0-2')	DP-4-5'	DP-5 (0-2')	DP-5-3'	DP-5-6'	DP-6 (0-2')	DP-6-5'
		8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012
Volatile Organics (mg/kg)																		
1,1,1-Trichloroethane	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
1,1,2,2-Tetrachloroethane	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
1,1,2-Trichloroethane	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
1,1-Dichloroethane	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
1,1-Dichloroethene	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
1,2,4-Trichlorobenzene	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
1,2-Dibromo-3-chloropropane	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
1,2-Dibromoethane	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
1,2-Dichlorobenzene	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
1,2-Dichloroethane	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
1,2-Dichloropropane	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
1,3-Dichlorobenzene	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
1,4-Dichlorobenzene	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
2-Butanone	--	<0.063	<0.090	<0.066	<0.059	<0.030	<0.030	<0.14	<0.087	<0.11	<0.064	<0.029	<0.034	<0.077	<0.060	<0.088	<0.056	<0.085
2-Hexanone	--	<0.013	<0.018	<0.013	<0.012	<0.0059	<0.0053	<0.027	<0.017	<0.023	<0.013	<0.0058	<0.0069	<0.015	<0.012	<0.018	<0.011	<0.017
4-Methyl-2-pentanone	--	<0.013	<0.018	<0.013	<0.012	<0.0059	<0.0053	<0.027	<0.017	<0.023	<0.013	<0.0058	<0.0069	<0.015	<0.012	<0.018	<0.011	<0.017
Acetone	--	<0.13	<0.18	<0.13	<0.12	<0.059	<0.053	<0.27	<0.17	<0.23	<0.13	<0.058	<0.069	<0.15	<0.12	<0.18	<0.11	<0.17
Benzene	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
Bromodichloromethane	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
Bromoform	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
Bromomethane	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
Carbon disulfide	--	<0.013	<0.018	<0.013	<0.012	<0.0059	<0.0053	<0.027	<0.017	<0.023	<0.013	<0.0058	<0.0069	<0.015	<0.012	<0.018	<0.011	<0.017
Carbon tetrachloride	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
Chlorobenzene	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
Chloroethane	--	<0.013	<0.018	<0.013	<0.012	<0.0059	<0.0053	<0.027	<0.017	<0.023	<0.013	<0.0058	<0.0069	<0.015	<0.012	<0.018	<0.011	<0.017
Chloroform	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
Chloromethane	--	<0.013	<0.018	<0.013	<0.012	<0.0059	<0.0053	<0.027	<0.017	<0.023	<0.013	<0.0058	<0.0069	<0.015	<0.012	<0.018	<0.011	<0.017
cis-1,2-Dichloroethene	7.00	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	0.035	1.7	3.6	0.024	<0.0029	0.0084	0.012	0.052	<0.0088	<0.0056	0.010
cis-1,3-Dichloropropene	-	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
Cyclohexane	-	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
Dibromochloromethane	-	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
Dichlorodifluoromethane	-	<0.013	<0.018	<0.013	<0.012	<0.0059	<0.0053	<0.027	<0.017	<0.023	<0.013	<0.0058	<0.0069	<0.015	<0.012	<0.018	<0.011	<0.017
Ethylbenzene	-	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
Freon-113	-	<0.013	<0.018	<0.013	<0.012	<0.0059	<0.0053	<0.027	<0.017	<0.023	<0.013	<0.0058	<0.0069	<0.015	<0.012	<0.018	<0.011	<0.017
Isopropylbenzene	-	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
m,p-Xylene	-	<0.013	<0.018	<0.013	<0.012	<0.0059	<0.0053	<0.027	<0.017	<0.023	<0.013	<0.0058	<0.0069	<0.015	<0.012	<0.018	<0.011	<0.017
Methyl acetate	-	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
Methyl tert-butyl ether	-	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
Methylcyclohexane	-	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
Methylene chloride	-	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
o-Xylene	-	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
Styrene	-	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
Tetrachloroethene	0.500	3.2	0.58	<0.0066	0.048	0.24	0.027	0.46	1.1	8.0	0.13	0.0037	0.088	0.11	2.0	0.025	1.7	0.086
Toluene	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
trans-1,2-Dichloroethene	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
trans-1,3-Dichloropropene	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
Trichloroethene	0.500	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	0.090	0.053	<0.0064	<0.0029	<0.0034	<0.0077	0.020	<0.0088	<0.0056	<0.0085
Trichlorofluoromethane	--	<0.0063	<0.0090	<0.0066	<0.0059	<0.0030	<0.0026	<0.014	<0.0087	<0.011	<0.0064	<0.0029	<0.0034	<0.0077	<0.0060	<0.0088	<0.0056	<0.0085
Vinyl chloride	--	<0.013	<0.018	<0.013	<0.012	<0.0059	<0.0053	<0.027	<0.017	<0.023	<0.013	<0.0058	<0.0069	<0.015	<0.012	<0.018	<0.011	<0.017

NOTES:

Bolded numbers denote concentrations above laboratory detection limits
 Bolded and bracketed numbers denote concentrations above Type 1 RRS

TABLE 2
August 2012 Soil Analytical Summary

SAMPLE DESIGNATION	TYPE 1 RRS	DP-7 (0-2')	DP-7-5'	DP-8 (0-2')	DP-8-3'	DP-8-6'
SAMPLE DATE		8/30/2012	8/30/2012	8/30/2012	8/30/2012	8/30/2012
Volatile Organics (mg/kg)						
1,1,1-Trichloroethane	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
1,1,2,2-Tetrachloroethane	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
1,1,2-Trichloroethane	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
1,1-Dichloroethane	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
1,1-Dichloroethene	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
1,2,4-Trichlorobenzene	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
1,2-Dibromo-3-chloropropane	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
1,2-Dibromoethane	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
1,2-Dichlorobenzene	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
1,2-Dichloroethane	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
1,2-Dichloropropane	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
1,3-Dichlorobenzene	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
1,4-Dichlorobenzene	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
2-Butanone	--	<0.082	<0.085	<0.067	<0.063	<0.068
2-Hexanone	--	<0.016	<0.017	<0.013	<0.013	<0.014
4-Methyl-2-pentanone	--	<0.016	<0.017	<0.013	<0.013	<0.014
Acetone	--	<0.16	<0.17	<0.13	<0.13	<0.14
Benzene	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
Bromodichloromethane	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
Bromoform	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
Bromomethane	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
Carbon disulfide	--	<0.016	<0.017	<0.013	<0.013	<0.014
Carbon tetrachloride	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
Chlorobenzene	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
Chloroethane	--	<0.016	<0.017	<0.013	<0.013	<0.014
Chloroform	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
Chloromethane	--	<0.016	<0.017	<0.013	<0.013	<0.014
cis-1,2-Dichloroethene	7.00	0.0090	0.012	<0.0067	0.062	<0.0068
cis-1,3-Dichloropropene	-	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
Cyclohexane	-	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
Dibromochloromethane	-	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
Dichlorodifluoromethane	-	<0.016	<0.017	<0.013	<0.013	<0.014
Ethylbenzene	-	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
Freon-113	-	<0.016	<0.017	<0.013	<0.013	<0.014
Isopropylbenzene	-	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
m,p-Xylene	-	<0.016	<0.017	<0.013	<0.013	<0.014
Methyl acetate	-	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
Methyl tert-butyl ether	-	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
Methylcyclohexane	-	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
Methylene chloride	-	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
o-Xylene	-	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
Styrene	-	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
Tetrachloroethene	0.500	19	0.098	0.10	2.5	0.16
Toluene	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
trans-1,2-Dichloroethene	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
trans-1,3-Dichloropropene	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
Trichloroethene	0.500	<0.0082	<0.0085	<0.0067	0.031	<0.0068
Trichlorofluoromethane	--	<0.0082	<0.0085	<0.0067	<0.0063	<0.0068
Vinyl chloride	--	<0.016	<0.017	<0.013	<0.013	<0.014

NOTES:

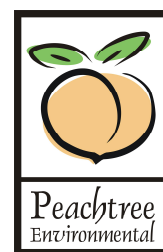
Bolded numbers denote concentrations above laboratory

Bolded and bracketed numbers denote concentrations >

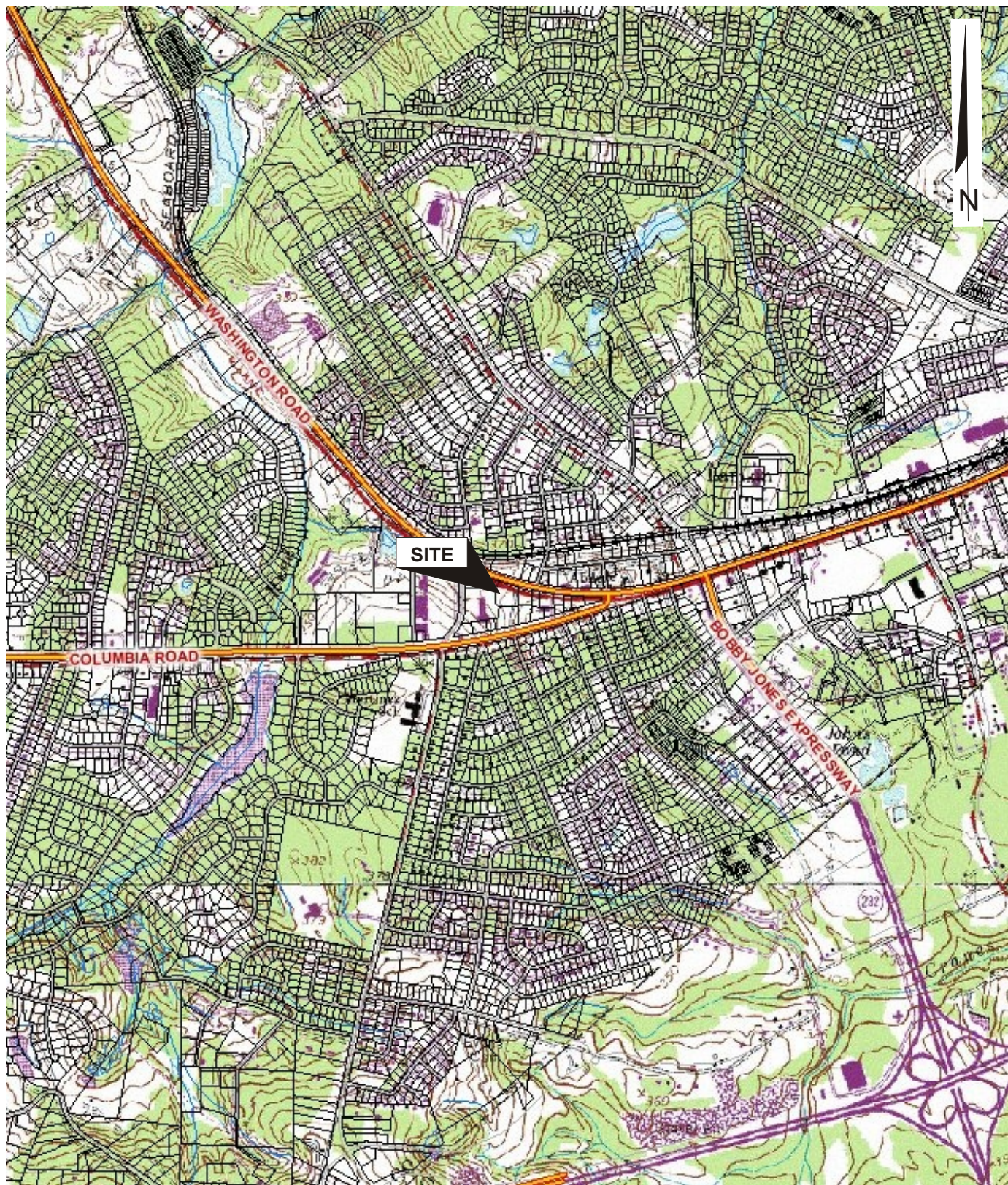
TABLE 3
Groundwater Analytical Summary Table

SAMPLE DESIGNATION	TYPE 1 RRS	MW-5D		MW-5DD		MW-10		MW-10D		MW-11D		MW-15		MW-15D		PMW-1	
SAMPLE DATE		8/29/2012	10/15/2013	8/29/2012	10/15/2013	8/29/2012	10/15/2013	8/29/2012	10/15/2013	8/29/2012	10/15/2013	8/29/2012	10/15/2013	8/29/2012	10/15/2013	8/30/2012	10/15/2013
Volatile Organics (µg/L)																	
1,1,1-Trichloroethane	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone	--	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
2-Hexanone	--	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone	--	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	--	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	--	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	--	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
cis-1,2-Dichloroethene	70	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	17
cis-1,3-Dichloropropene	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cyclohexane	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	--	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethylbenzene	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Freon-113	--	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Isopropylbenzene	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
m,p-Xylene	--	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl acetate	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylcyclohexane	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene chloride	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
o-Xylene	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	6.5	6.0	<5.0	<5.0	<5.0	<5.0	250	<5.0
Toluene	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

NOTES:
Bolded numbers denote concentrations above laboratory detection limits
Bolded and bracketed numbers denote concentrations above Type 1 RRS



FIGURES



Source: United States Geological Survey 7.5 Minute Topographic Map
Martinez Quadrangle



SITE
LOCATION

Scale: 1"= 1,800 ft.

