

# **COMPLIANCE STATUS REPORT AND COMPLIANCE STATUS CERTIFICATION**

**Former Dynamic Metals  
690 DeKalb Avenue Parcel  
Atlanta, Fulton County, Georgia**

**Hazardous Site Inventory/Voluntary Remediation  
Program Site #10704**

AEM Project No. 1133-1401-6

April 28, 2014

Prepared For:

**Aramark Uniform & Career Apparel, LLC  
115 North First Street  
Burbank, California 91502**

Prepared By:



---

**ATLANTA ENVIRONMENTAL MANAGEMENT, INC.**

*Environmental Consulting, Engineering, Hydrogeologic Services*

2580 Northeast Expressway • Atlanta, Georgia 30345

Office (404) 329-9006 • Fax (404) 329-2057

## COMPLIANCE STATUS CERTIFICATION

I certify under penalty of law that this report and all attachments were prepared under my direction in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Based on my review of the findings of this report with respect to the risk reduction standards of the Rules for Hazardous Site Response, Rule 391-3-19-.07, I have determined that soil at the Former Dynamic Metals Site, Parcel 14-0020-0000-202-4, 690 DeKalb Avenue, Fulton County, Georgia, is in compliance with the Type 1 Risk Reduction Standard for select volatile organic compounds (VOCs).

Although groundwater beneath the Former Dynamic Metals parcel is not in compliance with Type 1 RRSs for the VOCs cis-1,2-dichloroethene and vinyl chloride, the identified VOCs are degradation products from source material and VOC impacts in groundwater at the former Aratex site located at 670 DeKalb Avenue, also a part of Hazardous Sites Inventory (HSI)/ Voluntary Remediation Program Site No. 10704.

Reported releases to groundwater in January 2014 did not exceed HSRA Reportable Quantity per the Reportable Quantity Screening Method (RQSM). In accordance with §12-8-107(g)(2) of the VIRP, corrective action for groundwater is not required, nor is certification of compliance required for groundwater.

4/28/2014  
Date

Doug Helmstetter  
Doug Helmstetter  
Senior Director, Environmental Compliance  
and Sustainability  
Aramark Uniform & Career Apparel, LLC

## PROFESSIONAL GEOLOGIST CERTIFICATION

I certify that I am a qualified groundwater scientist who has received a baccalaureate or postgraduate degree in the natural sciences or engineering and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration 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 subordinates working under my direction.

April 28, 2014  
Date

Tony L. Gordon

Tony L. Gordon, P.G. #1170  
Senior Project Geologist  
Atlanta Environmental Management, Inc.



## TABLE OF CONTENTS

Compliance Status Certification .....	i
Professional Geologist Certification.....	ii
Table of Contents.....	iii
Executive Summary .....	vi
1.0 Introduction .....	1-1
1.1 Site History .....	1-1
1.2 Objective .....	1-2
1.3 Report Organization.....	1-3
2.0 Site Geology and Groundwater Flow .....	2-1
2.1 Regional Geology .....	2-1
2.1.1 Site Bedrock Geology .....	2-1
2.1.2 Site Residuum Geology.....	2-1
2.2 Regional Hydrogeology .....	2-2
2.3 Site Hydrogeology .....	2-2
2.3.1 Groundwater Occurrence .....	2-2
2.3.2 Groundwater Flow Direction and Hydraulic Gradient.....	2-3
2.3.3 Hydraulic Conductivity.....	2-3
2.3.4 Groundwater Flow Rate .....	2-4
3.0 Site Background and Source Area Description.....	3-1
3.1 Site Description .....	3-1
3.2 Responsible Parties.....	3-1
3.3 Land Use and Operations History .....	3-1
3.4 Site-Specific Chemicals of Interest .....	3-2
3.5 Potential Sources .....	3-2
3.5.1 Underground Storage Tanks .....	3-3
3.5.2 Dry-Cleaning Operations Area .....	3-3
3.5.3 Northwest Property Corner.....	3-3
3.6 Potential Release Mechanisms.....	3-4
3.7 Human and Environmental Receptors .....	3-4
3.8 Risk Reduction Standards .....	3-5



## TABLE OF CONTENTS (CONTINUED)

4.0	Soil Analytical Results .....	4-1
4.1	1992 DePaul Investigation .....	4-1
4.2	1999 QORE Phase I/Phase II Environmental Site Assessment .....	4-2
4.3	2000 Pickering Phase II Environmental Site Assessment .....	4-2
4.4	2001 Bock Environmental Site Assessment.....	4-3
5.0	Corrective Action .....	5-1
5.1	<i>In Situ</i> Chemical Oxidant Injections .....	5-1
5.2	Soil Blending With Chemical Oxidant.....	5-2
6.0	Groundwater Monitoring .....	6-1
6.1	Historical Groundwater Monitoring .....	6-1
6.1.1	Pre–Corrective Action Monitoring .....	6-1
6.1.2	Post–Corrective Action Monitoring .....	6-4
6.2	2014 Groundwater Monitoring Event .....	6-7
6.2.1	Depth-to-Groundwater Measurements .....	6-7
6.2.2	Groundwater Sampling Event.....	6-8
7.0	Monitoring Well Abandonment.....	7-1
8.0	Summary and Conclusions.....	8-1
9.0	References.....	9-1

## LIST OF TABLES

### TABLE

1	Summary of Historical Soil Sample Analytical Results
2	Type 1 Soil and Groundwater Risk Reduction Standards
3	Summary of Constituents of Concern Detected in Groundwater, January 2014
4	Monitoring Well Construction Details

## LIST OF FIGURES

### FIGURE

- 1 Facility Location
- 2 670 and 690 DeKalb Avenue Site Layout
- 3 Historical VOCs and Metals for Soil Detected Above Laboratory Reporting Limits
- 4 Water Table Elevations, Shallow Residuum Aquifer Zone, January 6, 2014
- 5 2005 Sodium Permanganate Pilot Test Injection Locations
- 6 2006 Full Scale *In Situ* Chemical Oxidation Corrective Action
- 7 Limits of Soil Excavation and Soil Blending, 2010
- 8 Historical Groundwater Sample Locations
- 9 Tetrachloroethene in Groundwater, January 2014
- 10 Trichloroethene in Groundwater, January 2014
- 11 cis-1,2-Dichloroethene in Groundwater, January 2014
- 12 Vinyl chloride in Groundwater, January 2014
- 13 Total VOCs in Groundwater Pre and Post Soil Blending

## LIST OF ATTACHMENTS

### ATTACHMENT

- A Groundwater Elevation Data, 2001–2014
- B Legal Description of the 690 DeKalb Avenue Parcel
- C Available Historical Soil Boring Logs/Monitoring Well Construction Logs
- D Historical Groundwater Analytical Data
- E January 2014 Laboratory Analytical Reports
- F Time Trend Charts
- G January 2014 Field Sampling Logs

## EXECUTIVE SUMMARY

The former Dynamic Metals site (the Site) is listed as one of two parcels known as the Aramark Uniform and Career Apparel, LLC (Aramark) DeKalb Avenue site on the Hazardous Site Inventory (HSI). Along with a second parcel (former Aratex site located at 670 DeKalb Avenue), the Aramark DeKalb HSI Site has been issued HSI Number 10704. A facility location map is provided as Figure 1.

The former Dynamic Metals Site is located at 690 DeKalb Avenue, which occupies an area of approximately 1.245 acres. A large pile of clean soil (fill material) is currently situated on the southeast portion of the parcel. A detailed Site map is provided as Figure 2.

Sanborn Maps indicate that the Dynamic Metals property was developed as individual residential properties from as early as 1911 until as late as 1981. After 1981, AEM understands that the Dynamic Metals Site was used to park truck trailers and to store scrap metal in recycling bins. Aramark purchased the Site in 2002; however, the Site use remained idle and no operations have been conducted on the Site.

Between 1992 and 2001, sixteen soil borings were completed on the Site (see Figure 3). Eight of those soil borings were converted to monitoring wells (MW-104 through MW-111). A total of thirty-two soil samples were collected from the sixteen soil borings. Vinyl chloride was the only volatile organic compound (VOC) detected in soil above Type I Risk Reduction Standards (RRSs) at soil boring BH-2 (see Table 1). However, based on further evaluation it was determined that this soil sample was actually collected well below the water table and thus is not considered a true soil sample. Type I RRSs for soil and groundwater are presented in Table 2.

The Type I RRS for soils were calculated in accordance with HSRA Rule 391-3-19-.07(6)(c) and are presented in the revised Voluntary Remediation Program Application (dated July 25, 2011) and the voluntary Remediation Program Work Plan (VIRP) that was approved by Georgia EPD on November 20, 2012. Thus, Aramark certifies that the Site is in compliance with RRS per Rule 391-3-19-.07.

Monitoring wells MW-104 through MW-111, MW-210 and MW-211, and MW-402 and MW-403 are currently located on the Site (see Figure 2). Historical assessments have identified the presence of chlorinated and aromatic (petroleum) VOCs in groundwater at monitoring wells MW-108 and chlorinated VOCs in groundwater at monitoring wells MW-109 and MW-403. Currently monitoring wells MW-104, -105, -106, -107, and -108 are located underneath the soil pile on the Site and have not been sampled since 2006. Based on the January 2014 groundwater sampling event, only cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride exceed Type 1 RRSs in groundwater (see Table 3). Based on a review of historical groundwater analytical results, concentrations of chlorinated VOCs in groundwater are declining.

Although cis-1,2-DCE and vinyl chloride have recently been detected in groundwater above Type 1 RRSs at one monitoring well (MW-403) on the Former Dynamic Metals site, the

concentrations exhibit a decreasing trend. Additionally, these VOCs are degradation products of tetrachloroethene (PCE) and trichloroethene (TCE), source material associated with the adjacent Former Aratex site (690 DeKalb Avenue parcel). Thus, the groundwater impacts at the Former Dynamic Metals Site are not a result of historical releases at the subject parcel.

Reported releases to groundwater in January 2014 did not exceed HSRA Reportable Quantity per the Reportable Quantity Screening Method (RQSM). In accordance with §12-8-107(g)(2) of the VIRP, corrective action for groundwater is not required, nor is certification of compliance required for groundwater.

This *Compliance Status Report (CSR) and Compliance Status Certification* presents historical data collected and includes water table elevation contour maps, soil analytical data summary tables, groundwater analytical data summary tables, and historical time trend charts for select groundwater monitoring wells. The purpose of this *CSR and Compliance Status Certification* is to demonstrate that the soil at the former Dynamic Metals Site is below the Type 1 RRSs for VOCs and to request that the site be removed from the HSI.

## **SECTION 1.0 INTRODUCTION**

Aramark Uniform & Career Apparel, LLC (Aramark) retained Atlanta Environmental Management, Inc. (AEM) to prepare a Compliance Status Report (CSR) and Compliance Status Certification documenting soil and groundwater assessment activities at the former Dynamic Metals parcel of the Aramark DeKalb Hazardous Site Inventory (HSI)/Voluntary Remediation Program Site No. 10704 (HSI Site). A facility location map is provided as Figure 1. The former Dynamic Metals parcel (the Site) is one of two separate property parcels that compose the Aramark DeKalb Avenue HSI Site. The former Dynamic Metals parcel is located at 690 DeKalb Avenue (see Figure 2). The second parcel (former Aratex site) is located at 670 DeKalb Avenue. The necessity and requirements for a CSR are outlined in Hazardous Site Response Act (HSRA) Rule 391-3-19-.06 (Georgia DNR, 2003).

Historically both parcels of the HSI site were treated as a single unit and previous investigations and CSRs included both parcels. This CSR addresses the former Dynamic Metals parcel ("Site) separately from the former Aratex parcel, in an effort to show that the Site is in compliance with the Georgia Environmental Protection Division (EPD) HSRA Rules and therefore will be removed from the HSI.

The initial CSR for the entire HSI Site (670 & 690 DeKalb Avenue parcels) was submitted to the Georgia Environmental Protection Division (EPD) on June 13, 2003 (AEM, 2003). EPD subsequently provided comments on the CSR in correspondence to Aramark, which required additional investigation at the HSI site. Further CSR soil and groundwater assessment activities were implemented between 2003 and 2005 and were subsequently included within the revised CSRs submitted by AEM on July 14, 2004, January 7, 2005, and March 15, 2006. A final CSR encompassing both parcels was submitted by MACTEC Engineering and Consulting, Inc. (MACTEC) to Georgia EPD's HSI Program in June 2006 (MACTEC, 2006).

### **1.1 SITE HISTORY**

The Site is located at 690 DeKalb Avenue and occupies an area of approximately 1.245 acres (see Figure 2). A large soil pile is currently situated on the southeast portion of the parcel (see Figure 2). A more detailed site description is provided in Section 3.0.

Since the late 1940s, the adjacent former Aratex parcel was utilized as a commercial uniform laundry cleaning facility. Dry-cleaning operations were conducted at the Aratex parcel for more than 20 years and included the use of chlorinated solvents and mineral spirits. Dry-cleaning operations ceased in 1989. Aratex subsequently closed in 1995.

A release of chlorinated solvents, predominately tetrachloroethene (PCE), to the soil and groundwater at the former Aratex parcel was identified as part of an unrelated underground storage tank (UST) assessment performed between 1990 and 1992. In October 1994, Aramark submitted a release notification to the Georgia Environmental Protection Division (EPD) HSRA



program. In response to the notification, a “no listing” letter was issued from the HSRA program in April 1995. Subsequent environmental site assessments performed at the former Dynamic Metals parcel in 1999 and 2000 provided additional soil and groundwater data from both the 670 and 690 DeKalb Avenue properties. In October 2001, both parcels (670 & 690 DeKalb Avenue) were listed on the HSI as the Aramark DeKalb site.

In July 2011, Aramark submitted a Voluntary Remediation Program Application (dated July 25, 2011) and the voluntary Remediation Program Work Plan (VIRP) to enter both parcels into the Georgia EPD VRP Program. The VRP Application and VIRP Work Plan were approved by Georgia EPD on November 20, 2012.

No reported releases of chlorinated solvents or petroleum hydrocarbons occurred at the former Dynamic Metals parcel. Likewise, no impacted soil or source area (contaminated soil) was identified at the Site during subsequent investigations performed. Therefore, the most likely source of chlorinated VOC impact to groundwater at the Site appears to be operations conducted at the adjacent former Aratex parcel.

Chlorinated VOC impact to groundwater at the Site has historically been the degradation products of PCE and trichloroethene (TCE), the source material associated with operations conducted at the adjacent Aratex parcel. Although cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride continue to be reported at the Site within groundwater above Type 1 RRSs, as of 2011 the VOC concentrations exhibit a decreasing trend (see Section 6.1). As such, groundwater impacts at the former Dynamic Metals Site are not a result of historical releases at this site but are interpreted as the result of the migration of impacted groundwater from the source area located at the former Aratex property.

Corrective action activities that were performed at the Site, which include *in situ* chemical oxidation injections, are discussed in Section 5.0. Likewise, corrective action efforts implemented at the adjacent former Aratex parcel, which indirectly affect groundwater quality at the site, are also discussed in Section 5.0.

## 1.2 OBJECTIVE

The purpose of this *CSR and Compliance Status Certification* is to demonstrate that the soil at the former Dynamic Metals parcel is below the Type 1 RRSs for VOCs and to request that the site be removed from the HSI. This CSR was compiled on the basis of property conditions that were primarily characterized through a series of investigations and remedial activities performed at the Site by AEM and MACTEC, between April 2001 and January 2014. However, other data collected between 1999 and 2001 are also presented. The data collected include water table elevation contour maps, soil analytical data summary tables, groundwater analytical data summary tables, and historical time trend charts for the select groundwater monitoring wells.

### 1.3 REPORT ORGANIZATION

The report organization is provided in the following bulleted list.

- Section 2 contains a summary of regional and local geology-hydrogeology.
- Section 3 contains a background description of the former facility, historical land use, contaminant source area(s), contaminant of concern, and release history.
- Section 4 contains a description of historical soil analytical results from previous investigations.
- Section 5 contains a description of the groundwater corrective action implemented at the 670 & 690 DeKalb Avenue properties.
- Section 6 contains a description of historical groundwater monitoring results from previous investigations.
- Section 7 contains the summary monitoring well abandonment procedures.
- Section 8 contains the summary and conclusions.
- Section 9 contains the list of references
- Attachment A contains a summary of groundwater elevation data collected between 2001 and 2014.
- Attachment B contains a legal description for the 690 DeKalb Avenue parcel.
- Attachment C contains available soil boring logs.
- Attachment D contains a summary of historical groundwater analytical data collected between 1990 and 2014.
- Attachment E contains the January 2014 Laboratory Analytical Reports.
- Attachment F contains select monitoring well construction logs.
- Attachment G contains time trend charts for contaminants in groundwater at select monitoring wells.
- Attachment H contains the January 2014 field sampling forms.

## **SECTION 2.0**

### **SITE GEOLOGY AND GROUNDWATER FLOW**

#### **2.1 REGIONAL GEOLOGY**

The former Aramark facility is located in the Winder Slope District (WSD) of the Georgia Southern Piedmont Physiographic Province (Clark and Zisa, 1976). The geology of the Southern Piedmont, within the Greater Atlanta Area, consists primarily of Late Proterozoic to Lower Paleozoic interlayered schist, gneiss, and amphibolites that have been intruded by upper Paleozoic (Carboniferous) granite. Numerous dome-shaped granitic mountains, such as Stone Mountain, are located along the narrow, rounded stream divides. The WSD slopes gradually from an elevation of 1,000 feet in the north to 700 feet at the southern edge.