0 900 1800 3600

APPROX. SCALE IN FEET



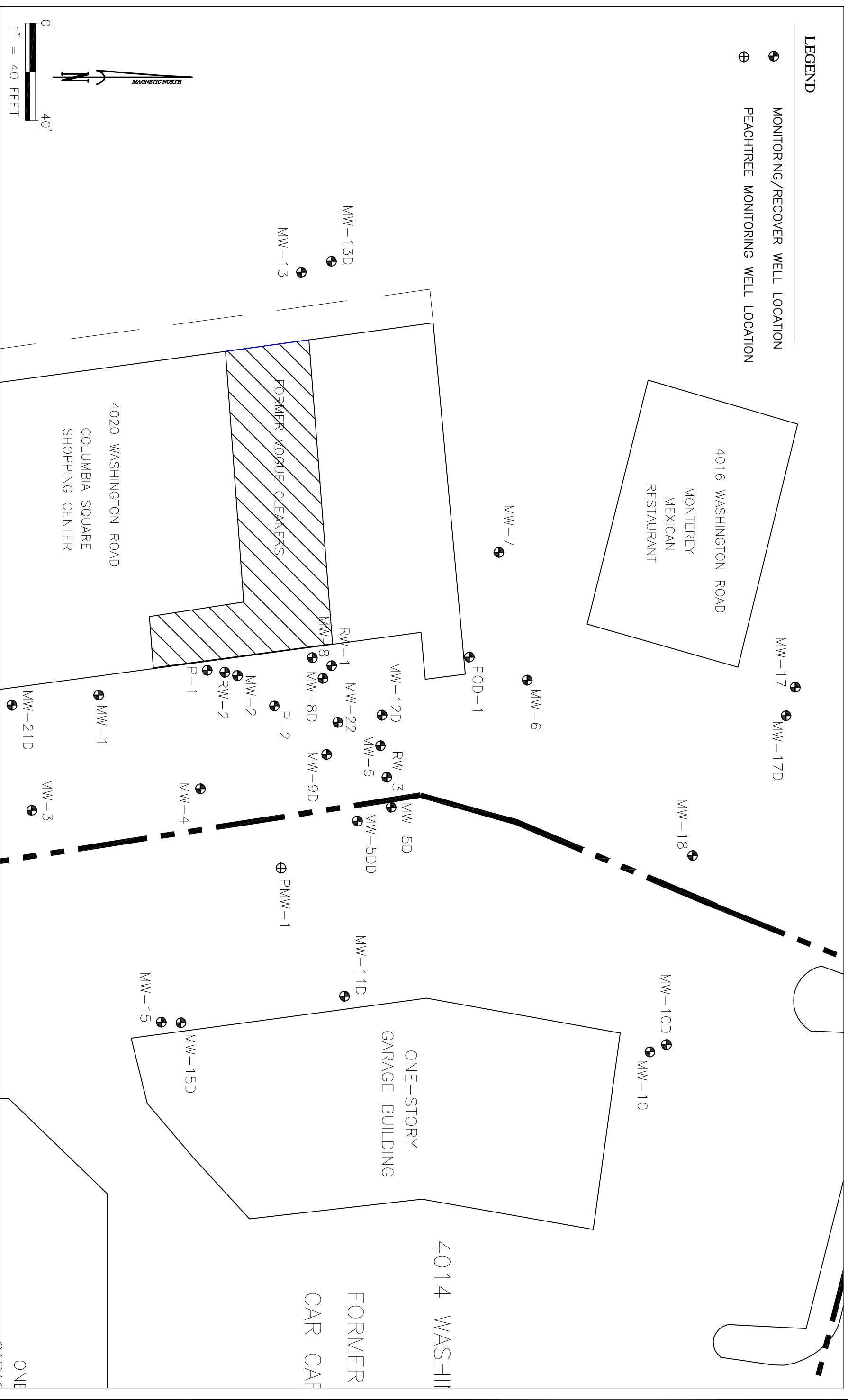
Peachtree
Environmental

COLUMBIA CAR CARE CENTER
MARTINEZ, COLUMBIA COUNTY, GEORGIA

FIGURE 1 VRP PROPERTY LOCATION / USGS TOPOGRAPHIC MAP

1st SEMIANNUAL VRP PROGRESS REPORT

- MONITORING/RECOVER WELL LOCATION
- PEACHTREE MONITORING WELL LOCATION



NOTE: Scale is approximate

FIGURE NO.

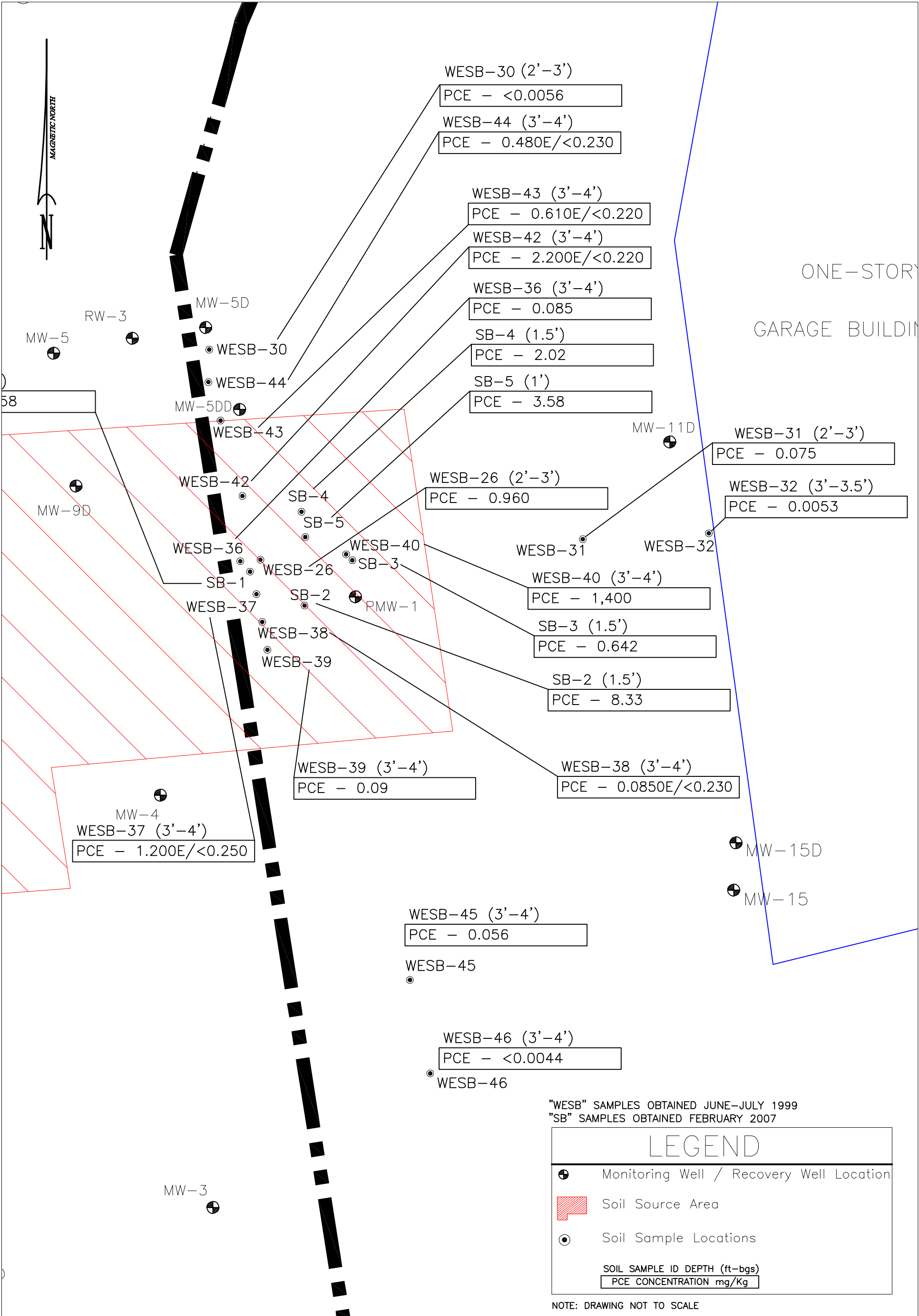
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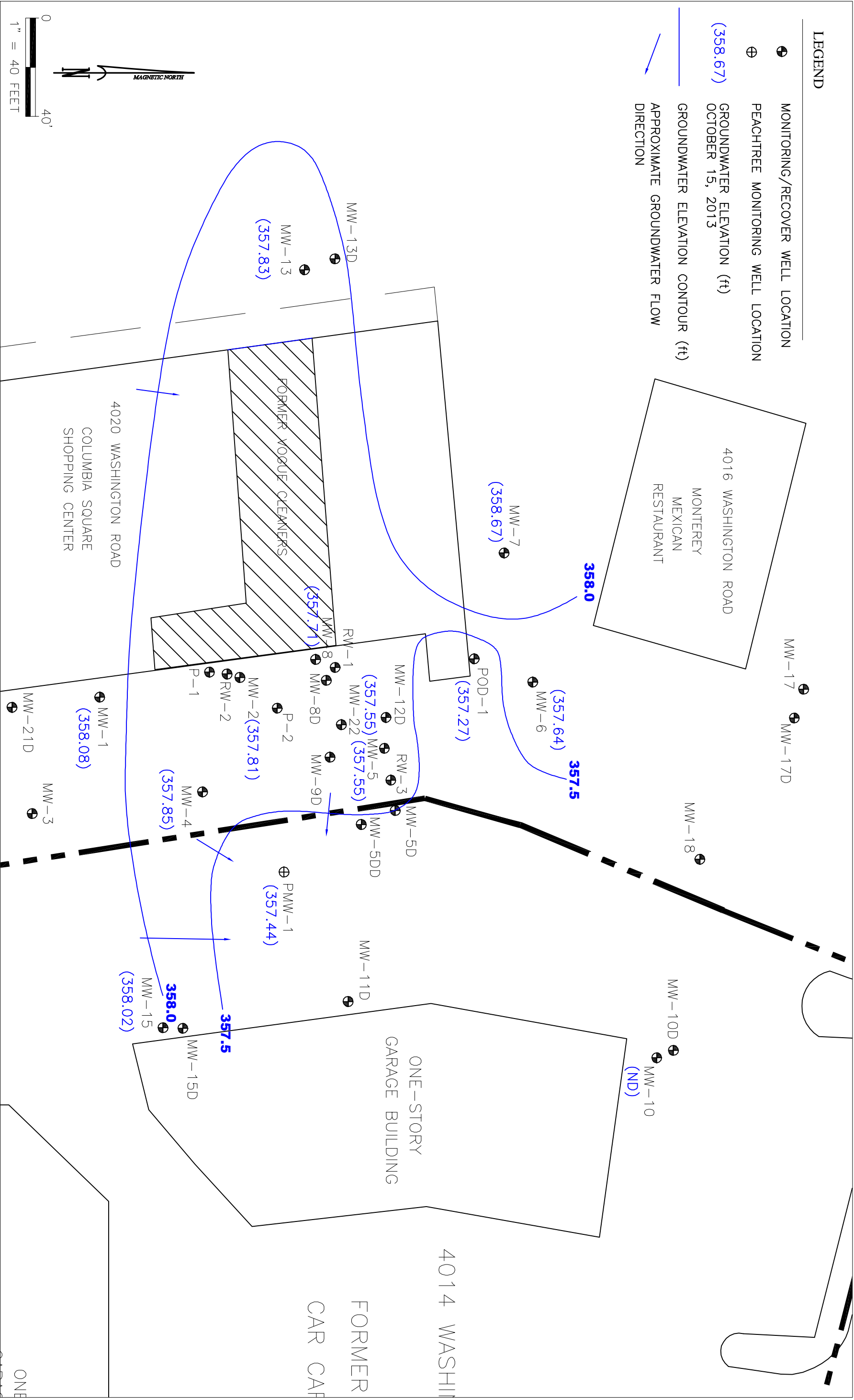
CCCC

FORMER COLUMBIA CAR CARE CENTER

**WASHINGTON ROAD
MARTINEZ, GEORGIA**

[illegible][illegible]





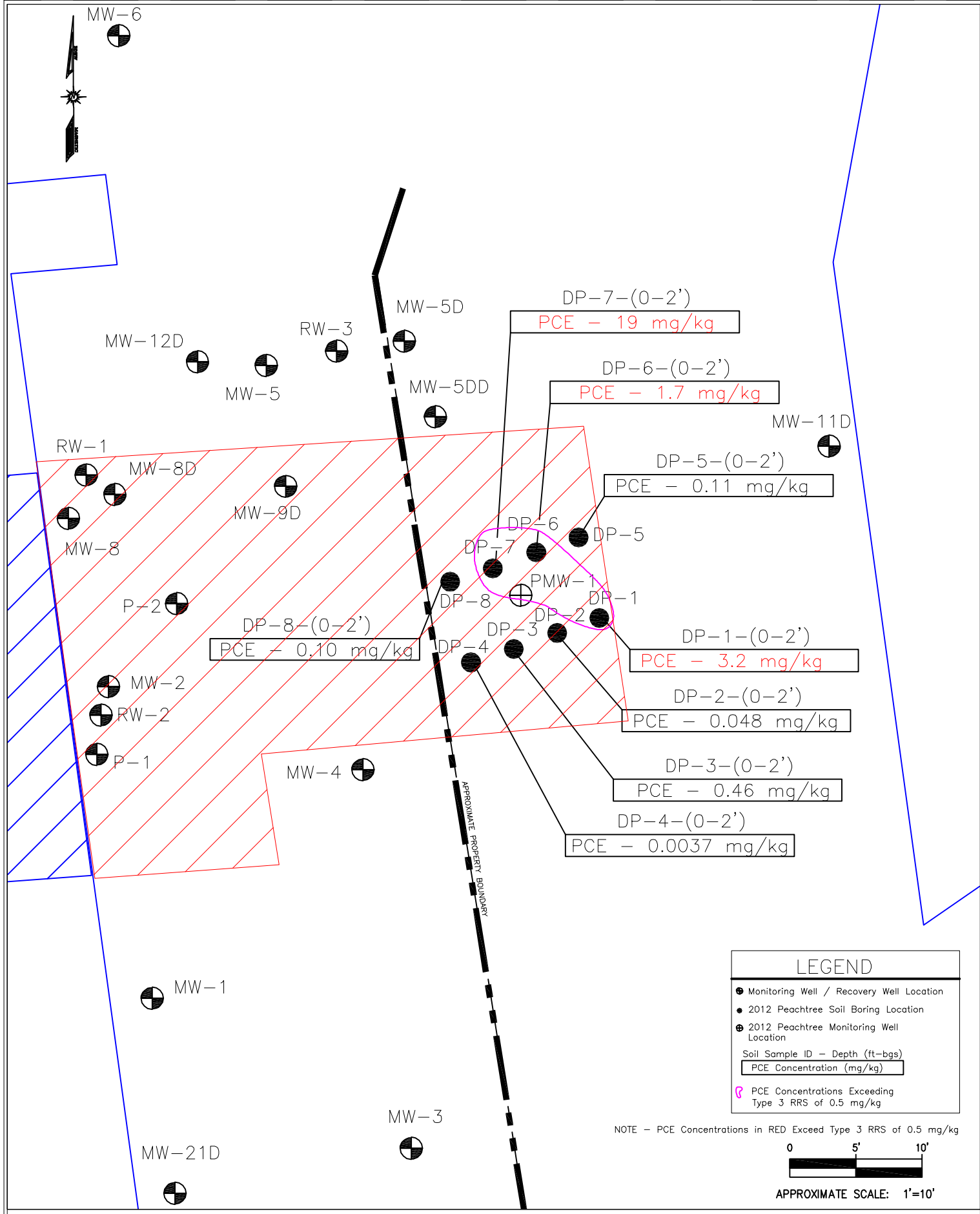


FIGURE NO.