The gently rolling topography of the WSD is dissected by the headwater tributaries of major regional streams. North of the MARTA tracks bordering the subject property, the streams drain toward tributaries of the Chattahoochee River while, south of the MARTA tracks, the streams drain toward tributaries of the South River. As the Chattahoochee River is part of the Gulf of Mexico drainage system and the South River is part of the Atlantic Ocean drainage system, the drainage divide beneath the MARTA tracks is of regional significance.

The topography on the northern portion of the Site slopes down to the south and southwest from an elevation of approximately 1,026 feet along the northern property boundary near Edgewood Avenue toward Gunby Street. The topography on the southern portion of the site slopes down to the west and south from high areas at elevations of approximately 1,020 feet along the eastern property line and DeKalb Avenue toward Gunby Street. Gunby Street in turn drains toward the low, wet area on the adjacent Aratex parcel (670 DeKalb Avenue).

##### **2.1.1 Site Bedrock Geology**

The Site is underlain by metamorphic bedrock of the Late Proterozoic to Middle Ordovician Clarkston Formation (Higgins et al., 2003). In general, the Clarkston Formation (undifferentiated) consists of medium-grained, lustrous, pink- to purple-weathering sillimanite schist with lesser amounts of fine-grained, dark green amphibolite. This formation includes a unit composed only of biotite-muscovite schist (Fairburn Member) and a unit similar to the Clarkston undifferentiated (Tar Creek Member).

##### **2.1.2 Site Residuum Geology**

The residuum, derived from extensive weathering of the underlying parent bedrock, consists of the unconsolidated soil and saprolite. Surficial soil consists primarily of interlayered, red to orange brown, gray, micaceous, sandy silt to silty sand and silty-sandy clay. The saprolite consists of interlayered, orange brown-gray-tan-white-gold, micaceous, sandy silt to silty sand and silty-sandy clay, with trace quartz fragments (gravel). The saprolite contains remnant textural features (mottling/banding), indicative of the parent bedrock. Based on select

soil borings completed to auger refusal, the thickness of the residuum at the combined Aramark DeKalb HSI Site ranges from 75 to 109 feet.

## **2.2 REGIONAL HYDROGEOLOGY**

The metamorphic rocks of the Southern Piedmont are generally not considered good producers of groundwater, except where secondary porosity occurs in the form of fractures, faults, and joints. Groundwater occupies these secondary openings, where present, as well as pore spaces in the overlying mantle of residuum soil and saprolite. Water recharges the subsurface openings in the bedrock by the seepage of precipitation through the residuum, or by flowing directly into openings in bedrock where exposed.

The subsurface bedrock beneath the Site is part of Water-Bearing Unit “A” of Cressler, Thurmond, and Hester (1983). Water-Bearing Unit A is a complex aquifer consisting of interlayered amphibolites, gneiss, and schist in varying proportions and thicknesses. The contact zones between the contrasting rock types have the potential for developing increased permeability and providing groundwater to wells. Wells within the unit may penetrate several permeable contact zones that contribute to the total yield. For the Greater Atlanta Area, well yields for this water-bearing unit range from 20 to 275 gallons per minute (GPM), averaging 56 GPM.

As is typical for the residuum overburden in the Georgia Piedmont, the water-table surface is generally a subdued image of the land surface, with groundwater within this aquifer flowing from higher to lower topographic relief. The residuum aquifer zone is recharged locally by precipitation that infiltrates through the shallow soil and/or saprolite down to the water table. Groundwater movement within this zone is characterized as porous-type flow. Wells screened within the residuum typically yield less than 1 GPM.

## **2.3 SITE HYDROGEOLOGY**

### **2.3.1 Groundwater Occurrence**

With the exception of MW-214 on 670 DeKalb Avenue, the current monitoring well network at the HSI Site was completed in the shallow residuum. Monitoring well MW-214 was installed in the deep residuum aquifer zone to a depth of approximately 75 feet below land surface. A location map for the current monitoring well network is included as Figure 2. A historic well construction summary table for the wells installed at the HSI Site from 1990 to 2013 is included as Table 4. Groundwater has been encountered within the residual soil and saprolite at depths ranging from less than 5 feet to just over 16 feet. More typically, the water table is encountered between depths of 8 and 12 feet. Historic groundwater elevations are summarized in Attachment A.

The discontinuous clay layers present in the saprolite appear to restrict the vertical migration of water. The areas where fill is present, including the excavated former dry-cleaning area on the adjacent former Aratex parcel (see Section 5.0), respond much more rapidly to

rainfall infiltration than the undisturbed areas. The increased storage capacity of the fill materials, particularly where the fill overlies clay-rich saprolite, affects the local groundwater flow in those areas.

### **2.3.2 Groundwater Flow Direction and Hydraulic Gradient**

A water table elevation contour map for January 6, 2014, from the existing monitoring well network for the entire Aramark DeKalb HSI Site is provided as Figure 4. Groundwater within the shallow residuum at the Site was observed to flow toward Edgewood Avenue and DeKalb Avenue. Near DeKalb Avenue, groundwater flow within the water table aquifer at the DeKalb Site is toward the east-southeast, mimicking the surface topography (see Figure 4).

Groundwater flow within the water table aquifer at the adjacent former Aratex parcel generally migrates from the west toward Gunby Street and the Site. Near the end of Gunby Street, groundwater flows to the north through a trough (see Figure 4). The direction of groundwater flow beyond the northern property boundary is toward the headwaters of Lullwater Creek northeast of the property.

The horizontal hydraulic gradient in the shallow residuum aquifer zone across the entire Aramark HSI Site, for January 6, 2014, ranged from 0.006 to 0.033 ft/ft, averaging 0.024 ft/ft. The vertical gradients, as measured from the well midpoint screen for cluster wells MW-202/MW-208P (0.179 ft/ft), MW-409/MW-409D (0.000 ft/ft), and MW-213/MW-214 (0.014 ft/ft), were generally downward on January 6, 2014. The highest vertical gradient (0.179 ft/ft) was measured between residuum well MW-202 and adjacent shallow well MW-208P, which was installed within the surficial fill material. Well cluster MW-213/MW-214 was installed in 2013 to replace abandoned well cluster MW-103/MW-103D. Both well sets were installed within the shallow and deep water-bearing zones of the surficial aquifer. Downward hydraulic gradients, ranging from 0.008 to 0.038 ft/ft, were also measured from former well cluster MW103/MW-103D between April 2003 and July 2004 (MACTEC, 2006).

### **2.3.3 Hydraulic Conductivity**

A rising head slug test was performed in May 1991 (DePaul, 1991) for former monitoring well MW-2, located near the Edgewood Avenue Bridge on the former Aratex parcel. MW-2 was screened below any surficial fill material, within the residuum to a depth of 26 feet below land surface. Hydraulic conductivity of  $1.1 \times 10^{-4}$  centimeter per second (cm/sec) or 0.32 foot/day was calculated for the residuum aquifer zone well. This hydraulic conductivity is within the typical range for silty sands.



#### 2.3.4 Groundwater Flow Rate

The seepage velocity ( $v_s$ ) of a conservative, unretarded contaminant in a homogeneous aquifer is calculated as follows:

$$v_s = - \frac{Kdh}{n_e dl} \quad \text{where:}$$

$v_s$  = seepage velocity,

$K$  = hydraulic conductivity (distance/time),

$dh/dl$  = hydraulic gradient (dimensionless), and

$n_e$  = effective porosity (dimensionless).

A seepage velocity of approximately 0.03 foot/day was calculated using the average hydraulic gradient (0.024 ft/ft) observed in the shallow residuum water table aquifer on January 6, 2014, the hydraulic conductivity value of  $1.1 \times 10^{-4}$  cm/sec (0.32 ft/day) calculated from the slug test conducted on well MW-2 (DePaul, 1991), and an assumed effective porosity of 30 percent (0.30) for a silty sand. Seepage velocity represents the rate of groundwater movement along sinuous flow paths through pore spaces around the clay, silt, and sand grains within an aquifer. Seepage velocity overestimates the actual lateral flow velocity from one point to another because the flow paths are sinuous. Thus, in practice, VOCs are typically less mobile than would be expected from estimates of seepage velocity, because of the sinuosity of groundwater flow paths, because of VOC adsorption to clays (retardation), and because of VOC degradation processes.

## **SECTION 3.0**

### **SITE BACKGROUND AND SOURCE AREA DESCRIPTION**

#### **3.1 SITE DESCRIPTION**

The Site is located at 690 DeKalb Avenue on approximately 1.245 acres in a mixed industrial/commercial/residential setting within the Atlanta city limits in Fulton County, Georgia (see Figure 1). A large stock-pile of soil, dated back to 2005, is currently situated on the southeast portion of the parcel (see Figure 2).

The Site coordinates are latitude 33° 45' 44" north and longitude 84° 21' 53" west as estimated from the North Atlanta 7.5-minute topographic map (dated 1997). Excluding the soil stock-pile, the topography elevation across the Site ranges from 1,015 feet near the northeast corner of the site to 1,010 feet near the end of Gunby Street. Consequently, surface water run-off from the site is toward Gunby Street. Current Site topographic elevations, including the soil stockpile, are depicted in Figure 3.

#### **3.2 RESPONSIBLE PARTIES**

Aramark Uniform & Career Apparel, Inc., is the current owner of the 690 DeKalb Avenue parcel of the HSI Site, which, as defined by HSRA, consists of the 670 & 690 DeKalb Avenue parcels. The owner's address and site contact is presented below. Attachment B contains the legal description regarding the Site.

##### **HSRA Site Contact**

###### **Mailing Address**

Mr. Doug Helmstetler  
Manager, Environmental Health & Safety  
Aramark Uniform & Career Apparel, LLC  
115 North First Street  
Burbank, California 91502  
tel. (818) 973-3772

#### **3.3 LAND USE AND OPERATIONS HISTORY**

The Site is located west of the intersection of DeKalb Avenue and Krog Street (see Figure 1). Gunby Street lies to the immediate west of the Site. Farther west is the former Aratex Services parcel located at 670 DeKalb Avenue. North of the Site is a residential development (Skyline at Edgewood). Residential and commercial properties are located west of the Site. DeKalb Avenue is located south of the Site, followed by railroad and the Metropolitan Atlanta Rapid Transit Authority. Current access to the Site is via Gunby Street.

Sanborn Maps indicate that the former Dynamic Metals property was developed as individual residential properties from as early as 1911 until as late as 1986. Historical information, including aerial photography, indicates that the Site was previously used, as

recently as April 2000, to park truck trailers and to store scrap metal in recycling bins. As of 2002, no vehicles or recycling bins were evident on site. Aramark purchased the Site in 2002; however, the Site use remained idle and no operations have been conducted on the Site.

### **3.4 SITE-SPECIFIC CHEMICALS OF INTEREST**

Site-specific chemicals of interest (COI) are chlorinated volatile organics and to a lesser degree petroleum aromatic volatile organics that were identified during the initial environmental assessments performed between 1992 and 2001 (see Sections 4.1 to 4.4). The primary COIs are PCE, along with its daughter byproducts TCE, cis-1,2-DCE, trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride. (see Table 1). Trace levels of petroleum hydrocarbons, related to the UST release from the adjacent former Aratex parcel, have also been reported within soil and groundwater at the Site but at concentrations well below their respective Type I RRSs. Type 1 RRSs for soil COIs are presented in Table 2.

Of the list of aromatic and chlorinated VOCs detected in soil samples collected from the Site (see Table 1), only vinyl chloride was detected above Type I RRSs. However, these elevated detections were obtained from a single soil sample (BH-2), which was collected well below the water table.

Historically, groundwater COIs consisted of benzene, PCE, TCE, 1,1-dichloroethene (1,1-DCE), cis-1,2-DCE and vinyl chloride that exceeded their respective Type I RRSs. Type 1 RRSs for groundwater COIs are presented in Table 2. As of January 2014, only cis-1,2-DCE and vinyl chloride have been detected in groundwater at one monitoring well (MW-403) at the Site. Concentrations of these COIs exceeded their respective Type I RRSs (see Table 3).

### **3.5 POTENTIAL SOURCES**

As discussed earlier, no historical releases of chlorinated solvents and/or petroleum hydrocarbons (from the UST release) have been reported at the former Dynamic Metals parcel. Likewise, no impacted source area (contaminated soil) was identified at the Site during all subsequent investigations. Consequently, groundwater impacts at the Site are attributed to historical releases from the former Aratex parcel and the subsequent migration of impacted groundwater from the source area(s) to the Site. COI concentrations in groundwater have decreased over time and all constituents except vinyl chloride are now below their respective Type 1 RRSs (see Table 3).

The potential source areas identified at the former Aratex parcel, which may have impacted groundwater quality at the adjacent Dynamic Metals parcel, include the former mineral spirits UST, the former dry-cleaning area, and the impacted soil at the far northwest corner of the former Aratex parcel (see Potential Source Areas on Figure 2). The following sections provide a brief overview of potential off-site source areas.

### 3.5.1 Underground Storage Tanks

In 1989, two mineral spirits USTs were abandoned in place while one gasoline UST and one diesel UST were removed by Farlow Environmental Engineers, Inc. (Farlow). The approximate UST locations on the former Aratex parcel are depicted in Figure 2. The two mineral spirits USTs were located beneath the former Aratex building within the dry-cleaning operations area while the fuel USTs were located north of the building. A fifth UST, unearthed during the subsequent soil excavation activities performed by MACTEC in 2006, was located beneath the former building within the dry-cleaning area (MACTEC, 2006). Subsequent testing of this tank's contents indicates that this tank likely stored PCE (see Section 2.5.2).

During the 1989 tank closure activities, a release from the mineral spirits USTs was identified and was subsequently reported to Georgia EPD Underground Storage Tank Management Program (USTMP) (Farlow, 1989). No releases were reported from the gasoline or diesel UST locations. The aromatic compounds identified in the soils at the site include benzene, toluene, ethylbenzene, xylenes, isopropylbenzene, naphthalene, n-butylbenzene, sec-butylbenzene, cyclohexane, methylcyclohexane, p-isopropyltoluene, n-propylbenzene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene.

The results of subsequent contaminant assessments of the UST release were provided in the *Site Characterization Contaminant Assessment Progress Report* (DePaul, 1990), the *Contaminant Assessment Phase II Progress Report* (DePaul, 1991), and the *Contaminant Assessment Phase II Task-2 Progress Reports* (DePaul, 1992). Per Georgia EPD's request (dated December 17, 1991), a *Corrective Action Plan-Soil Vapor Extraction Remediation Plan* (DePaul, 1993) was submitted to USTMP. As part of this plan, a soil vapor extraction (SVE) system was installed in July 1993 and operated for a short time. On September 3, 2006, USTMP issued a "no further action" (NFA) letter for the UST release at the Aratex facility (Facility ID: 0600608).

### 3.5.2 Dry-Cleaning Operations Area

Dry-cleaning operations were reportedly conducted within the southwest corner of the former Aratex building (see Figure 2) for a period of more than 20 years. A release of chlorinated solvents (predominately PCE) and mineral spirits to the soil and groundwater beneath the former Aratex building site was identified during the UST assessment performed between 1990 and 1992 (see Section 2.5.1). As a result of this release, the Aramark DeKalb site was listed on the HSI in October 2001. The chlorinated organic compounds identified in the soils at the former dry-cleaning area include PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1-dichloroethene (1,1-DCE), vinyl chloride, and 1,1,1-trichloroethane (1,1,1-TCA).

### 3.5.3 Northwest Property Corner

No historical facility operations were reported at the northwest corner of the former Aratex parcel, which parallels the former Norfolk Southern railroad line (current Atlanta Beltline) and abuts the city of Atlanta right-of-way for Edgewood Avenue (see Figure 2). Likewise, no

virgin or waste chemicals were reportedly stored at this location. Historical aerial photographs depict a small structure (shed) at this location; however, with the exception of a concrete pad, nothing currently remains of this shed.

Delineation of the lateral and vertical extent of impacted soil and fill material at this source area, to Type 1 RRSs, was completed by AEM in 2013 (AEM, 2013). The chlorinated VOCs identified in the soil near the northern property boundary include PCE and its degradation products TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1-DCE, and vinyl chloride. PCE concentrations ranging up to 45,000 µg/kg were detected from soil boring GP-9D, located near the northwest corner of the property. However, only low levels of PCE (up to 26 µg/L) were reported from a groundwater sample collected from this source area. Consequently, based on its location (hydrologically downgradient of the 690 DeKalb Avenue property) and the groundwater contaminate detected, the Northwest Property Corner is not a probable source for the VOC groundwater plume detected at the adjacent former Dynamic Metals property.

### **3.6 POTENTIAL RELEASE MECHANISMS**

The actual quantity, time-line, and virgin chemical composition of releases associated with any potential source areas at the former Aratex facility are not known. It is estimated that the release of chlorinated solvents and Stoddard solvents (mineral spirits) occurred between the 1950s and 1989, although the mineral spirit USTs were last used in 1985.

The release(s) of the mineral spirits, beneath the former building, were the probable result of the leaking USTs or underground tank lines. Additionally, smaller amounts of Stoddard solvents may also have spilled during facility operations. Likewise, the release(s) of PCE may have derived from a leaking tank or tank lines (see Section 3.5.1) or during the dry-cleaning operations.

### **3.7 HUMAN AND ENVIRONMENTAL RECEPTORS**

No reported releases of chlorinated solvents or petroleum hydrocarbons occurred at the former Dynamic Metals parcel. Likewise, no impacted soil or source area (contaminated soil) was identified at the Site during subsequent investigations performed (see Section 4.0). Thus, no apparent exposure risks to humans were identified.