5A

CCCC
3226

**FORMER COLUMBIA CAR CARE CENTER
WASHINGTON ROAD
MARTINEZ, GEORGIA**

**AUGUST 2012 SOIL ANALYTICAL RESULTS for
PCE - LESS THAN 2 ft-bgs**



REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	8/3/12	MRH	MRH	MRH	APP	APP
2	8/3/12	MRH	MRH	MRH	APP	APP
3	8/3/12	MRH	MRH	MRH	APP	APP
4	8/3/12	MRH	MRH	MRH	APP	APP
5	8/3/12	MRH	MRH	MRH	APP	APP
6	8/3/12	MRH	MRH	MRH	APP	APP
7	8/3/12	MRH	MRH	MRH	APP	APP
8	8/3/12	MRH	MRH	MRH	APP	APP
9	8/3/12	MRH	MRH	MRH	APP	APP
10	8/3/12	MRH	MRH	MRH	APP	APP

Map Source:

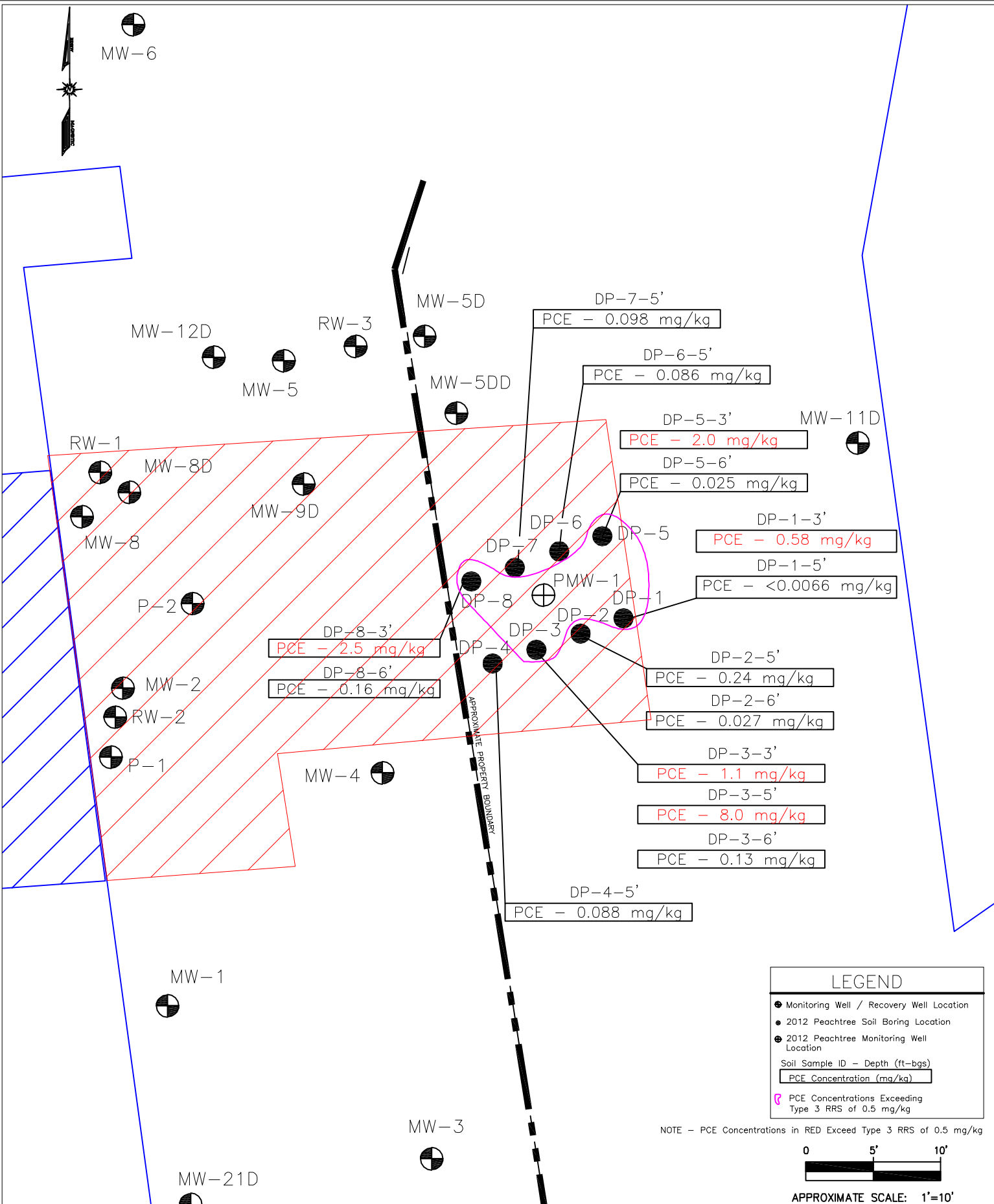


FIGURE NO.

5B

CCCC
3226

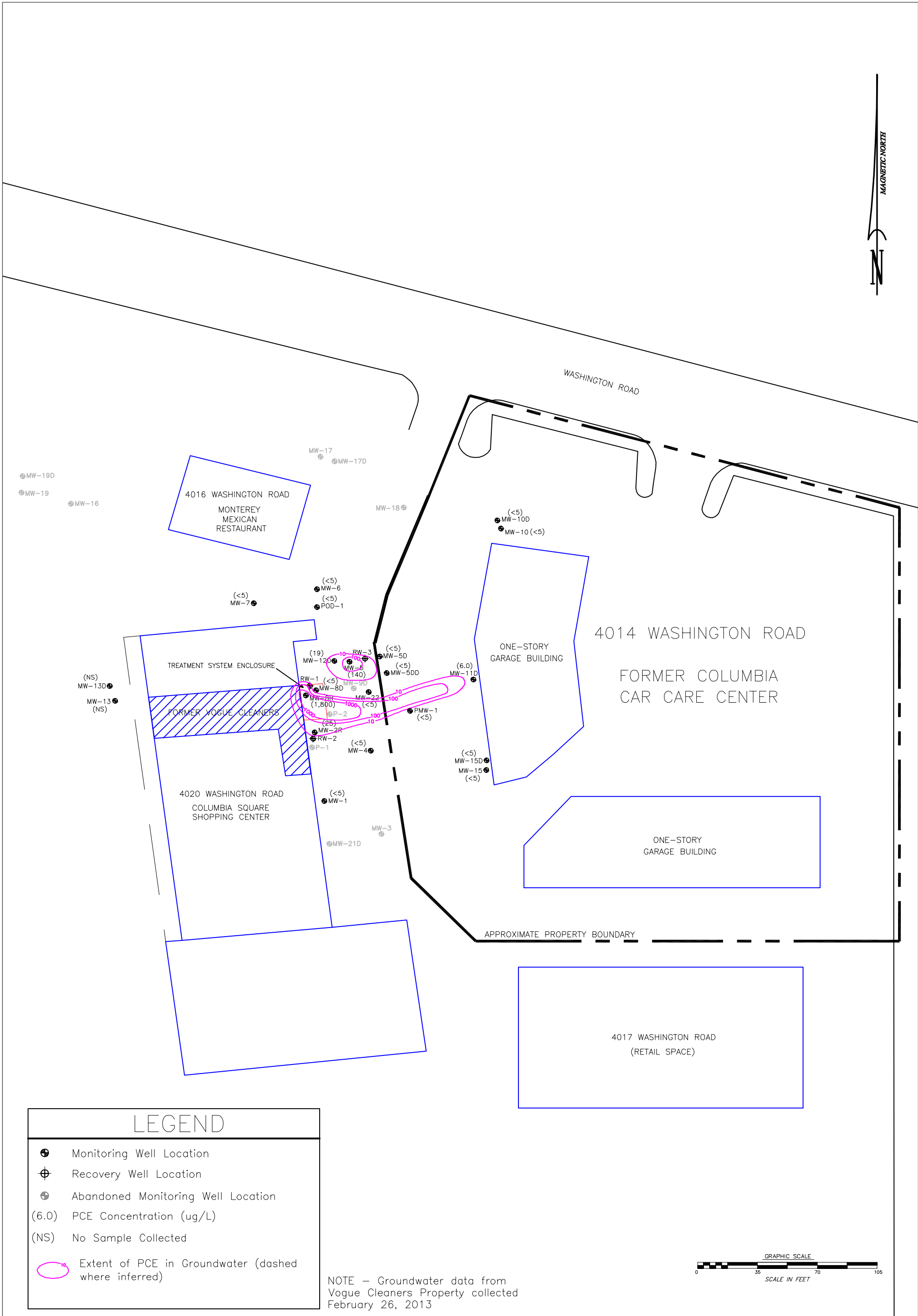
**FORMER COLUMBIA CAR CARE CENTER
WASHINGTON ROAD
MARTINEZ, GEORGIA**

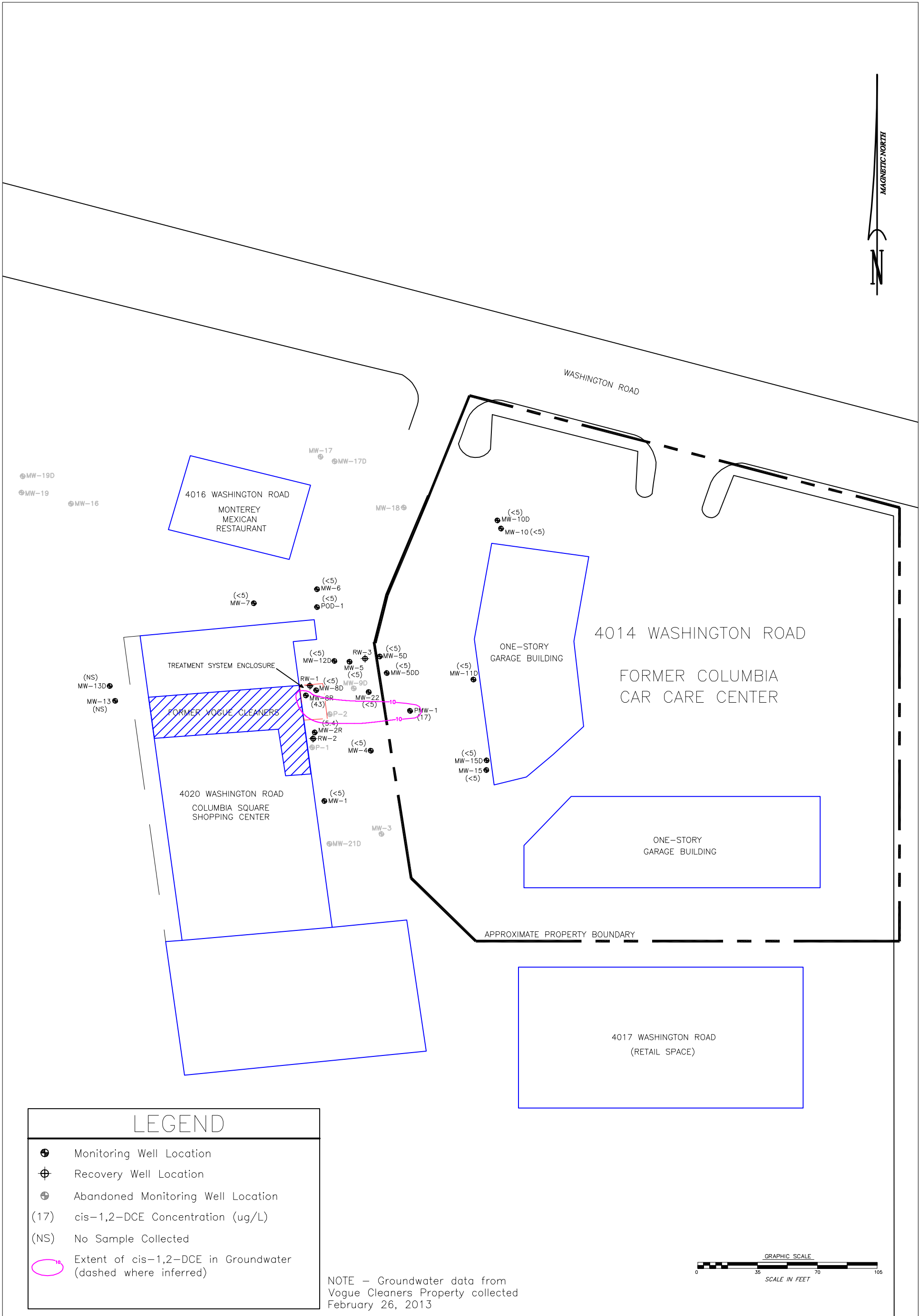
**AUGUST 2012 SOIL ANALYTICAL RESULTS for
PCE - GREATER THAN 2 ft-bgs**

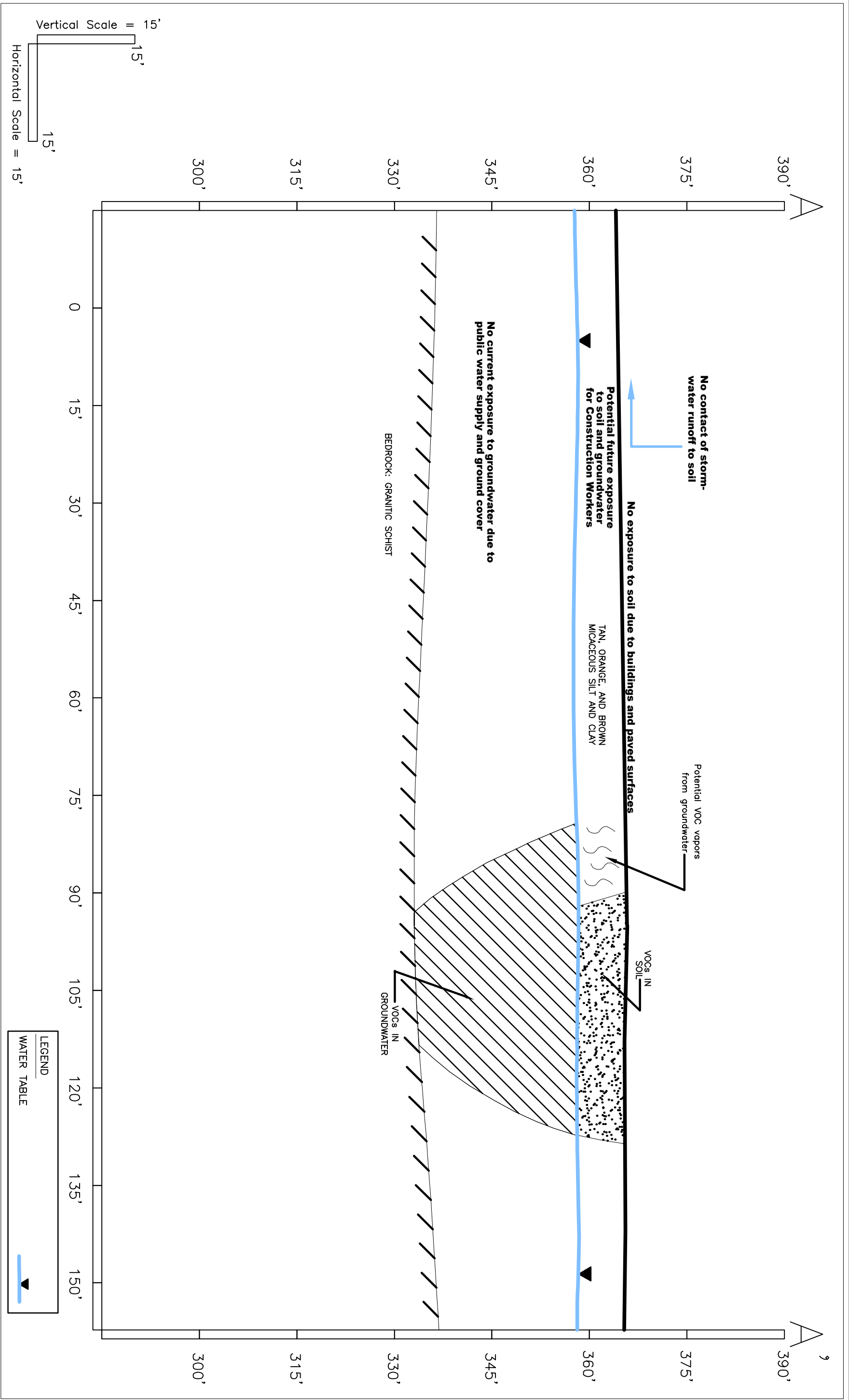


REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	5/27/14		MRH	MRH	SWH	AJN
2						
3						
4						
5						
6						
7						
8						
9						
10						