No water supply wells have been identified within a two-mile radius of the Site. Thus, no human exposure is suspected. As documented in this report, VOC and hydrocarbon contaminants of concern were released at the adjacent Aratex tract and not the subject site.

Likewise, no surface water discharges to the Site, and therefore no human or environmental receptors exist due to surface water exposure. Exposure to impacted storm water run-off is also unlikely as no impacted soils were identified on site (see Section 4.0).

Vinyl chloride is the predominant VOC detected in groundwater at monitoring well MW-403. MW-403 is located on the northwest portion of the former Dynamic Metals parcel and immediately upgradient of the residential housing complex. Historically, vinyl chloride



concentrations ranged from nondetect to 1,600 µg/L between 2006 and 2010. Since 2010, concentrations of vinyl chloride have declined from 1,600 µg/L to 80 µg/L.

As part of the *First Semiannual VRP Progress Report*, dated May 2, 2013, a vapor intrusion analysis was conducted to assess the potential for vapor intrusion from VOCs in groundwater (AEM, 2013) for the former Dynamic Metal parcel as well as the downgradient adjacent residential housing complex. An evaluation of the site conditions (i.e., geology, depth to groundwater) and vinyl chloride concentrations, as of October 2012, using the J&E Model indicated that concentrations less than 736 µg/L would not pose a vapor intrusion risk to the adjacent residence.

### **3.8 RISK REDUCTION STANDARDS**

The Type I RRS calculated for soils (see Table 2) are provided in the Voluntary Remediation Program Application (AEM, 2011, revised). The only constituents that exceeded Type I RRS in soil at the former 670 parcel are PCE, TCE, and benzene (AEM, 2011, revised). No contaminants were identified in soils at the former Dynamic Metals parcel.

Type I RRS for the contaminants of concern in groundwater are depicted in Attachment D and mimic U.S. EPA Region 4 maximum contaminant levels (MCLs) for drinking water quality. Type I RRS exceedences are discussed in Section 6.0.

## **SECTION 4.0**

### **SOIL ANALYTICAL RESULTS**

A number of environmental assessments have been performed at the former Dynamic Metals parcel, as part of a larger soil and groundwater study conducted for the overall Aramark DeKalb HSI Site. These include site contaminate characterization events performed by DePaul & Associates (DePaul) in 1992, Phase I/Phase II Environmental Site Assessments (ESA) conducted in 1999 and 2000 by QORE Property Sciences (QORE), Phase II environmental testing by Pickering Environmental Consultants, Inc. (Pickering) in 2000, and additional soil and groundwater sampling (well installation) performed by Bock Environmental Services, Inc. (Bock) and Law Engineering and Environmental Services, Inc. (LAW) in 2001.

Between 1992 and 2001, sixteen soil borings were drilled, sampled, and subsequently abandoned (see Section 6) on the Site (see Figure 3). From these borings, a total of thirty-two soil samples were collected for VOC analyses (see Table 1). Available lithologic boring logs are provided in Attachment C. A summary of the soil investigations conducted at the Site is provided below.

There is limited information regarding historic soil sampling procedures for each investigation discussed below. However, direct-push technology (DPT) was typically utilized to collect subsurface soil samples. Soil borings were continually sampled using acetate-lined DPT sample spoons for lithologic characterization and/or soil analyses. Historical soil samples may also have been collected using either stainless-steel hand augers or hollow-stem augers with split-spoon samplers.

#### **4.1 1992 DEPAUL INVESTIGATION**

In 1992, DePaul conducted soil and groundwater investigation on the adjacent former Aratex parcel to define the extent of soil and groundwater impacts as a result of a release from former USTs at the Aratex facility (DePaul, 1993). The investigation also required the installation of two soil borings (MW-5 and MW-6) on the adjacent former Dynamic Metals Site (see Figure 3).

DePaul utilized split-spoon sampling methods to collect soil samples to classify and establish the vertical and lateral extent of contamination. Soil borings were advanced to a depth of 25 feet at each location (MW-5 and MW-6) using Geoprobe technology. The technology utilized consisted of advancing a 1½-inch-diameter hollow steel rod at five-foot intervals (DePaul, 1992 and 1993).

A soil sample collected at five feet below land surface (bls) from each boring was analyzed for VOCs. PCE (55 micrograms per kilogram [µg/kg]) and trans-1,2-dichloroethene (trans-1,2-DCE) (164 µg/kg) were detected in the soil sample collected at MW-5. Toluene (300 µg/kg) was the only VOC detected in the soil sample collected from MW-6. None of the concentrations detected in either sample exceeded their respective Type I RRSs (see Table 1).

Following collection of soil samples, these soil borings were converted to monitoring wells MW-5 and MW-6 using hollow-stem auger drilling techniques (DePaul, 1993).

#### **4.2 1999 QORE PHASE I/PHASE II ENVIRONMENTAL SITE ASSESSMENT**

In 1999, on behalf of Arthur Geulding, QORE performed a combined Phase I/II ESA as part of due diligence for a potential property transaction (QORE, 1999). The purpose of the Phase II ESA was to evaluate whether past practices at the adjacent dry-cleaning facility (670 DeKalb Avenue) impacted soils and groundwater at the Site.

The Phase I ESA did not identify past uses of the Site that indicated the use, disposal, or production of hazardous/toxic materials. Additionally, no past industrial or agricultural use of the Site was noted.

To investigate the potential for soil and groundwater impacts from the former Aratex dry-cleaning facility, QORE installed three soil borings (B-1, -2, and -3). The soil borings were advanced using 3.25-inch inside diameter (i.d.) hollow-stem augers producing 6.25-inch i.d. boreholes to depths ranging from 25 feet to 30 feet bls (see Figure 3) (QORE, 1999).

Reportedly, soil samples were collected on five-foot intervals and only one sample from each soil boring was submitted to the laboratory for analysis of VOCs. Either the sample with the greatest photoionization detector (PID) vapor reading or, if no PID reading, the sample nearest the water table was submitted for laboratory analysis. The five-foot interval soil sample from boring B-3 was submitted to the laboratory for analysis because of the positive PID readings. There was no indication in the 1999 report that elevated PID readings were observed at B-1 and B-2, suggesting that these samples were collected nearest the groundwater table. Additionally, one groundwater sample was collected from each boring for laboratory analysis of VOCs (see Section 6.6.1). All borings were backfilled with soil cuttings (QORE, 1999).

TCE, cis-1,2-DCE, vinyl chloride, ethylbenzene, and toluene were detected in the soil samples analyzed from the Site (see Table 1). However, none of these VOCs exceeded their respective Type I RRSs. The same VOCs were previously detected in soil, at significantly higher concentrations, at the former Aratex facility (690 DeKalb Avenue), suggesting that the Aratex facility is the source of contamination at the Site.

#### **4.3 2000 PICKERING PHASE II ENVIRONMENTAL SITE ASSESSMENT**

In 2000, on behalf of Digital Teleport, Inc., Pickering performed a soil and groundwater assessment because of the presence of former off-site adjacent property dry-cleaning and petroleum storage activities at the former Aratex site and the presence of an off-site retail filling station on the north adjacent property (Pickering, 2000).

Pickering installed three soil borings (BH-1, -2, and -3) at the Site, at depths ranging from 25 to 30 feet bls (see Figure 3). Soil samples were collected using a 4-foot-long continuous hollow-stem auger sampler that collected a sample core as the core barrel advanced into the subsurface. Soil samples collected were screened with a PID (Pickering, 2000).

Reportedly, soil samples were collected, for laboratory analyses, at the following depths: 2–4 feet and 22–24 feet bls at BH-1, 22–24 feet bls at BH-2, and 14–16 feet bls at BH-3. The 14–16 feet and 22–24 feet samples were collected below the water table.

In November 2000, PCE, TCE, vinyl chloride, and benzene were detected in the soil sample collected from soil boring BH-2 (see Table 1). However, with the exception of vinyl chloride (at 324 µg/kg), none of the remaining VOCs detected exceeded their respective Type I RRSs. Based on further evaluation of historic reports it was determined that this soil sample was actually collected below the water table and thus is not considered a true soil sample.

#### **4.4 2001 BOCK ENVIRONMENTAL SITE ASSESSMENT**

In 2001, on behalf of Aramark, Bock performed additional soil and groundwater (well installation) assessment activities at both the Site and the adjacent former Aratex parcel (unpublished documentation). During the April 2001 well installation event (see Section 6.1.1), split-spoon samples were collected (split) by Bock and Law (Law, 2001) from three augered boreholes (MW-101, -102, and -103) completed at the former Aratex parcel (see Figure 2). In August 2001, Bock completed eight additional augered boreholes (MW-104 through MW-111) at the former Dynamic Metals parcel (see Figure 3). Following collection of soil samples, the eight soil borings were converted to permanent monitoring wells (see Section 6.1.1).

Three VOC soil samples were collected at varying intervals (between 0 and 16 feet bls) from each of the eight soil borehole locations (see Table 1). No VOCs were reported within soil at any of the eight locations.

## SECTION 5.0 CORRECTIVE ACTION

Both soil and groundwater corrective action has been implemented at the Aramark DeKalb Avenue HSI Site. In 2005, Brisbane II, LLC (as directed by MACTEC) completed the initial shallow source area soil excavation at the 670 DeKalb Avenue property (MACTEC, 2006). Subsequent remedial activities performed by AEM included *in situ* chemical oxidation injections on both parcels (June 2006 and February 2007) and soil blending and additional soil excavation on the former Aratex parcel (September to October 2010). Corrective action efforts implemented at both the 670 and 690 DeKalb Avenue properties are discussed below.

### 5.1 *IN SITU* CHEMICAL OXIDANT INJECTIONS

An initial *in situ* chemical oxidation injection pilot test was performed at the 670 DeKalb Avenue property in September 2005. The field test methods and results of this study are documented in the 2005 *Groundwater Monitoring and Pilot Test Report* (AEM, 2005b). Sodium permanganate was injected into the impacted residuum water table using temporary direct-push technology (DPT) injection points. The study area, near former monitoring wells MW-101 and MW-102, represented a 30-foot by 40-foot grid containing several sumps and drains that were the apparent source of previous releases of chlorinated solvents to the groundwater. Three temporary monitoring wells were installed hydraulically upgradient (TW-1) sidegradient (TW-2), and downgradient (TW-3) of the pilot test injection area (see Figure 5). The results of this study indicated that those monitoring wells influenced by the oxidant injection (MW-101, MW-102, TW-2, and TW-3) exhibited significant decreases (down to non-detectable levels) in VOC concentrations.

An *Underground Injection Control Permit Application for In Situ Chemical Oxidation*, dated October 21, 2005, was submitted to Georgia EPD on October 25, 2005 (AEM, 2005a). An Underground Injection Control (UIC) Permit (UIC Permit No. 275), provided by the Georgia Geological Survey, was received in June 2006.

Full-scale implementation of the *in situ* chemical oxidation injection program was performed in June 2006 at the Aramark DeKalb Avenue HSI Site. The field methods implemented are discussed in the *Corrective Action Plan (CAP) Supplement* (AEM, 2006) and the *Semiannual Groundwater Monitoring Report* dated February 7, 2007 (AEM, 2007). Sodium permanganate was injected into the impacted residuum water table aquifer to break down the PCE and associated daughter products. The permanent sodium permanganate DPT injection points are depicted in Figure 6. The remedial activities were performed at two areas: (1) the vicinity of monitoring wells MW-301, -302, and -303 (670 DeKalb Avenue) and (2) the area encompassing monitoring wells MW-109, -207, and -403 (690 DeKalb Avenue). As a result of VOC rebound at former monitoring well MW-301, additional sodium permanganate injections were performed in February 2007.



## 5.2 SOIL BLENDING WITH CHEMICAL OXIDANT

A revised *Underground Injection Control Permit Application for In Situ Chemical Oxidation (UIC Permit No. 275)* was submitted to Georgia EPD on April 6, 2010 (AEM, 2010b). As part of this application, saturated soil blending with potassium permanganate was proposed for the chlorinated VOC source area at the former Aratex parcel. As chlorinated VOCs were detected within the soils beneath the water table, soil mixing was extended below the shallow water table.

Remediation of source area soil above and beneath the water table under the former building on the former Aratex parcel and the adjacent Gunby Street right-of-way (see Figure 7) was completed in October 2010. This work was performed in accordance with the *Notification of Change—Corrective Action Plan (CAP)* submitted to the Georgia Environmental Protection Division (EPD), dated August 8, 2006.

The PCE target cleanup goal for unsaturated soil was 500 µg/kg. This value was the EPD-approved soil PCE RRS for the Aramark DeKalb HSI Site. This RRS did not apply to the soil under the water table (saturated soil) as the contamination is in direct contact with the groundwater. However, a PCE concentration of 100 µg/kg was selected as the target concentration for soil in the saturated zone. This value was expected to be technologically achievable and would mitigate future groundwater impacts.

From September 4 to September 8, 2010, 1,365 tons of PCE-contaminated shallow soil (PCE > 500 µg/kg), located adjacent to Gunby Street and outside the right-of-way, was excavated to an approximate depth of 10 feet bls, profiled, and disposed off site. An additional 762 tons of PCE-impacted soil was excavated between October 12 and October 19, 2010. The contaminated non-hazardous soils were removed from the site and were disposed as non-hazardous special waste at the Republic Services Pine Ridge Landfill in Griffin, Georgia. Sidewall verification sampling indicated that all contaminated soil beneath the former Aratex parcel as well as the adjacent Gunby Street right-of-way was removed to HSRA site-specific standards.

Potassium permanganate and tap water were blended with the soil to a depth of 14 to 21 feet below land surface. For the blended soils beneath Gunby Street, the soil was solidified with Portland cement. Test results of the blended soil below Gunby Street indicate that PCE was treated to concentrations below detection limits. In areas of previous soil excavation and backfill (by Brisbane II, LLC), source material below the water table containing up to 64,000 µg/kg PCE was treated to levels below 500 µg/kg.

Deep soil above the 500 µg/kg PCE criteria and outside the soil blending area was identified and removed until confirmatory sampling indicated that sub-500 µg/kg PCE margins were achieved.

## **SECTION 6.0**

### **GROUNDWATER MONITORING**

The earliest groundwater samples were collected from the former Aratex parcel (670 DeKalb Avenue) in August 1990 (DePaul, 1990). Tabulated historical groundwater analytical results for 1990 through 2014 are summarized in Attachment D. The analytical data sheets for the most recent groundwater monitoring event (January 2014) are provided as Attachment E and are discussed in Section 6.2.

As of 1990, numerous monitoring wells have been installed, sampled, and subsequently abandoned at the Aramark DeKalb Avenue HSI Site. Available monitoring well construction—lithologic logs are provided in Attachment C. A list of all groundwater sample points (temporary and permanent monitoring wells) installed at the HSI Site (including well installation dates, abandonment dates, and construction specifications) is summarized in Table 4.

#### **6.1 HISTORICAL GROUNDWATER MONITORING**

##### **6.1.1 Pre-Corrective Action Monitoring**

The initial residuum groundwater monitoring wells (MW-1 to MW-9), installed and sampled between 1990 and 1994 (DePaul, 1990, 1991, 1994), confirmed the release of chlorinated solvents and aromatic hydrocarbons at the former Aratex parcel (see Figure 2). The VOCs PCE, TCE, trans-1,2-DCE, vinyl chloride, benzene, and/or toluene were detected in one or more of the wells (MW-1, -2, -3, -4, -7, and -8) installed at the former Aratex parcel, at concentrations that exceeded the Type 1 RRS (see Attachment D). In December 1994, PCE concentrations ranging up to 47,000 µg/L were reported in well MW-4, where dry-cleaning solvents were formerly utilized and stored, confirming a source area at the former Aratex parcel.

At the former Dynamic Metals Site, PCE, trans-1,2-DCE, vinyl chloride, and toluene were detected in the initial groundwater samples collected from MW-5 and MW-6; however, only PCE, trans-1,2-DCE, and vinyl chloride exceeded the Type 1 RRS. Concentrations of PCE in groundwater were significantly lower at the Site compared to the former Aratex parcel (see Attachment D).

In response to a release notification to the Georgia EPD HSRA program, in 1994, a “no listing” letter was issued from the HSRA program in April 1995. As a result, no further groundwater monitoring activities were performed until 1999. Subsequent investigations performed at the Site in 1999 and 2000 facilitated the collection of additional groundwater samples from both the former Aratex parcel and the Site.

In September 1999, QORE collected groundwater samples from three soil borings (B-1, -2, and -3) completed at the Site at depths ranging from 25 feet to 30 feet bls (see Figure 3). Benzene, chlorobenzene, chloroethane, 1,1-dichloroethene (1,1-DCE), cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, toluene, and vinyl chloride were detected in one or more of the

groundwater samples (QORE, 1999). Only benzene, PCE, TCE, 1,1-DCE, cis-1,2-DCE, and vinyl chloride exceeded their respective Type 1 RRSs (see Table D-2 of Attachment D).

In 2001, the next phase of temporary and permanent monitoring wells were installed and sampled at the Aramark DeKalb HSI Site. Shallow residuum temporary wells DP-1 through DP-7 were installed and sampled in April 2001 by Law (Law, 2001) (see Table D-4 of Attachment D). Split-samples from this sampling effort were collected by Bock (Bock, 2001). In April 2001, three additional residuum wells (MW-101, -102, and -103) were also installed by Law on the former Aratex parcel (Law, 2001) (see Table D-6 of Attachment D). In August 2001, a further eight residuum wells (MW-104 to MW-111) were constructed by Bock (Bock, 2001) on the Site (see Figure 3 and Table D-6 of Attachment D).