DATE OF ISSUE: 5/27/14
DWN BY: MRH
DES BY: MRH
CHK BY: SWH
APP BY: AJN
Map Source:







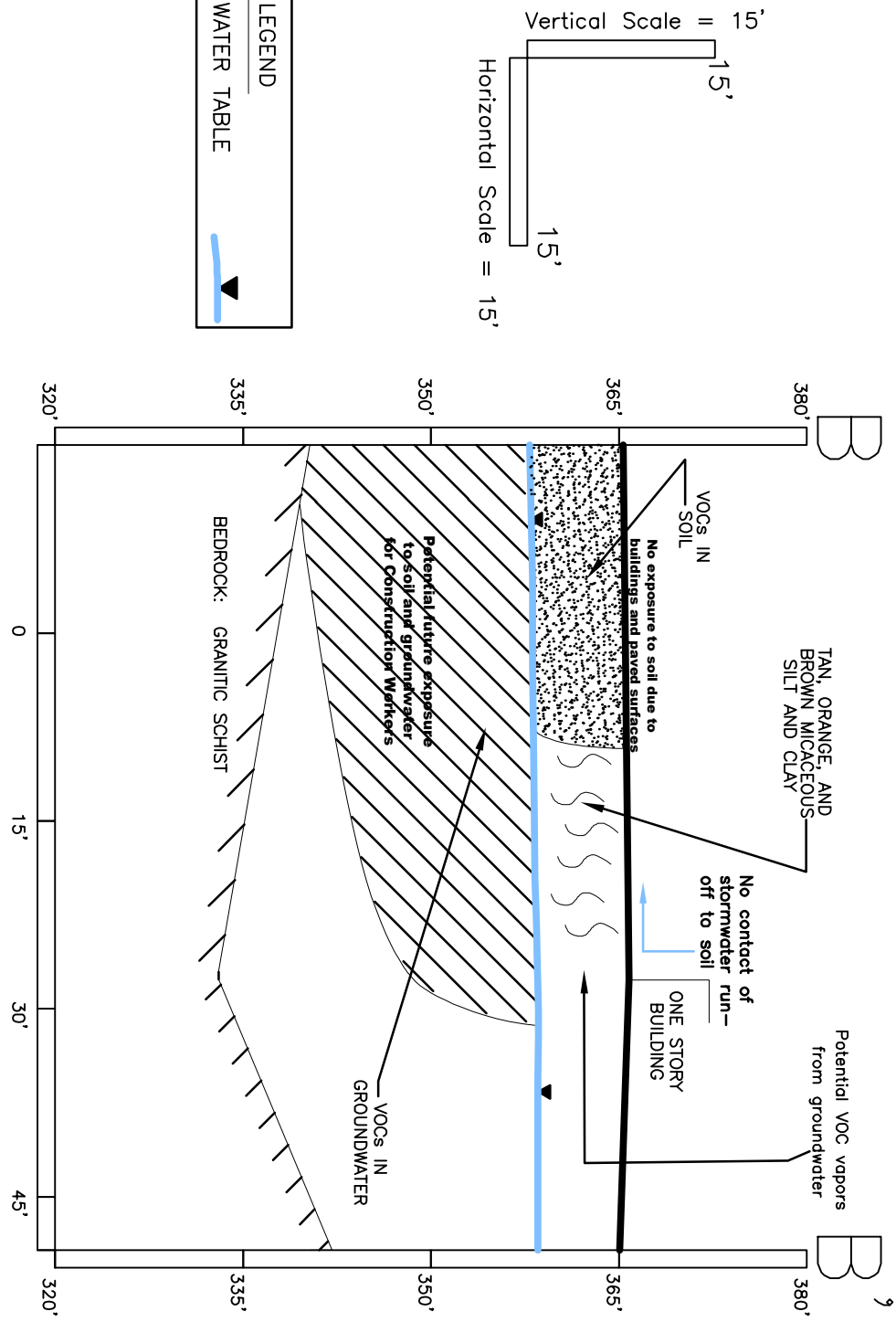
FORMER COLUMBIA CAR CARE CENTER
WASHINGTON ROAD
MARTINEZ, GEORGIA
CONCEPTUAL SITE MODEL CROSS SECTION B-B'

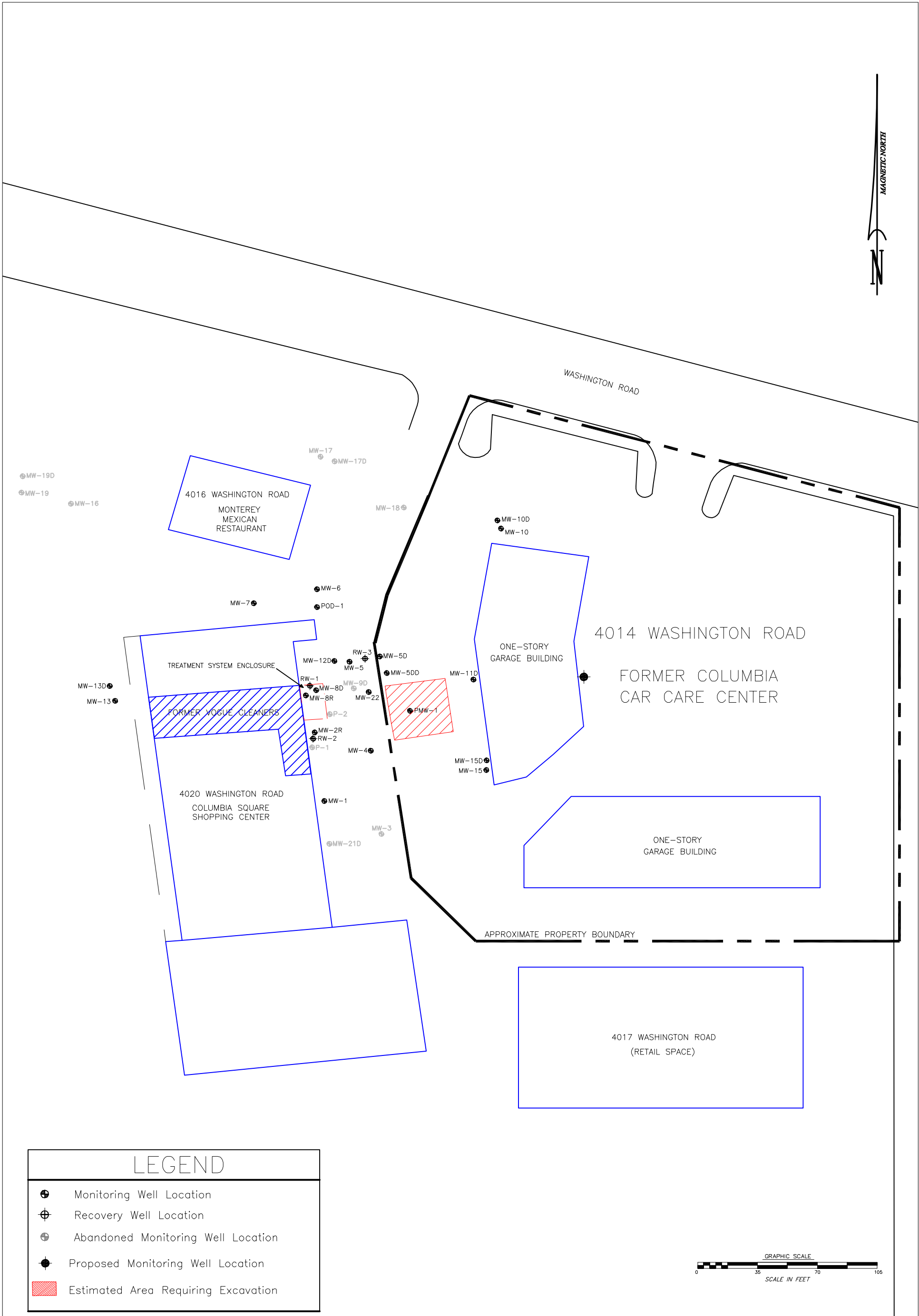


REV	DATE	DESCRIPTION	SYN	APP	DES	CHK	APP
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100	12/11/11	DESIGN	OK	OK	OK	OK	OK

LEGEND

WATER TABLE







APPENDIX A

OCTOBER 2013 GROUNDWATER LABORATORY REPORTS



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

October 22, 2013

Jason Chappell
Peachtree Environmental
3000 Northwoods Pkwy
Norcross GA 30071

TEL: (770) 449-6100
FAX: (770) 449-6119

RE: Columbia Co Car Care Center

Dear Jason Chappell:

Order No: 1310D79

Analytical Environmental Services, Inc. received 11 samples on 10/16/2013 10:59:00 AM for the analyses presented in following report.

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

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

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

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

Dorothy deBruvn
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

3785 Presidential Parkway, Atlanta GA 30340-3704

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

CHAIN OF CUSTODY

Work Order: 1310D79

Date: 10-16-13 Page 1 of 1

COMPANY:		ADDRESS:		PHONE:		FAX:		SIGNATURE:		SAMPLE ID		SAMPLED		DATE		TIME		Grab		Composite		Matrix (See codes)		ANALYSIS REQUESTED		REMARKS		No # of Containers			
Peachtree Environmental		3000 Northwoods Pkwy Suite 105 Norcross, GA 30071		770 449 6100		770 449 6119																		Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.							
1	C-1013 - MW-10D					10-15-13	0950	X																							
2	C-1013 - MW-10						1635	X																							
3	C-1013 - MW-15D						1150	X																							
4	C-1013 - MW-15						1240	X																							
5	C-1013 - MW-5D						1330	X																							
6	C-1013 - MW-11D						1410	X																							
7	C-1013 - MW-11D						1500	X																							
8	C-1013 - PMW-1						1600	X																							
9	C-1013 - DP-1						-	X																							
10	C-1013 - Trip Blank						-	-																							
11	C-1013 - Equip Blank						1620	X																							
12																															
13																															
14																															
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		SHIPMENT METHOD		OUT		IN		SHIPMENT METHOD		OUT		IN		SHIPMENT METHOD		OUT		IN		SHIPMENT METHOD		OUT		IN	
Rg Alatos		10/16/13 1059		[Signature]		10/16/13 10:59		VIA: [Signature]		OUT		IN		VIA: [Signature]		OUT		IN		VIA: [Signature]		OUT		IN		VIA: [Signature]		OUT		IN	
SPECIAL INSTRUCTIONS/COMMENTS:																															
SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.																															
MATRIX CODES: A - Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)																															
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice																															

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc
Date: 22-Oct-13

Client: Peachtree Environmental
Project Name: Columbia Co Car Care Center
Lab ID: 1310D79-001

Client Sample ID: C-1013-MW-10D
Collection Date: 10/15/2013 9:50:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
1,1-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
1,1-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
1,2-Dibromoethane	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
1,2-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
1,2-Dichloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
2-Butanone	BRL	50		ug/L	182668	1	10/21/2013 12:11	AK
2-Hexanone	BRL	10		ug/L	182668	1	10/21/2013 12:11	AK
4-Methyl-2-pentanone	BRL	10		ug/L	182668	1	10/21/2013 12:11	AK
Acetone	BRL	50		ug/L	182668	1	10/21/2013 12:11	AK
Benzene	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
Bromodichloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
Bromoform	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
Bromomethane	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
Carbon disulfide	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
Carbon tetrachloride	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
Chlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
Chloroethane	BRL	10		ug/L	182668	1	10/21/2013 12:11	AK
Chloroform	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
Chloromethane	BRL	10		ug/L	182668	1	10/21/2013 12:11	AK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
Cyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
Dibromochloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
Dichlorodifluoromethane	BRL	10		ug/L	182668	1	10/21/2013 12:11	AK
Ethylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
Freon-113	BRL	10		ug/L	182668	1	10/21/2013 12:11	AK
Isopropylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
m,p-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
Methyl acetate	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
Methylcyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
Methylene chloride	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
o-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK

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

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

Analytical Environmental Services, Inc

Date: 22-Oct-13

Client: Peachtree Environmental
Project Name: Columbia Co Car Care Center
Lab ID: 1310D79-001

Client Sample ID: C-1013-MW-10D
Collection Date: 10/15/2013 9:50:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
Tetrachloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
Toluene	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
Trichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
Trichlorofluoromethane	BRL	5.0		ug/L	182668	1	10/21/2013 12:11	AK
Vinyl chloride	BRL	2.0		ug/L	182668	1	10/21/2013 12:11	AK
Surr: 4-Bromofluorobenzene	85.7	66.2-120		%REC	182668	1	10/21/2013 12:11	AK
Surr: Dibromofluoromethane	100	79.5-121		%REC	182668	1	10/21/2013 12:11	AK
Surr: Toluene-d8	96.3	77-117		%REC	182668	1	10/21/2013 12:11	AK

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 22-Oct-13

Client: Peachtree Environmental
Project Name: Columbia Co Car Care Center
Lab ID: 1310D79-002

Client Sample ID: C-1013-MW-10
Collection Date: 10/15/2013 10:35:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
1,1-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
1,1-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
1,2-Dibromoethane	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
1,2-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
1,2-Dichloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
2-Butanone	BRL	50		ug/L	182668	1	10/21/2013 12:39	AK
2-Hexanone	BRL	10		ug/L	182668	1	10/21/2013 12:39	AK
4-Methyl-2-pentanone	BRL	10		ug/L	182668	1	10/21/2013 12:39	AK
Acetone	BRL	50		ug/L	182668	1	10/21/2013 12:39	AK
Benzene	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
Bromodichloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
Bromoform	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
Bromomethane	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
Carbon disulfide	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
Carbon tetrachloride	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
Chlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
Chloroethane	BRL	10		ug/L	182668	1	10/21/2013 12:39	AK
Chloroform	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
Chloromethane	BRL	10		ug/L	182668	1	10/21/2013 12:39	AK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
Cyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
Dibromochloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
Dichlorodifluoromethane	BRL	10		ug/L	182668	1	10/21/2013 12:39	AK
Ethylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
Freon-113	BRL	10		ug/L	182668	1	10/21/2013 12:39	AK
Isopropylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
m,p-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
Methyl acetate	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
Methylcyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
Methylene chloride	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
o-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK

Qualifiers:

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

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

Analytical Environmental Services, Inc
Date: 22-Oct-13

Client: Peachtree Environmental
Project Name: Columbia Co Car Care Center
Lab ID: 1310D79-002

Client Sample ID: C-1013-MW-10
Collection Date: 10/15/2013 10:35:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
Tetrachloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
Toluene	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
Trichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
Trichlorofluoromethane	BRL	5.0		ug/L	182668	1	10/21/2013 12:39	AK
Vinyl chloride	BRL	2.0		ug/L	182668	1	10/21/2013 12:39	AK
Surr: 4-Bromofluorobenzene	83.6	66.2-120		%REC	182668	1	10/21/2013 12:39	AK
Surr: Dibromofluoromethane	99.4	79.5-121		%REC	182668	1	10/21/2013 12:39	AK
Surr: Toluene-d8	97.3	77-117		%REC	182668	1	10/21/2013 12:39	AK

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

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

Analytical Environmental Services, Inc
Date: 22-Oct-13

Client: Peachtree Environmental
Project Name: Columbia Co Car Care Center
Lab ID: 1310D79-003