The subsequent results of the 2001 sampling effort confirmed that a release had occurred on the former Aratex parcel. PCE concentrations in groundwater ranged up to 8,500 µg/L in temporary well DP-104 (completed just south of MW-4) and up to 14,000 µg/L in monitoring well MW-103 (completed just north of MW-4) (see Table D-6 of Attachment D). As in the past, significantly lower concentrations of the chlorinated solvents TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride were reported in the wells completed at the former Dynamic Metals Site. Based on these reported findings, both the 670 and 690 DeKalb Avenue parcels were listed on the HSI (HSI Site No. 10704) in October 2001.

From April 2003 to April 2006, eight additional residuum monitoring wells (MW-201 to MW-208) were installed by AEM (AEM, 2003) while three shallow residuum piezometers (MW-207P, -208P, and -209P) were installed by MACTEC at the Aramark facility (see Figure 8). With the exception of MW-204, -207, and -209P, the remaining wells were installed on the former Aratex parcel. MW-204 was installed in Gunby Street while MW-207 and MW-209P were installed on the former Aratex parcel. One deeper residuum monitoring well (MW-103D) was also completed by AEM on the former Aratex parcel for vertical plume delineation (see Figure 8).

With the exception of wells MW-109, -207, and -209P, no VOCs were detected (from April 2003 to April 2006) within the wells completed on the Site (see Tables D-7 and D-8 of Attachment D). These three wells are located northeast (downgradient) of the known source area on the former Aratex parcel (see Figure 8). Little or no PCE was reported within these wells. The predominant VOC constituents detected in groundwater at the Site included one or more of the following PCE break-down products: TCE (up to 247 µg/L in MW-207), cis-1,2-DCE (up to 1,200 µg/L in MW-109), trans-1,2-DCE (up to 540 µg/L in MW-207), and vinyl chloride (up to 900 µg/L in MW-109). Thus, no apparent PCE source area was identified at the Site.

Between April 2003 and April 2006, PCE concentrations in groundwater at monitoring wells MW-101, -102, and -103 ranged from 1,680 to 35,000 µg/L, from 850 to 8,400 µg/L, and from 6,700 to 16,200 µg/L, respectively (see Table D-6 of Attachment D). Likewise, TCE concentrations from these wells ranged up to 201 µg/L, 26 µg/L, and 1,500 µg/L, respectively. Cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride concentrations were also significantly higher in MW-103. Notably lower VOC concentrations were detected in monitoring wells MW-201

through MW-209 as well as piezometers MW-207P, -208P, and -209P (see Table D-8 of Attachment D). When detected, only low levels of VOCs were reported within residuum wells MW-207P, MW-208P, and MW-201 through MW-205 installed along the perimeter of the former Aratex parcel. Slightly higher VOC concentrations were reported in the wells (MW-206, -207, and -208) constructed closer to the PCE source area.

No VOCs were detected within the deep residuum well MW-103D between April 2003 and April 2006. Thus, the vertical extent of the VOC plume at the PCE source area was defined by MW-103D (see Table D-6 of Attachment D).

In April 2006, the groundwater monitoring well network for the Aramark DeKalb Avenue HSI Site was expanded with the installation of 10 additional residuum wells. Monitoring wells MW-301, -302, -303, and -306 were installed by AEM on the former Aratex parcel to replace abandoned wells MW-101, -102 and -103 (see Section 7). The remaining six monitoring wells (MW-401 through MW-406) were installed by MACTEC (MACTEC, 2006). Monitoring wells MW-402 and MW-403 were completed near the northern edge of the Site while monitoring well MW-404 was constructed along the Gunby Street right-of-way adjacent to the Site (see Figure 8). MW-401 and MW-405 were installed as upgradient monitoring wells on the former Aratex parcel (see Figure 8).

In April 2006, groundwater at monitoring wells MW-301, -302, and -303, installed in the vicinity of the PCE source area, contained PCE concentrations of less than 5 µg/L, 31 µg/L, and 4,530 µg/L, respectively (see Table D-10 of Attachment D). For comparison, July 2005 PCE concentrations in groundwater at monitoring wells MW-101 (replaced by MW-301) and MW-102 (replaced by MW-302) were 25,100 µg/L and 1,140 µg/L, respectively. The notable reduction in PCE concentrations, as well its daughter products, observed in groundwater at MW-301 and MW-302 is attributed to the September 2005 *in situ* chemical oxidation injection pilot test (see Section 5.1) performed near the former location of monitoring wells MW-101 and MW-102 ( see Figure 8).

Monitoring wells MW-401 through MW-405 were also sampled in April 2006 (see Table D-11 of Attachment D). With the exception of MW-403, no VOCs were detected in these wells. MW-402, located at the northwest corner of the Site, contained no PCE or TCE. As with monitoring wells MW-109, -207, and -209P, located at the Site, the predominant VOC constituents detected in MW-403 included the PCE break-down products cis-1,2-DCE (at 2,600 µg/L), trans-1,2-DCE (at 14 µg/L), and vinyl chloride (at 1,500 µg/L). These findings again suggest that no apparent VOC source area existed at the Site, as no PCE was detected.

### 6.1.2 Post-Corrective Action Monitoring

In accordance with the Corrective Action Plan (CAP) Supplement (AEM, 2006), quarterly groundwater monitoring was proposed for the following 14 monitoring wells:

- **670 DeKalb Avenue wells:** MW-202, -203, -205, -206, -208, -301, -302, -303, and -306
- **Gunby Street well:** MW-204
- **690 DeKalb Avenue wells:** MW-108, -109, -207, and -403

Per the CAP, the monitoring wells were sampled for VOCs as well as for select monitored natural attenuation parameters (MNAs). In addition, the UIC Permit required monitoring for potential by-products such as dissolved-phase metals and chloride, to demonstrate restoration of natural background conditions.

As the result of the stockpiling of clean soil at the Site, monitoring well MW-108 could not be accessed from June 2006 to the present. Likewise, the stockpiling of clean soil atop MW-203 (at the former Aratex parcel) prevented the sampling of this well in 2012 and 2013. MW-208 was abandoned in 2010 prior to the soil mixing event, and MW-205, last sampled in October 2012, was damaged during the Atlanta Beltline construction activities and was subsequently abandoned in 2013. In addition to the above 14 wells listed in the CAP, MW-110, -207P, and -209/209P were also sampled quarterly, whereas wells MW-111, -402, -404, and -405 were periodically sampled as part of one or more of the quarterly monitoring events.

In April 2007, MACTEC installed an additional five residuum wells (MW-406, -407, -408, -409, and -409D) on the former Aratex parcel (see Figure 8). With the exception of MW-409D, the new wells were screened across the water (see Table 4). MW-409D was screened below the water table to a depth of 30 feet below ground surface. These five monitoring wells were subsequently sampled as part of the December 2007, March 2008, June 2008, and September 2008 quarterly monitoring events and the December 2009 annual event. MW-409 and MW-409D were also sampled as part of the June 2011, July 2012, and January 2014 monitoring events (see Table D-11 of Attachment D). Wells MW-406, -407, and -408 were abandoned in 2010 (see Table 4 and Section 7).

Quarterly groundwater monitoring at the former Aramark facility was performed in August 2006, November 2006, February 2007, May/June 2007, September 2007, December 2007, March 2008, June 2008, and September 2008. Following the completion of the quarterly monitoring program, additional annual groundwater sampling was performed in December 2009, June 2011, October 2012, July 2013, and most recently in January 2014 (see Section 6.2).

For a period of approximately two years following the June 2006 *in situ* chemical oxidation injection at the Site, concentrations of VOCs in groundwater (predominately cis-1,2-DCE and vinyl chloride) significantly decreased at monitoring wells MW-109, -207, and -403 (see Tables D-7, D-8, and D-11 of Attachment D).



Likewise, when sampled, only random trace levels of VOCs were detected in groundwater at monitoring wells MW-110, -209/209P, -402, and -404. Time trend graphs depicting cis-1,2-DCE and vinyl chloride concentrations for monitoring wells MW-109 and MW-403 are provided in Attachment F.

A temporary rebound in VOC levels (predominately cis-1,2-DCE and vinyl chloride) was detected in groundwater at monitoring wells MW-109 and MW-403 from June 2008 through June 2011 and in groundwater at monitoring well MW-207 in December 2009. However, since June 2011 (following the implementation of the soil blending corrective action at the solvent source area on the former Aratex parcel) VOC concentrations have again shown a significant downward trend in groundwater at monitoring wells MW-109 and MW-403 from October 2012 to January 2014 (see Attachment F). VOCs were not detected in groundwater at monitoring well MW-109 during the July 2013 and January 2014 sampling events (see Table D-7 of Attachment D). Additionally, concentrations of cis-1,2-DCE in groundwater at monitoring well MW-403 have decreased to below the Type 1 RRS and, although vinyl chloride exceeds the Type 1 RRS, concentrations detected continue to exhibit a decreasing trend (see Table D-11 of Attachment D and Attachment F). With the remediation of the upgradient source material at the former Aratex parcel, to a depth well below the water table, decreasing VOC concentrations are anticipated to continue in groundwater at monitoring well MW-403.