Client Sample ID: C-1013-MW-15D
Collection Date: 10/15/2013 11:50:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
1,1-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
1,1-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
1,2-Dibromoethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
1,2-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
1,2-Dichloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
2-Butanone	BRL	50		ug/L	182668	1	10/21/2013 13:07	AK
2-Hexanone	BRL	10		ug/L	182668	1	10/21/2013 13:07	AK
4-Methyl-2-pentanone	BRL	10		ug/L	182668	1	10/21/2013 13:07	AK
Acetone	BRL	50		ug/L	182668	1	10/21/2013 13:07	AK
Benzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
Bromodichloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
Bromoform	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
Bromomethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
Carbon disulfide	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
Carbon tetrachloride	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
Chlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
Chloroethane	BRL	10		ug/L	182668	1	10/21/2013 13:07	AK
Chloroform	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
Chloromethane	BRL	10		ug/L	182668	1	10/21/2013 13:07	AK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
Cyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
Dibromochloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
Dichlorodifluoromethane	BRL	10		ug/L	182668	1	10/21/2013 13:07	AK
Ethylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
Freon-113	BRL	10		ug/L	182668	1	10/21/2013 13:07	AK
Isopropylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
m,p-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
Methyl acetate	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
Methylcyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
Methylene chloride	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
o-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK

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

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

Analytical Environmental Services, Inc

Date: 22-Oct-13

Client: Peachtree Environmental
Project Name: Columbia Co Car Care Center
Lab ID: 1310D79-003

Client Sample ID: C-1013-MW-15D
Collection Date: 10/15/2013 11:50:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
Tetrachloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
Toluene	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
Trichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
Trichlorofluoromethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:07	AK
Vinyl chloride	BRL	2.0		ug/L	182668	1	10/21/2013 13:07	AK
Surr: 4-Bromofluorobenzene	83.4	66.2-120		%REC	182668	1	10/21/2013 13:07	AK
Surr: Dibromofluoromethane	104	79.5-121		%REC	182668	1	10/21/2013 13:07	AK
Surr: Toluene-d8	97.4	77-117		%REC	182668	1	10/21/2013 13:07	AK

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

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

Analytical Environmental Services, Inc
Date: 22-Oct-13

Client: Peachtree Environmental
Project Name: Columbia Co Car Care Center
Lab ID: 1310D79-004

Client Sample ID: C-1013-MW-15
Collection Date: 10/15/2013 12:40:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
1,1-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
1,1-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
1,2-Dibromoethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
1,2-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
1,2-Dichloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
2-Butanone	BRL	50		ug/L	182668	1	10/21/2013 13:36	AK
2-Hexanone	BRL	10		ug/L	182668	1	10/21/2013 13:36	AK
4-Methyl-2-pentanone	BRL	10		ug/L	182668	1	10/21/2013 13:36	AK
Acetone	BRL	50		ug/L	182668	1	10/21/2013 13:36	AK
Benzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
Bromodichloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
Bromoform	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
Bromomethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
Carbon disulfide	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
Carbon tetrachloride	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
Chlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
Chloroethane	BRL	10		ug/L	182668	1	10/21/2013 13:36	AK
Chloroform	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
Chloromethane	BRL	10		ug/L	182668	1	10/21/2013 13:36	AK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
Cyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
Dibromochloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
Dichlorodifluoromethane	BRL	10		ug/L	182668	1	10/21/2013 13:36	AK
Ethylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
Freon-113	BRL	10		ug/L	182668	1	10/21/2013 13:36	AK
Isopropylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
m,p-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
Methyl acetate	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
Methylcyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
Methylene chloride	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
o-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 22-Oct-13

Client: Peachtree Environmental
Project Name: Columbia Co Car Care Center
Lab ID: 1310D79-004

Client Sample ID: C-1013-MW-15
Collection Date: 10/15/2013 12:40:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
Tetrachloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
Toluene	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
Trichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
Trichlorofluoromethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:36	AK
Vinyl chloride	BRL	2.0		ug/L	182668	1	10/21/2013 13:36	AK
Surr: 4-Bromofluorobenzene	81.5	66.2-120		%REC	182668	1	10/21/2013 13:36	AK
Surr: Dibromofluoromethane	101	79.5-121		%REC	182668	1	10/21/2013 13:36	AK
Surr: Toluene-d8	96.2	77-117		%REC	182668	1	10/21/2013 13:36	AK

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 22-Oct-13

Client: Peachtree Environmental
Project Name: Columbia Co Car Care Center
Lab ID: 1310D79-005

Client Sample ID: C-1013-MW-5D
Collection Date: 10/15/2013 1:30:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
1,1-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
1,1-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
1,2-Dibromoethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
1,2-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
1,2-Dichloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
2-Butanone	BRL	50		ug/L	182668	1	10/21/2013 14:04	AK
2-Hexanone	BRL	10		ug/L	182668	1	10/21/2013 14:04	AK
4-Methyl-2-pentanone	BRL	10		ug/L	182668	1	10/21/2013 14:04	AK
Acetone	BRL	50		ug/L	182668	1	10/21/2013 14:04	AK
Benzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
Bromodichloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
Bromoform	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
Bromomethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
Carbon disulfide	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
Carbon tetrachloride	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
Chlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
Chloroethane	BRL	10		ug/L	182668	1	10/21/2013 14:04	AK
Chloroform	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
Chloromethane	BRL	10		ug/L	182668	1	10/21/2013 14:04	AK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
Cyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
Dibromochloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
Dichlorodifluoromethane	BRL	10		ug/L	182668	1	10/21/2013 14:04	AK
Ethylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
Freon-113	BRL	10		ug/L	182668	1	10/21/2013 14:04	AK
Isopropylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
m,p-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
Methyl acetate	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
Methylcyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
Methylene chloride	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
o-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK

Qualifiers:

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

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

Analytical Environmental Services, Inc
Date: 22-Oct-13

Client: Peachtree Environmental	Client Sample ID: C-1013-MW-5D
Project Name: Columbia Co Car Care Center	Collection Date: 10/15/2013 1:30:00 PM
Lab ID: 1310D79-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
Tetrachloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
Toluene	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
Trichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
Trichlorofluoromethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:04	AK
Vinyl chloride	BRL	2.0		ug/L	182668	1	10/21/2013 14:04	AK
Surr: 4-Bromofluorobenzene	81.6	66.2-120		%REC	182668	1	10/21/2013 14:04	AK
Surr: Dibromofluoromethane	103	79.5-121		%REC	182668	1	10/21/2013 14:04	AK
Surr: Toluene-d8	96.5	77-117		%REC	182668	1	10/21/2013 14:04	AK

Qualifiers:

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

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

Analytical Environmental Services, Inc
Date: 22-Oct-13

Client: Peachtree Environmental
Project Name: Columbia Co Car Care Center
Lab ID: 1310D79-006

Client Sample ID: C-1013-MW-5DD
Collection Date: 10/15/2013 2:10:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
1,1-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
1,1-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
1,2-Dibromoethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
1,2-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
1,2-Dichloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
2-Butanone	BRL	50		ug/L	182668	1	10/21/2013 14:33	AK
2-Hexanone	BRL	10		ug/L	182668	1	10/21/2013 14:33	AK
4-Methyl-2-pentanone	BRL	10		ug/L	182668	1	10/21/2013 14:33	AK
Acetone	BRL	50		ug/L	182668	1	10/21/2013 14:33	AK
Benzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
Bromodichloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
Bromoform	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
Bromomethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
Carbon disulfide	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
Carbon tetrachloride	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
Chlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
Chloroethane	BRL	10		ug/L	182668	1	10/21/2013 14:33	AK
Chloroform	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
Chloromethane	BRL	10		ug/L	182668	1	10/21/2013 14:33	AK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
Cyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
Dibromochloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
Dichlorodifluoromethane	BRL	10		ug/L	182668	1	10/21/2013 14:33	AK
Ethylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
Freon-113	BRL	10		ug/L	182668	1	10/21/2013 14:33	AK
Isopropylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
m,p-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
Methyl acetate	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
Methylcyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
Methylene chloride	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
o-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK

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

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

Analytical Environmental Services, Inc

Date: 22-Oct-13

Client: Peachtree Environmental
Project Name: Columbia Co Car Care Center
Lab ID: 1310D79-006

Client Sample ID: C-1013-MW-5DD
Collection Date: 10/15/2013 2:10:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
Tetrachloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
Toluene	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
Trichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
Trichlorofluoromethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:33	AK
Vinyl chloride	BRL	2.0		ug/L	182668	1	10/21/2013 14:33	AK
Surr: 4-Bromofluorobenzene	82.7	66.2-120		%REC	182668	1	10/21/2013 14:33	AK
Surr: Dibromofluoromethane	100	79.5-121		%REC	182668	1	10/21/2013 14:33	AK
Surr: Toluene-d8	94.2	77-117		%REC	182668	1	10/21/2013 14:33	AK

Qualifiers:

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

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

Analytical Environmental Services, Inc
Date: 22-Oct-13

Client: Peachtree Environmental
Project Name: Columbia Co Car Care Center
Lab ID: 1310D79-007

Client Sample ID: C-1013-MW-11D
Collection Date: 10/15/2013 3:00:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
1,1-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
1,1-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
1,2-Dibromoethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
1,2-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
1,2-Dichloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
2-Butanone	BRL	50		ug/L	182668	1	10/21/2013 14:45	NH
2-Hexanone	BRL	10		ug/L	182668	1	10/21/2013 14:45	NH
4-Methyl-2-pentanone	BRL	10		ug/L	182668	1	10/21/2013 14:45	NH
Acetone	BRL	50		ug/L	182668	1	10/21/2013 14:45	NH
Benzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
Bromodichloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
Bromoform	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
Bromomethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
Carbon disulfide	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
Carbon tetrachloride	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
Chlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
Chloroethane	BRL	10		ug/L	182668	1	10/21/2013 14:45	NH
Chloroform	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
Chloromethane	BRL	10		ug/L	182668	1	10/21/2013 14:45	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
Cyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
Dibromochloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
Dichlorodifluoromethane	BRL	10		ug/L	182668	1	10/21/2013 14:45	NH
Ethylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
Freon-113	BRL	10		ug/L	182668	1	10/21/2013 14:45	NH
Isopropylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
m,p-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
Methyl acetate	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
Methylcyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
Methylene chloride	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
o-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH

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

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

Analytical Environmental Services, Inc
Date: 22-Oct-13

Client: Peachtree Environmental	Client Sample ID: C-1013-MW-11D
Project Name: Columbia Co Car Care Center	Collection Date: 10/15/2013 3:00:00 PM
Lab ID: 1310D79-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
Tetrachloroethene	6.0	5.0		ug/L	182668	1	10/21/2013 14:45	NH
Toluene	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
Trichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
Trichlorofluoromethane	BRL	5.0		ug/L	182668	1	10/21/2013 14:45	NH
Vinyl chloride	BRL	2.0		ug/L	182668	1	10/21/2013 14:45	NH
Surr: 4-Bromofluorobenzene	99.1	66.2-120		%REC	182668	1	10/21/2013 14:45	NH
Surr: Dibromofluoromethane	101	79.5-121		%REC	182668	1	10/21/2013 14:45	NH
Surr: Toluene-d8	94.5	77-117		%REC	182668	1	10/21/2013 14:45	NH

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 22-Oct-13

Client: Peachtree Environmental
Project Name: Columbia Co Car Care Center
Lab ID: 1310D79-008

Client Sample ID: C-1013-PMW-1
Collection Date: 10/15/2013 4:00:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
1,1-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
1,1-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
1,2-Dibromoethane	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
1,2-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
1,2-Dichloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
2-Butanone	BRL	50		ug/L	182668	1	10/21/2013 15:09	NH
2-Hexanone	BRL	10		ug/L	182668	1	10/21/2013 15:09	NH
4-Methyl-2-pentanone	BRL	10		ug/L	182668	1	10/21/2013 15:09	NH
Acetone	BRL	50		ug/L	182668	1	10/21/2013 15:09	NH
Benzene	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
Bromodichloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
Bromoform	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
Bromomethane	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
Carbon disulfide	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
Carbon tetrachloride	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
Chlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
Chloroethane	BRL	10		ug/L	182668	1	10/21/2013 15:09	NH
Chloroform	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
Chloromethane	BRL	10		ug/L	182668	1	10/21/2013 15:09	NH
cis-1,2-Dichloroethene	17	5.0		ug/L	182668	1	10/21/2013 15:09	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
Cyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
Dibromochloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
Dichlorodifluoromethane	BRL	10		ug/L	182668	1	10/21/2013 15:09	NH
Ethylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
Freon-113	BRL	10		ug/L	182668	1	10/21/2013 15:09	NH
Isopropylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
m,p-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
Methyl acetate	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
Methylcyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
Methylene chloride	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
o-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 22-Oct-13

Client: Peachtree Environmental
 Project Name: Columbia Co Car Care Center
 Lab ID: 1310D79-008

Client Sample ID: C-1013-PMW-1
 Collection Date: 10/15/2013 4:00:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
Tetrachloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
Toluene	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
Trichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
Trichlorofluoromethane	BRL	5.0		ug/L	182668	1	10/21/2013 15:09	NH
Vinyl chloride	BRL	2.0		ug/L	182668	1	10/21/2013 15:09	NH
Surr: 4-Bromofluorobenzene	97.1	66.2-120		%REC	182668	1	10/21/2013 15:09	NH
Surr: Dibromofluoromethane	99.3	79.5-121		%REC	182668	1	10/21/2013 15:09	NH
Surr: Toluene-d8	94.6	77-117		%REC	182668	1	10/21/2013 15:09	NH

Qualifiers:

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

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

Analytical Environmental Services, Inc
Date: 22-Oct-13

Client: Peachtree Environmental
Project Name: Columbia Co Car Care Center
Lab ID: 1310D79-009

Client Sample ID: C-1013-DP-1
Collection Date: 10/15/2013
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
1,1-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
1,1-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
1,2-Dibromoethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
1,2-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
1,2-Dichloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
2-Butanone	BRL	50		ug/L	182668	1	10/21/2013 13:32	NH
2-Hexanone	BRL	10		ug/L	182668	1	10/21/2013 13:32	NH
4-Methyl-2-pentanone	BRL	10		ug/L	182668	1	10/21/2013 13:32	NH
Acetone	BRL	50		ug/L	182668	1	10/21/2013 13:32	NH
Benzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
Bromodichloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
Bromoform	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
Bromomethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
Carbon disulfide	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
Carbon tetrachloride	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
Chlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
Chloroethane	BRL	10		ug/L	182668	1	10/21/2013 13:32	NH
Chloroform	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
Chloromethane	BRL	10		ug/L	182668	1	10/21/2013 13:32	NH
cis-1,2-Dichloroethene	20	5.0		ug/L	182668	1	10/21/2013 13:32	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
Cyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
Dibromochloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
Dichlorodifluoromethane	BRL	10		ug/L	182668	1	10/21/2013 13:32	NH
Ethylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
Freon-113	BRL	10		ug/L	182668	1	10/21/2013 13:32	NH
Isopropylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
m,p-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
Methyl acetate	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
Methylcyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
Methylene chloride	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
o-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH

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

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

Analytical Environmental Services, Inc

Date: 22-Oct-13

Client: Peachtree Environmental
 Project Name: Columbia Co Car Care Center
 Lab ID: 1310D79-009

Client Sample ID: C-1013-DP-1
 Collection Date: 10/15/2013
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
Tetrachloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
Toluene	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
Trichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
Trichlorofluoromethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:32	NH
Vinyl chloride	BRL	2.0		ug/L	182668	1	10/21/2013 13:32	NH
Surr: 4-Bromofluorobenzene	83.6	66.2-120		%REC	182668	1	10/21/2013 13:32	NH
Surr: Dibromofluoromethane	106	79.5-121		%REC	182668	1	10/21/2013 13:32	NH
Surr: Toluene-d8	96.1	77-117		%REC	182668	1	10/21/2013 13:32	NH

Qualifiers:

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- N Analyte not NELAC certified
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- > Greater than Result value

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

Analytical Environmental Services, Inc
Date: 22-Oct-13

Client: Peachtree Environmental
Project Name: Columbia Co Car Care Center
Lab ID: 1310D79-010

Client Sample ID: C-1013-TRIP BLANK
Collection Date: 10/15/2013
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
1,1-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
1,1-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
1,2-Dibromoethane	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
1,2-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
1,2-Dichloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
2-Butanone	BRL	50		ug/L	182668	1	10/21/2013 11:54	NH
2-Hexanone	BRL	10		ug/L	182668	1	10/21/2013 11:54	NH
4-Methyl-2-pentanone	BRL	10		ug/L	182668	1	10/21/2013 11:54	NH
Acetone	BRL	50		ug/L	182668	1	10/21/2013 11:54	NH
Benzene	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
Bromodichloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
Bromoform	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
Bromomethane	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
Carbon disulfide	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
Carbon tetrachloride	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
Chlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
Chloroethane	BRL	10		ug/L	182668	1	10/21/2013 11:54	NH
Chloroform	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
Chloromethane	BRL	10		ug/L	182668	1	10/21/2013 11:54	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
Cyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
Dibromochloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
Dichlorodifluoromethane	BRL	10		ug/L	182668	1	10/21/2013 11:54	NH
Ethylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
Freon-113	BRL	10		ug/L	182668	1	10/21/2013 11:54	NH
Isopropylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
m,p-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
Methyl acetate	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
Methylcyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
Methylene chloride	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
o-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
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 > Greater than Result value

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

Analytical Environmental Services, Inc

Date: 22-Oct-13

Client: Peachtree Environmental
 Project Name: Columbia Co Car Care Center
 Lab ID: 1310D79-010

Client Sample ID: C-1013-TRIP BLANK
 Collection Date: 10/15/2013
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
Tetrachloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
Toluene	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
Trichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
Trichlorofluoromethane	BRL	5.0		ug/L	182668	1	10/21/2013 11:54	NH
Vinyl chloride	BRL	2.0		ug/L	182668	1	10/21/2013 11:54	NH
Surr: 4-Bromofluorobenzene	84.6	66.2-120		%REC	182668	1	10/21/2013 11:54	NH
Surr: Dibromofluoromethane	109	79.5-121		%REC	182668	1	10/21/2013 11:54	NH
Surr: Toluene-d8	97.2	77-117		%REC	182668	1	10/21/2013 11:54	NH

Qualifiers:

- * Value exceeds maximum contaminant level
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- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 22-Oct-13

Client: Peachtree Environmental
Project Name: Columbia Co Car Care Center
Lab ID: 1310D79-011

Client Sample ID: C-1013-EQUIP BLANK
Collection Date: 10/15/2013 4:20:00 PM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
1,1-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
1,1-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
1,2-Dibromoethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
1,2-Dichloroethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
1,2-Dichloropropane	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
2-Butanone	BRL	50		ug/L	182668	1	10/21/2013 13:08	NH
2-Hexanone	BRL	10		ug/L	182668	1	10/21/2013 13:08	NH
4-Methyl-2-pentanone	BRL	10		ug/L	182668	1	10/21/2013 13:08	NH
Acetone	BRL	50		ug/L	182668	1	10/21/2013 13:08	NH
Benzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
Bromodichloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
Bromoform	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
Bromomethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
Carbon disulfide	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
Carbon tetrachloride	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
Chlorobenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
Chloroethane	BRL	10		ug/L	182668	1	10/21/2013 13:08	NH
Chloroform	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
Chloromethane	BRL	10		ug/L	182668	1	10/21/2013 13:08	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
Cyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
Dibromochloromethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
Dichlorodifluoromethane	BRL	10		ug/L	182668	1	10/21/2013 13:08	NH
Ethylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
Freon-113	BRL	10		ug/L	182668	1	10/21/2013 13:08	NH
Isopropylbenzene	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
m,p-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
Methyl acetate	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
Methylcyclohexane	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
Methylene chloride	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
o-Xylene	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH

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- Narr See case narrative
- NC Not confirmed
- < Less than Result value
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Analytical Environmental Services, Inc

Date: 22-Oct-13

Client: Peachtree Environmental
 Project Name: Columbia Co Car Care Center
 Lab ID: 1310D79-011

Client Sample ID: C-1013-EQUIP BLANK
 Collection Date: 10/15/2013 4:20:00 PM
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
Tetrachloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
Toluene	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
Trichloroethene	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
Trichlorofluoromethane	BRL	5.0		ug/L	182668	1	10/21/2013 13:08	NH
Vinyl chloride	BRL	2.0		ug/L	182668	1	10/21/2013 13:08	NH
Surr: 4-Bromofluorobenzene	82.8	66.2-120		%REC	182668	1	10/21/2013 13:08	NH
Surr: Dibromofluoromethane	106	79.5-121		%REC	182668	1	10/21/2013 13:08	NH
Surr: Toluene-d8	96.6	77-117		%REC	182668	1	10/21/2013 13:08	NH

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- E Estimated (value above quantitation range)
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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Peachtree Environmental Work Order Number 1310D79

Checklist completed by [Signature] Date 10/16/13
Signature Date

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

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

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

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

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

Cooler #1 3-5 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

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

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

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

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

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

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

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Client: Peachtree Environmental
 Project Name: Columbia Co Car Care Center
 Workorder: 1310D79

ANALYTICAL QC SUMMARY REPORT

BatchID: 182668

Sample ID: MB-182668	Client ID:				Units: ug/L	Prep Date: 10/21/2013	Run No: 254232				
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 182668	Analysis Date: 10/21/2013	Seq No: 5338863				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

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

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

Client: Peachtree Environmental
Project Name: Columbia Co Car Care Center
Workorder: 1310D79

ANALYTICAL QC SUMMARY REPORT**BatchID: 182668**

Sample ID: MB-182668	Client ID:					Units: ug/L	Prep Date: 10/21/2013		Run No: 254232		
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS	SW8260B				BatchID: 182668	Analysis Date: 10/21/2013		Seq No: 5338863		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	41.03	0	50.00		82.1	66.2	120				
Surr: Dibromofluoromethane	50.90	0	50.00		102	79.5	121				
Surr: Toluene-d8	47.74	0	50.00		95.5	77	117				

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

Client: Peachtree Environmental
Project Name: Columbia Co Car Care Center
Workorder: 1310D79

ANALYTICAL QC SUMMARY REPORT**BatchID: 182668**

Sample ID: LCS-182668	Client ID:					Units: ug/L	Prep Date: 10/21/2013	Run No: 254232			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 182668	Analysis Date: 10/21/2013	Seq No: 5339107			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	58.49	5.0	50.00		117	63.1	140				
Benzene	52.02	5.0	50.00		104	74.2	129				
Chlorobenzene	54.01	5.0	50.00		108	70	129				
Toluene	54.67	5.0	50.00		109	74.2	129				
Trichloroethene	58.15	5.0	50.00		116	71.2	135				
Surr: 4-Bromofluorobenzene	50.75	0	50.00		102	66.2	120				
Surr: Dibromofluoromethane	51.93	0	50.00		104	79.5	121				
Surr: Toluene-d8	48.76	0	50.00		97.5	77	117				

Sample ID: 1310D79-009AMS	Client ID: C-1013-DP-1	Units: ug/L			Prep Date: 10/21/2013	Run No: 254273					
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 182668			Analysis Date: 10/21/2013	Seq No: 5339286					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	45.64	5.0	50.00		91.3	60.2	159				
Benzene	47.08	5.0	50.00		94.2	70.2	138				
Chlorobenzene	55.41	5.0	50.00		111	70.1	133				
Toluene	51.68	5.0	50.00		103	70	139				
Trichloroethene	56.80	5.0	50.00		114	70.1	144				
Surr: 4-Bromofluorobenzene	48.05	0	50.00		96.1	66.2	120				
Surr: Dibromofluoromethane	53.03	0	50.00		106	79.5	121				
Surr: Toluene-d8	49.63	0	50.00		99.3	77	117				

Sample ID: 1310D79-009AMSD	Client ID: C-1013-DP-1	Units: ug/L			Prep Date: 10/21/2013	Run No: 254273					
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 182668			Analysis Date: 10/21/2013	Seq No: 5339287					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	47.39	5.0	50.00		94.8	60.2	159	45.64	3.76	19.2	
Benzene	49.27	5.0	50.00		98.5	70.2	138	47.08	4.55	20	

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

Client: Peachtree Environmental
Project Name: Columbia Co Car Care Center
Workorder: 1310D79

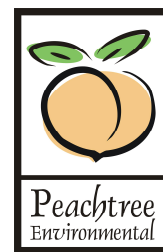
ANALYTICAL QC SUMMARY REPORT

BatchID: 182668

Sample ID: 1310D79-009AMSD	Client ID: C-1013-DP-1	Units: ug/L	Prep Date: 10/21/2013	Run No: 254273							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 182668	Analysis Date: 10/21/2013	Seq No: 5339287							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	56.60	5.0	50.00		113	70.1	133	55.41	2.12	20	
Toluene	53.91	5.0	50.00		108	70	139	51.68	4.22	20	
Trichloroethene	59.68	5.0	50.00		119	70.1	144	56.80	4.95	20	
Surr: 4-Bromofluorobenzene	47.42	0	50.00		94.8	66.2	120	48.05	0	0	
Surr: Dibromofluoromethane	51.91	0	50.00		104	79.5	121	53.03	0	0	
Surr: Toluene-d8	49.25	0	50.00		98.5	77	117	49.63	0	0	

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



APPENDIX B

FIELD NOTES

Location: 4014 Washington St Date: 10-15-13³
Martinez, GA Car
Project / Client: Columbia Co. Core Center
Summary 78° 11.1 11.1

	MW - 10D		WT	Total		2.15 961
Time	Temp	PH	ORP	Cond	turb	DO
915	22.31	6.20	333	0.034	3.85	1.13
920	22.70	6.22	329	0.037	3.02	0.18
925	22.98	6.19	342	0.025	3.02	1.68
930	23.00	6.19	348	0.034	2.16	2.65
935	23.05	6.23	350	0.932	1.66	1.05
940	23.04	6.24	351	0.031	1.57	1.02

Sampled 950

	MW-10	WL	total	2ga	
		6.81	13.89		
temp	PH	ORP	cond	turb	DO
25.40	4.82	374	.035	6.04	9.03
25.83	4.77	393	.035	1.03	5.87
25.92	4.75	396	.035	0.87	5.47
26.02	4.72	401	.035	0.66	5.42
26.06	4.71	403	.035	0.59	5.37

Sampled 1035

Location 4014 Washington Rd Date 10-15-13
 Project / Client Martinez CCCCC

			<u>WL</u>	<u>total</u>		
	MW-15D		7.00	28.79	6.2	gal
time	temp	PH	ORP	cond	turb	DO
1115	24.05	6.34	267	.064	164	1.89
1120	24.12	6.34	262	.065	78.6	1.81
1125	24.28	6.41	267	.066	74.2	1.82
1130	23.90	6.44	268	.060	60.4	1.88
1135	23.89	6.40	253	.063	59.2	1.87
1140	23.83	6.42	250	.060	69.0	1.89
1145	23.72	6.48	256	.058	73.7	1.95

Sampled 1150

Well has 6" to 8" silt in bottom

			<u>WL</u>	<u>total</u>		
	MW-15		7.38	13.75	2gal	
time	temp	PH	ORP	cond	turb	DO
1215	24.14	4.88	442	.110	21.7	8.15
1220	23.77	4.53	432	.109	7.54	7.32
1225	24.08	4.53	460	.109	3.19	6.85
1230	24.37	4.55	468	.108	1.31	6.07
1235	24.49	4.56	471	.108	1.28	6.02

Sampled 1240

Well has 4" to 6" silt in bottom

Location 4014 Washington Date 10-15-13
 Project / Client CCCCC

			<u>WL</u>	<u>total</u>		
	MW-5D		7.41	36.60	2gal	
time	temp	PH	ORP	cond	turb	DO
1300	26.68	6.15	384	.054	9.23	4.92
1305	26.71	6.11	392	.054	8.35	4.33
1310	26.78	6.05	403	.054	8.70	3.59
1315	26.85	6.03	406	.054	8.60	3.62
1320	26.96	6.05	405	.054	8.64	3.70
1325	26.99	6.06	405	.054	8.58	3.72

Sampled 1330

Well has 1" to 2" silt in bottom

			<u>WL</u>	<u>total</u>		
	MW-5DD		1.72	76.51	3.25	gal
time	temp	PH	ORP	cond	turb	DO
1340	26.95	6.58	384	.117	7.17	3.16
1345	26.54	7.05	361	.183	6.49	0
1350	26.11	7.09	347	.187	7.49	0
1355	25.95	7.06	338	.188	7.60	0
1400	25.78	7.06	334	.188	7.40	0
1405	25.69	7.05	330	.188	7.44	0

Sampled 1410

Location 4014 Washington Date 10.15.13

Project / Client _____

		<u>WL</u>		<u>total</u>			
MW-11D		7.30		32.75		2 gal	
time	temp	PH	ORP	Cond	turb	DO	
1430	25.14	6.32	337	.057	6.86	29.44	
1435	26.06	6.16	366	.055	8.19	12.98	
1440	25.15	5.97	399	.053	7.88	3.77	
1445	25.01	5.92	408	.052	7.72	2.93	
1450	24.98	5.90	410	.052	6.98	2.91	
1455	24.94	5.88	414	.052	6.89	2.97	

Sampled 1500

		<u>WL</u>		<u>total</u>			
PMW-1		7.45		20.72		3.75	
time	temp	PH	ORP	Cond	turb	DO	
1515	26.82	5.83	6	.059	83.4	0	
1520	26.88	5.70	15	.065	29.	0	
1525	26.94	5.30	75	.083	7.17	1.08	
1530	26.98	4.99	143	.094	4.41	2.36	
1535	27.02	4.83	204	.098	2.63	2.59	
1540	27.06	4.75	224	.099	2.96	2.73	
1545	27.10	4.72	230	.099	2.90	2.79	
1550	27.07	4.69	234	.100	2.81	2.86	

Sampled 1600

DP-1 Sampled 1600

Location 4014 Washington Date 10.15.13⁷

Project / Client _____

- * MW-5DD Well vault ^{Pool} broke needs to be replaced.
- * All wells need new cap & locks except PMW-1 only needs lock
- * MW-15, MW-15D, & MW-5D need to be developed (silt)
- * Well between site & property to the west is 30" to asphalt with a 4" concrete cap block in middle @ PMW-1



APPENDIX C

RISK REDUCTION STANDARD CALCULATIONS

Summary: Risk Reduction Standards for Soil

Constituents	CAS Number	Type 1 Soil Criteria (mg/kg)	Type 2 Soil Criteria (mg/kg)	Type 3 Soil Criteria (surface & subsurface) (mg/kg)	Type 4 Soil Criteria (surface & subsurface) (mg/kg)
<u>Volatile Organics</u>					
cis-1,2-Dichloroethene	156-59-2	7.00	0.41	7.00	1.20
Tetrachloroethene	127-18-4	0.500	0.17	0.500	0.83
Trichloroethene	79-01-6	0.500	0.04	0.500	0.04

Type 1 Risk Reduction Standards for Soil [Rule 391-3-19-.07(6)(c)]

Constituents (mg/kg)	Appendix III Table 2 Value	Item 1 (i) Appendix I Concentration	Item 1 (ii) Type 1 GW Criteria x 100	Greatest of Item i - ii	Item 2 RAGS (Equ 7) Non-Carcinogenic	Item 3 RAGS (Equ 6) Carcinogenic	Type 1 RRS (mg/kg)
<u>Volatile Organics</u>							
cis-1,2-Dichloroethene	--	0.53	7.00	7.00	1.28E+03	--	7.00
Tetrachloroethene	--	0.18	0.500	0.50	1.41E+02	3.15E+02	0.500
Trichloroethene	--	0.13	0.500	0.50	6.63E+00	1.82E+01	0.500

Notes:

- 1) Dashes (--) indicate the information was not available for the referenced constituent.
- 2) numbers in **bold** indicate the Type 1 RRS for the constituent

Type 1 Non-Carcinogenic Evaluation for Soil; Residential Use Scenario (RAGS Equ. 7)

Constituents	THI	BW	AT	CF	EF	ED	IR s	CF	Oral RfD	IR a	VF	PEF	Inh. RfD	Type 1 Soil Std.	Remarks
	(kg)	(yr)	(d/yr)	(d/yr)	(yr)	(mg/d)	(kg/mg)	(mg/kg-d)	(m3/d)	(m3/kg)	(m3/kg)	(mg/kg-d)	(mg/kg)		
<u>Volatile Organics</u>															
cis-1,2-Dichloroethene	1	70	30	365	350	30	114	1.0E-06	2.0E-03	15	2.73E+03	4.63E+09	--	1.28E+03	oral only
Tetrachloroethene	1	70	30	365	350	30	114	1.0E-06	6.0E-03	15	2.64E+03	4.63E+09	1.1E-02	1.41E+02	oral & inh.
Trichloroethene	1	70	30	365	350	30	114	1.0E-06	5.0E-04	15	2.44E+03	4.63E+09	5.7E-04	6.63E+00	oral & inh.

Type 1 Carcinogenic Evaluation for Soil; Residential Use Scenario (RAGS Equ. 6)

Constituents	Weight of Evidence	TR	BW (kg)	AT (yr)	CF (d/yr)	EF (d/yr)	ED (yr)	IR s (mg/d)	CF (kg/mg)	Oral SF (mg/kg-d)-1	IR a (m3/d)	VF (m3/kg)	PEF (m3/kg)	Inh. SF (mg/kg-d)-1	Type 1 Soil Std. (mg/kg)	Remarks
<u>Volatile Organics</u>																
cis-1,2-Dichloroethene	D	—	70	70	365	350	30	114	1.0E-06	—	15	2.73E+03	4.63E+09	—	—	no tox values
Tetrachloroethene	B	1.00E-05	70	70	365	350	30	114	1.0E-06	2.10E-03	15	2.64E+03	4.63E+09	9.10E-04	3.15E+02	oral & inh.
Trichloroethene	A	1.00E-05	70	70	365	350	30	114	1.0E-06	4.60E-02	15	2.44E+03	4.63E+09	1.44E-02	1.82E+01	oral & inh.

Calculation of the Volatilization Factor

Parameter	Default Value
LS, Length of side of contaminated area (m)	45
V, Wind speed in mixing zone (m/s)	2.25
DH, Diffusion height, m	2
A, Area of contamination (sq. m)	2030
A, Area of contamination (sq. cm)	2.03E+07
E, True soil porosity (unitless)	0.35
ps, true soil density, g/cc	2.65
T, exposure interval, s	7.90E+08
G, fraction of vegetative cover (unitless)	0
OC, Soil organic carbon content (fraction)	0.02

Constituent	Molecular Wt. (g/mol)	Diffusivity (cm ² /s)	Henry's Law constant (atm-m ³ /mol)	Kd (cm ³ /g)	Koc (cm ³ /g)	Dei (cm ² /s)	Kas (g/cm ³)	alpha (cm ² /s)	VF (m ³ /kg)	Remarks
Volatile Organics (mg/kg)										
cis-1,2-Dichloroethene	96.94	0.0884088	4.08E-03	0.792	39.6	0.06252	2.11E-01	2.57E-03	2.73E+03	
Tetrachloroethene	165.83	0.0504664	1.77E-02	1.899	94.94	0.03569	3.82E-01	2.57E-03	2.64E+03	
Trichloroethene	131.39	0.0686618	9.85E-03	1.214	60.7	0.04856	3.33E-01	3.07E-03	2.44E+03	

Default values are from Appendix III, Table 3 of the HSRA regulations.

Physical/chemical parameters obtained from U.S. EPA Mid-Atlantic Risk Assessment Regional Screening Tables (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm) unless otherwise noted..

The soil-air concentration relationship is applicable only to constituents with a Henry's Law constant of greater than 1×10^{-5} atm-m³/mole and a molecular weight of less than 200 g/mole (RAGS Part B, EPA, 1991).

Type 2 Risk Reduction Standards for Soil [Rule 391-3-19-.07(7)(c)]

Constituents (mg/kg)	Item 1	Item 2		Item 3		Least of Items 1 - 3	TYPE 2 RRS (mg/kg)
	Groundwater Protection Standard	RAGS (Equ 7) Non-Carc Adult	Non-Carc Child	RAGS (Equ 6) Carc Adult	Carc Child		
<u>Volatile Organics</u>							
cis-1,2-Dichloroethene	0.41	1.46E+03	1.56E+02	--	--	4.12E-01	0.41
Tetrachloroethene	0.17	1.07E+02	2.95E+01	3.00E+02	3.26E+02	1.73E-01	0.17
Trichloroethene	0.04	5.01E+00	1.40E+00	1.74E+01	1.87E+01	3.57E-02	0.04

Notes:

- 1) Dashes (--) indicate the information was not available for the referenced constituent.
- 2) numbers in **bold** indicate the Type 2 RRS for the constituent

Type 2 Non-Carcinogenic Evaluation for Soil; Residential Adult (RAGS Equ. 7)

Constituents	THI	BW	AT	CF	EF	ED	IR s	CF	Oral RfD	IR a	VF	PEF	Inh. RfD	Type 2 Soil Std.	Remarks
	(kg)	(yr)	(d/yr)	(d/yr)	(yr)	(mg/d)	(kg/mg)	(mg/kg-d)	(m3/d)	(m3/kg)	(m3/kg)	(mg/kg-d)	(mg/kg)		
<u>Volatile Organics</u>															
cis-1,2-Dichloroethene	1	70	24	365	350	24	100	1.0E-06	2.0E-03	20	2.73E+03	4.63E+09	—	1.46E+03	oral only
Tetrachloroethene	1	70	24	365	350	24	100	1.0E-06	6.0E-03	20	2.64E+03	4.63E+09	1.1E-02	1.07E+02	oral & inh.
Trichloroethene	1	70	24	365	350	24	100	1.0E-06	5.0E-04	20	2.44E+03	4.63E+09	5.7E-04	5.01E+00	oral & inh.

Type 2 Non-Carcinogenic Evaluation for Soil; Residential Child (RAGS Equ. 7)

Constituents	THI	BW	AT	CF	EF	ED	IR s	CF	Oral RfD	IR a	VF	PEF	Inh. RfD	Type 2 Soil Std.	Remarks
	(kg)	(yr)	(d/yr)	(d/yr)	(yr)	(mg/d)	(kg/mg)	(mg/kg-d)	(m3/d)	(m3/kg)	(m3/kg)	(mg/kg-d)	(mg/kg)		
<u>Volatile Organics</u>															
cis-1,2-Dichloroethene	1	15	6	365	350	6	200	1.0E-06	2.0E-03	15	2.73E+03	4.63E+09	--	1.56E+02	oral only
Tetrachloroethene	1	15	6	365	350	6	200	1.0E-06	6.0E-03	15	2.64E+03	4.63E+09	1.1E-02	2.95E+01	oral & inh.
Trichloroethene	1	15	6	365	350	6	200	1.0E-06	5.0E-04	15	2.44E+03	4.63E+09	5.7E-04	1.40E+00	oral & inh.

Type 2 Carcinogenic Evaluation for Soil; Residential Adult (RAGS Equ. 6)

Constituents	Weight of Evidence	TR	BW (kg)	AT (yr)	CF (d/yr)	EF (d/yr)	ED (yr)	IR s (mg/d)	CF (kg/mg)	Oral SF (mg/kg-d)-1	IR a (m3/d)	VF (m3/kg)	PEF (m3/kg)	Inh. SF (mg/kg-d)-1	Type 2 Soil Std. (mg/kg)	Remarks
<u>Volatile Organics</u>																
cis-1,2-Dichloroethene	D	—	70	70	365	350	24	100	1.0E-06	—	20	2.73E+03	4.63E+09	—	—	no tox values
Tetrachloroethene	B	1.00E-05	70	70	365	350	24	100	1.0E-06	2.10E-03	20	2.64E+03	4.63E+09	9.10E-04	3.00E+02	oral & inh.
Trichloroethene	A	1.00E-05	70	70	365	350	24	100	1.0E-06	4.60E-02	20	2.44E+03	4.63E+09	1.44E-02	1.74E+01	oral & inh.

Type 2 Carcinogenic Evaluation for Soil; Residential Child (RAGS Equ. 6)

Constituents	Weight of Evidence	TR	BW (kg)	AT (yr)	CF (d/yr)	EF (d/yr)	ED (yr)	IR s (mg/d)	CF (kg/mg)	Oral SF (mg/kg-d)-1	IR a (m3/d)	VF (m3/kg)	PEF (m3/kg)	Inh. SF (mg/kg-d)-1	Type 2 Soil Std. (mg/kg)	Remarks
<u>Volatile Organics</u>																
cis-1,2-Dichloroethene	D	--	15	70	365	350	6	200	1.0E-06	--	15	2.73E+03	4.63E+09	--	--	no tox values
Tetrachloroethene	B	1.00E-05	15	70	365	350	6	200	1.0E-06	2.10E-03	15	2.64E+03	4.63E+09	9.10E-04	3.26E+02	oral & inh.
Trichloroethene	A	1.00E-05	15	70	365	350	6	200	1.0E-06	4.60E-02	15	2.44E+03	4.63E+09	1.44E-02	1.87E+01	oral & inh.

Type 2 Soil Screening Level for Migration to Groundwater

Constituents	Cw		Kd (L/kg)	Koc (L/kg)	foc* (g/g)	Ow** (Lwater/ Lsoil)	Oa (Lair/Lsoil)	n (Lpore/Lsoil)	Pb** (kg/L)	Ps** (kg/L)	H' (unitless)	Soil Screening Level (mg/kg)
	Type 1 or 2 GW Criteria (mg/L)	DAF (unitless)										
Volatile Organics												
cis-1,2-Dichloroethene	0.070	20	7.92E-02	39.6	0.002	0.3	0.134	0.434	1.5	2.65	0.166803	0.412
Tetrachloroethene	0.019	20	1.90E-01	94.94	0.002	0.3	0.134	0.434	1.5	2.65	0.72363	0.173
Trichloroethene	0.005	20	1.21E-01	60.7	0.002	0.3	0.134	0.434	1.5	2.65	0.402698	0.036

Notes:

Physical/chemical parameters obtained from U.S. EPA Mid-Atlantic Risk Assessment Regional Screening Tables (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm) except as noted below.

* Site-specific values for foc derived from three on-site samples

** Values for Ow, Pb, and Ps obtained from Appendix B (Equation 13) of Supplemental Guidance for Developing Sol Screening Levels for Superfund Sites
 Soil screening level = $Cw [Kd + (Ow + Oa \cdot H') / Pb]$

Cw = target soil leachate concentration (mg/L)

Cw = groundwater criteria * dilution attenuation factor (DAF)

Kd = soil-water partition coefficient (L/kg) = Koc x foc

Koc=soil organic carbon-water partition coefficient (L/kg)

foc = fraction organic carbon-water partition coefficient (g/g)

Ow = water-filled soil porosity (Lwater/Lsoil)

Oa = air-filled soil porosity (Lair/Lsoil) = n-Ow

n = soil porosity (Lpore/Lsoil) = 1-(Pb/Ps)

Pb = dry soil bulk density (kg/L)

Ps = soil particle density (kg/L)

H' = dimensionless Henry's Law Constant

Type 3 Risk Reduction Standards for Soil [Rule 391-3-19-.07(8)(d)]

Constituents (mg/kg)	Item 1 (i) Appendix I Concentration	Item 1 (ii) Type 1 GW Criteria x 100	Greatest of Item i - ii	Type 3 RRS (subsurface) (mg/kg)	Item 2 RAGS (Equ 7) Non-Carcinogenic	Item 3 RAGS (Equ 6) Carcinogenic	Type 3 RRS (surficial) (mg/kg)
<u>Volatile Organics:</u>							
cis-1,2-Dichloroethene	0.530	7.00	7.00E+00	7.00	4,088	--	7.00
Tetrachloroethene	0.180	0.500	5.00E-01	0.500	152	409	0.500
Trichloroethene	0.130	0.500	5.00E-01	0.500	7.06	23.8	0.500

Notes:

- 1) Dashes (--) indicate the information was not available for the referenced constituent.
- 2) numbers in **bold** indicate the Type 3 RRS for the constituent

Type 3 Non-Carcinogenic Evaluation for Soil; Non-Residential Adult (RAGS Equ. 7)

Constituents	THI	BW	AT	CF	EF	ED	IR s	CF	Oral RfD	IR a	VF	PEF	Inh. RfD	Type 3 Soil Std.	Remarks
	(kg)	(yr)	(d/yr)	(d/yr)	(yr)	(mg/d)	(kg/mg)	(mg/kg-d)	(m3/d)	(m3/kg)	(m3/kg)	(mg/kg-d)	(mg/kg)		
<u>Volatile Organics:</u>															
cis-1,2-Dichloroethene	1	70	25	365	250	25	50	1.0E-06	2.0E-03	20	2.73E+03	4.63E+09	--	4.09E+03	oral only
Tetrachloroethene	1	70	25	365	250	25	50	1.0E-06	6.0E-03	20	2.64E+03	4.63E+09	1.1E-02	1.52E+02	oral & inh.
Trichloroethene	1	70	25	365	250	25	50	1.0E-06	5.0E-04	20	2.44E+03	4.63E+09	5.7E-04	7.06E+00	oral & inh.

Type 3 Carcinogenic Evaluation for Soil; Non-Residential Adult (RAGS Equ. 6)

Constituents	Weight of Evidence	TR	BW (kg)	AT (yr)	CF (d/yr)	EF (d/yr)	ED (yr)	IR s (mg/d)	CF (kg/mg)	Oral SF (mg/kg-d)-1	IR a (m3/d)	VF (m3/kg)	PEF (m3/kg)	Inh. SF (mg/kg-d)-1	Type 3 Soil Std. (mg/kg)	Remarks
<u>Volatile Organics:</u>																
cis-1,2-Dichloroethene	D	--	70	70	365	250	25	50	1.0E-06	--	20	0.00E+00	4.63E+09	--	--	no tox values
Tetrachloroethene	B	1.00E-05	70	70	365	250	25	50	1.0E-06	2.10E-03	20	2.64E+03	4.63E+09	9.10E-04	4.09E+02	oral & inh.
Trichloroethene	A	1.00E-05	70	70	365	250	25	50	1.0E-06	4.60E-02	20	2.44E+03	4.63E+09	1.44E-02	2.38E+01	oral & inh.

Type 4 Risk Reduction Standards for Soil [Rule 391-3-19-.07(9)(d)]

Constituents (mg/kg)	Item 1 Groundwater Protection Standard	Type 4 RRS (subsurface) (mg/kg)	Item 2 RAGS (Equ 7) Non-Carcinogenic	Item 3 RAGS (Equ 6) Carcinogenic	Type 4 RRS (surficial) (mg/kg)
<u>Volatile Organics:</u>					
cis-1,2-Dichloroethene	1.20	1.20	1.53E+02	--	1.20
Tetrachloroethene	0.83	0.83	1.52E+02	4.09E+02	0.83
Trichloroethene	0.04	0.04	1.25E+02	2.38E+01	0.04

Notes:

- 1) Dashes (--) indicate the information was not available for the referenced constituent.
- 2) numbers in **bold** indicate the Type 4 RRS for the constituent
- 3) Groundwater Protection Standard for PCE & Aroclor-1260 based on SSL leaching model; Groundwater Protection Standard for PCBs based on SPLP testing

Type 4 Non-Carcinogenic Evaluation for Soil; Non-Residential Adult (RAGS Equ. 7)

	THI	BW	AT	CF	EF	ED	IR s	CF	Oral RfD	IR a	VF	PEF	Inh. RfD	Type 4 Soil Std.	Remarks
Constituents		(kg)	(yr)	(d/yr)	(d/yr)	(yr)	(mg/d)	(kg/mg)	(mg/kg-d)	(m3/d)	(m3/kg)	(m3/kg)	(mg/kg-d)	(mg/kg)	
<u>Volatile Organics:</u>															
cis-1,2-Dichloroethene	1	70	25	365	250	25	50	1.0E-06	2.0E-03	20	2.73E+03	4.63E+09	1.1E-02	1.53E+02	oral & inh.
Tetrachloroethene	1	70	25	365	250	25	50	1.0E-06	6.0E-03	20	2.64E+03	4.63E+09	1.1E-02	1.52E+02	oral & inh.
Trichloroethene	1	70	25	365	250	25	50	1.0E-06	5.0E-04	20	2.44E+03	4.63E+09	1.1E-02	1.25E+02	oral & inh.

Type 4 Carcinogenic Evaluation for Soil; Non-Residential Adult (RAGS Equ. 6)

Constituents	Weight of Evidence	TR	BW (kg)	AT (yr)	CF (d/yr)	EF (d/yr)	ED (yr)	IR s (mg/d)	CF (kg/mg)	Oral SF (mg/kg-d)-1	IR a (m3/d)	VF (m3/kg)	PEF (m3/kg)	Inh. SF (mg/kg-d)-1	Type 4 Soil Std. (mg/kg)	Remarks
<u>Volatile Organics:</u>																
cis-1,2-Dichloroethene	D	--	70	70	365	250	25	50	1.0E-06	--	20	0.00E+00	4.63E+09	--	--	no tox values
Tetrachloroethene	B	1.00E-05	70	70	365	250	25	50	1.0E-06	2.10E-03	20	2.64E+03	4.63E+09	9.10E-04	4.09E+02	oral & inh.
Trichloroethene	A	1.00E-05	70	70	365	250	25	50	1.0E-06	4.60E-02	20	2.44E+03	4.63E+09	1.44E-02	2.38E+01	oral & inh.

Type 4 Soil Screening Level for Migration to Groundwater

Constituents	Cw		Kd (L/kg)	Koc (L/kg)	foc* (g/g)	Ow** (Lwater/ Lsoil)	Oa (Lair/Lsoil)	n (Lpore/Lsoil)	Pb** (kg/L)	Ps** (kg/L)	H' (unitless)	Soil Screening Level (mg/kg)
	Type 3 or 4 GW Criteria (mg/L)	DAF (unitless)										
<u>Volatile Organics</u>												
cis-1,2-Dichloroethene	0.204	20	7.92E-02	39.6	0.002	0.3	0.134	0.434	1.5	2.65	0.166803	1.202
Tetrachloroethene	0.091	20	1.90E-01	94.94	0.002	0.3	0.134	0.434	1.5	2.65	0.72363	0.829
Trichloroethene	0.005	20	1.21E-01	60.7	0.002	0.3	0.134	0.434	1.5	2.65	0.402698	0.037

Notes:

Physical/chemical parameters obtained from U.S. EPA Mid-Atlantic Risk Assessment Regional Screening Tables (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm) except as noted below.

* Site-specific values for foc derived from three on-site samples

** Values for foc, Ow, Pb, and Ps obtained from Appendix B (Equation 13) of Supplemental Guidance for Developing Sol Screening Levels for Superfund
Soil screening level = $Cw [Kd + (Ow + Oa \cdot H') / Pb]$

Cw = target soil leachate concentration (mg/L)

Cw = groundwater criteria * dilution attenuation factor (DAF)

Kd = soil-water partition coefficient (L/kg) = Koc x foc

Koc=soil organic carbon-water partition coefficient (L/kg)

foc = fraction organic carbon-water partition coefficient (g/g)

Ow = water-filled soil porosity (Lwater/Lsoil)

Oa = air-filled soil porosity (Lair/Lsoil) = n-Ow

n = soil porosity (Lpore/Lsoil) = 1-(Pb/Ps)

Pb = dry soil bulk density (kg/L)

Ps = soil particle density (kg/L)

H' = dimensionless Henry's Law Constant

Summary: Risk Reduction Standards for Groundwater

Constituents	CAS Number	Type 1/3 GW Criteria (mg/L)	Type 2 GW Criteria (mg/L)	Type 4 GW Criteria (mg/L)
<u>Volatile Organics:</u>				
cis-1,2-Dichloroethene	156-59-2	0.070	0.031	0.204
Tetrachloroethene	127-18-4	0.005	0.019	0.091
Trichloroethene	79-01-6	0.005	0.005	0.005

Type 2 Risk Reduction Standards for Groundwater[Rule 391-3-19-.07(7)(b)]

Constituents (mg/L)	Item 1 RAGS (Equ 2) Non-Carc Adult	Item1 RAGS (Equ 2) Non-Carc Child	Item 2 RAGS (Equ 1) Carc Adult	Item 2 RAGS (Equ 1) Carc Child	Least of Items 1 & 2	Detection Limit	TYPE 2 RRS
<u>Volatile Organics:</u>							
cis-1,2-Dichloroethene	9.13E-02	3.13E-02	—	—	3.13E-02	5.00E-03	0.031
Tetrachloroethene	7.55E-02	1.90E-02	1.60E-01	2.04E-01	1.90E-02	5.00E-03	0.019
Trichloroethene	4.24E-03	1.03E-03	9.04E-03	1.19E-02	1.03E-03	5.00E-03	0.005

Type 2 Non-Carcinogenic Evaluation for Groundwater; Residential Adult (RAGS Equ. 2)

Constituents	THI	BW	AT	CF	EF	ED	IR w	Oral RfD	IR a	K	Inh. RfD	Type 2 GW Stnd	Remarks
	(kg)	(yr)	(d/yr)	(d/yr)	(yr)	(L/d)	(mg/kg-d)	(m3/d)	(L/m ³)	(mg/kg-d)	(mg/L)		
<u>Volatile Organics:</u>													
cis-1,2-Dichloroethene	1	70	30	365	350	24	2	2.0E-03	20	0.5	—	9.13E-02	oral only
Tetrachloroethene	1	70	30	365	350	24	2	6.0E-03	20	0.5	1.1E-02	7.55E-02	oral & inh.
Trichloroethene	1	70	30	365	350	24	2	5.0E-04	20	0.5	5.7E-04	4.24E-03	oral & inh.

Type 2 Non-Carcinogenic Evaluation for Groundwater; Residential Child (RAGS Equ. 2)

Constituents	Type 2												Remarks
	THI	BW	AT	CF	EF	ED	IR w	Oral RfD	IR a	K	Inh. RfD	GW Stnd	
	(kg)	(yr)	(d/yr)	(d/yr)	(yr)	(L/d)	(mg/kg-d)	(m3/d)	(L/m ³)	(mg/kg-d)	(mg/L)	(mg/L)	
<u>Volatile Organics:</u>													
cis-1,2-Dichloroethene	1	15	6	365	350	6	1	2.0E-03	15	0.5	--	3.13E-02	oral only
Tetrachloroethene	1	15	6	365	350	6	1	6.0E-03	15	0.5	1.1E-02	1.90E-02	oral & inh.
Trichloroethene	1	15	6	365	350	6	1	5.0E-04	15	0.5	5.7E-04	1.03E-03	oral & inh.

Type 2 Carcinogenic Evaluation for Groundwater; Residential Adult (RAGS Equ. 1)

Constituents	Weight of Evidence	TR	BW (kg)	AT (yr)	CF (d/yr)	EF (d/yr)	ED (yr)	IR w (L/d)	Oral SF (mg/kg-d)-1	IR a (m3/d)	K (L/m ³)	Inh. SF (mg/kg-d)-1	Type 2 GW Stnd (mg/L)	Remarks
<u>Volatile Organics:</u>														
cis-1,2-Dichloroethene	D	--	70	70	365	350	24	2	--	20	0.5	--	--	no tox values
Tetrachloroethene	B	1.00E-05	70	70	365	350	24	2	2.10E-03	20	0.5	9.10E-04	1.60E-01	oral & inh.
Trichloroethene	A	1.00E-05	70	70	365	350	24	2	4.60E-02	20	0.5	1.44E-02	9.04E-03	oral & inh.

Type 2 Carcinogenic Evaluation for Groundwater; Residential Child (RAGS Equ. 1)

Constituents	Weight of Evidence	TR	BW (kg)	AT (yr)	CF (d/yr)	EF (d/yr)	ED (yr)	IR w (L/d)	Oral SF (mg/kg-d)-1	IR a (m3/d)	K (L/m ³)	Inh. SF (mg/kg-d)-1	Type 2 GW Stnd (mg/L)	Remarks
<u>Volatile Organics:</u>														
cis-1,2-Dichloroethene	D	--	15	70	365	350	6	1	--	15	0.5	--	--	no tox values
Tetrachloroethene	B	1.00E-05	15	70	365	350	6	1	2.10E-03	15	0.5	9.10E-04	2.04E-01	oral & inh.
Trichloroethene	A	1.00E-05	15	70	365	350	6	1	4.60E-02	15	0.5	1.44E-02	1.19E-02	oral & inh.

Type 4 Risk Reduction Standards for Groundwater[Rule 391-3-19-.07(9)(c)]

Constituents (mg/L)	Item 1 RAGS (Equ 2) Non-Carc Adult	Item 2 RAGS (Equ 1) Carc Adult	Least of Items 1 & 2	Detection Limit	TYPE 4 RRS
Volatile Organics:					
cis-1,2-Dichloroethene	2.04E-01	—	2.04E-01	5.00E-03	0.204
Tetrachloroethene	9.81E-02	9.13E-02	9.13E-02	5.00E-03	0.091
Trichloroethene	5.24E-03	5.39E-03	5.24E-03	5.00E-03	0.005

Type 4 Non-Carcinogenic Evaluation for Groundwater; Residential Adult (RAGS Equ. 2)

Constituents	THI	BW (kg)	AT (yr)	CF (d/yr)	EF (d/yr)	ED (yr)	IR w (L/d)	Oral RfD (mg/kg-d)	IR a (m3/d)	K (L/m ³)	Inh. RfD (mg/kg-d)	Type 4 GW Stnd (mg/L)	Remarks
<u>Volatile Organics:</u>													
cis-1,2-Dichloroethene	1	70	25	365	250	25	1	2.0E-03	20	0.5	—	2.04E-01	oral only
Tetrachloroethene	1	70	25	365	250	25	1	6.0E-03	20	0.5	1.1E-02	9.81E-02	oral & inh.
Trichloroethene	1	70	25	365	250	25	1	5.0E-04	20	0.5	5.7E-04	5.24E-03	oral & inh.

Type 4 Carcinogenic Evaluation for Groundwater; Residential Adult (RAGS Equ. 1)

Constituents	Weight of Evidence	TR	BW (kg)	AT (yr)	CF (d/yr)	EF (d/yr)	ED (yr)	IR w (L/d)	Oral SF (mg/kg-d)-1	IR a (m3/d)	K (L/m ³)	Inh. SF (mg/kg-d)-1	Type 4 GW Stnd (mg/L)	Remarks
<u>Volatile Organics:</u>														
cis-1,2-Dichloroether	D	--	70	25	365	250	25	1	--	20	0.5	--	--	no tox values
Tetrachloroethene	B	1.00E-05	70	25	365	250	25	1	2.10E-03	20	0.5	9.10E-04	9.13E-02	oral & inh.
Trichloroethene	A	1.00E-05	70	25	365	250	25	1	4.60E-02	20	0.5	1.44E-02	5.39E-03	oral & inh.



APPENDIX D

SUMMARY OF PROFESSIONAL HOURS

Marvera Ventures, LLC dba Peachtree Environmental
Time by Job Detail
July 2013 through May 2014

Date	Name	Duration	Notes
Harinderjit Singh:3226 - Columbia County Car Care Center			
Sr Project Manager			
4/15/2014	Steven W. Hart	4:00	File Review
4/22/2014	Steven W. Hart	0:30	cost analysis
5/6/2014	Steven W. Hart	2:00	SAR
5/8/2014	Steven W. Hart	1:00	update extension letter
5/13/2014	Steven W. Hart	1:30	conference call w/M. Shelton
5/14/2014	Steven W. Hart	2:00	response to comments
5/15/2014	Steven W. Hart	3:30	response to comments
5/16/2014	Steven W. Hart	1:00	response to comments
5/16/2014	Steven W. Hart	3:00	semiannual progress report
5/22/2014	Steven W. Hart	5:00	semiannual progress report
5/23/2014	Steven W. Hart	8:00	semiannual progress report
Total Sr Project Manager		31:30	
Total Harinderjit Singh:3226 - C...		31:30	
TOTAL		31:30	