Following the June 2006 *in situ* chemical oxidation injection at the former Aratex parcel, concentrations of VOCs (predominately PCE) in groundwater significantly decreased at former monitoring wells MW-301, -302, and -303 (see Table D-10 of Attachment D). For a period of approximately one year (dispersed between August 2006 and September 2009), no VOCs were detected in groundwater at these three monitoring wells.

Between June 2007 and December 2009, PCE concentrations in groundwater rebounded at these three monitoring wells. Similarly, VOCs were not detected in groundwater at monitoring well MW-407 from December 2007 to June 2008; however, PCE concentrations of 53 and 130 µg/L were reported in groundwater at MW-407 in September 2008 and December 2009, respectively (see Table D-11 of Attachment D).

The June 2006 *in situ* chemical oxidation injection had no apparent effect on the VOC plume in the vicinity of wells MW-208 and MW-406. When detected, only trace levels of VOCs were reported in groundwater at monitoring wells MW-306 from April 2006 to June 2008 and in MW-208 from April 2006 to September 2007 (see Tables D-8 and D-10 of Attachment D). As with the above wells, a slight rebound was reported in MW-306 from September 2008 to the present and in MW-208 from December 2007 to December 2009.

Additionally, when sampled, only trace to low levels of VOCs (predominately PCE) were detected from 2006 onward in groundwater at monitoring wells MW-202, -203, -204, -206, -207P, -306, -406, -409, and -409D (see Tables D-8, D-10, and D-11). No VOCs have historically been detected in upgradient wells MW-401 and MW-405 (see Table D-11 of Attachment D). Time trend graphs depicting PCE and TCE concentrations in groundwater for monitoring wells MW-203, -204, -205, -207P, -208P, and -409 are provided in Attachment F.

In May 2013, AEM installed five replacement wells (MW-210, -211, -212, -213, and -214) at the Aramark HSI/VRP site. Monitoring wells MW-210 and MW-211 were completed on the former Dynamic Metals parcel, while monitoring wells MW-212, -213, and -214 were completed on the former Aratex parcel (see Figure 3). With the exception of MW-214, the wells were screened across the residuum water table (see Table 4). Monitoring wells MW-212 and MW-213 are located downgradient of source areas 1 and 2 of the former Aratex parcel and were installed as replacement wells for MW-101 and MW-103 (see Figure 2). Monitoring well MW-214 (replacement well for MW-103D) was screened within the deep residuum to a depth of approximately 75 feet below ground surface.

Sonic well drilling and well installation activities were performed by Southern Sonic Solutions, of Aiken, South Carolina. The work was performed using a TSi 150T Sonic Rig and support truck. The sonic drilling procedure included the use of a double cased system to install the residuum boreholes. Thus, the boring is continuously cased, preventing borehole collapse and/or downhole sample contamination. Continuous soil samples were collected for lithologic characterization directly from the 4-inch-diameter inner-core-barrel, which was advanced (vibrated downward) at 10-foot intervals to the desired depth. The borehole diameter was enlarged using a 6-inch-diameter override casing, which was advanced over the 4-inch-diameter core-barrel. Soil cores were obtained, for lithologic characterization, from the inner-core-barrel, which was extracted from the override casing. Well construction—lithologic boring logs are provided in Attachment C.

Each monitoring well was constructed through the 6-inch-diameter override casing following the removal of the inner-core-barrel. Deep residuum monitoring well MW-214 was installed to a depth of 74.5 feet below ground surface. The remaining four shallower wells were constructed (top of screen) at or near the water table to depths ranging from 17.5 to 23 feet below ground surface. Well construction materials were as follows:

- Pre-cleaned 2-inch-diameter schedule 40 polyvinyl chloride (PVC) riser and screen (10 feet of 0.010-inch slot screen).
- 20–30 mesh silica sand was installed from the base of the borehole to approximately 2.0 feet above the top of the well screen.
- High-grade bentonite pellets were installed atop the sand pack and allowed to hydrate.
- Portland Type I cement plus 5% high-grade bentonite slurry was placed from the top of the bentonite plug to within 1 foot of the ground surface.
- Metal protective well covers consisted of either (a) 4-inch by 4-inch metal stick-up cover or (b) 8-inch-diameter flush-mounted well vault. Each protective cover was completed within a 2-foot by 2-foot by 4-inch concrete pad and sealed with a pressure cap and lock.

Monitoring well development was completed in May 2013. Development activities included both the surging and evacuation of groundwater from each well. Well surging was implemented to extract fines (silts and clays) from the sand pack as well as increase flow to the



well. The evacuation (pumping) of the wells allowed for the removal of fines as well as any water introduced to the well during its construction.

These five residuum monitoring wells were subsequently sampled in June 2013 and again in July 2013 and January 2014 as part of the semiannual monitoring events (see Section 6.2).

VOCs were not detected in newly installed monitoring wells MW-210 or MW-211 or in the newly installed vertical monitoring well MW-214, during the 2013 sampling events or in the January 2014 sampling event (see Table D-9 of Attachment D).

Concentrations of VOCs in groundwater at MW-212 and MW-213 have exhibited a decreasing trend since these monitoring wells were installed. Concentrations of VOCs in groundwater were 263 µg/L (MW-212) and 1,190 µg/L (MW-213) in June 2013 and consisted mainly of PCE (160 µg/L and 720 µg/L, respectively). In January 2014, total VOCs decreased to 193 µg/L (MW-212) and 1,162 µg/L (MW-213). The predominant VOC in groundwater at MW-213 was cis-1,2-DCE (1,000 µg/L), while PCE remained the predominant VOC in groundwater at MW-212 (110 µg/L) (see Table D-9 of Attachment D).

## **6.2 2014 GROUNDWATER MONITORING EVENT**

The most recent comprehensive groundwater level measurement and sampling event was performed by AEM between January 6 and January 27, 2014. The extended sampling period was due to inclement weather and the subsequent localized flooding (ponding of water) near the northern end of the former Aratex parcel. Installation of a silt fence along the northern edge of the former Aratex parcel, as part of the Atlanta Beltline construction project, prevented the normal flow of surface water run-off from the site. The resulting ponded water inundated monitoring wells (MW-206, -207P, and -306) for up to two weeks. Consequently, these wells could not be sampled until later in the month. Additionally, monitoring well MW-203 could not be sampled during this event as it was located beneath a soil pile from the Atlanta Beltline construction activities.

### **6.2.1 Depth-to-Groundwater Measurements**

Depth-to-groundwater measurements were collected from 20 monitoring wells on January 6, 2014 (see Attachment A). The groundwater measurements were taken using a Solinst® (Model 101) electronic water level meter in accordance with U.S. EPA SESD Field Branch Quality System and Technical Procedure SESDPROC-105-R2 (*Groundwater Level and Well Depth Measurement*) dated January 29, 2013. AEM personnel collected water level measurements by recording the depth to groundwater below the marked (surveyed) top of the polyvinyl chloride (PVC) well casing for each well. Measurements were recorded in monitoring wells in the order of least to most contaminated.

Groundwater elevations were then calculated by subtracting the depth-to-water measurements from the measuring point surveyed elevations. Groundwater elevation data are summarized in Attachment A. The data summarized in Attachment A were used to prepare

water level contour figures for the shallow residuum (see Figure 4), which indicate a groundwater flow direction toward the north-northwest. There also appears to be a southeasterly groundwater flow direction on the south side of the former Aratex parcel along DeKalb Avenue.

### 6.2.2 Groundwater Sampling Event

AEM personnel, under the supervision of a Georgia licensed professional geologist (PG), conducted the latest groundwater monitoring activities at the Aramark DeKalb HSI/VRP parcels in January 2014. Groundwater samples were collected from monitoring wells MW-109, -110, -111, -202, -203 (in 2014), -204, -205, -206, -207P, -208P, -210, -211, -212, -213, -214, -306, -401, -402, -403, -405, and -406. Quality control samples included two duplicate samples and trip blanks. The groundwater and quality control samples were collected for VOC analysis.

Groundwater samples were collected in accordance with U.S. EPA SESD Field Branch Quality System and Technical Procedure SESDPROC-301-R3 (*Groundwater Sampling*) dated March 6, 2013.

Groundwater purging and sampling activities were implemented using either an adjustable-speed peristaltic pump with dedicated Teflon-lined tubing or a Grundfos Redi-Flo 2 electric submersible pump with dedicated Teflon-lined tubing. Conventional purge and sample methods, utilizing slow-flow techniques to minimize sample volatility, were utilized. Purge water from the monitoring wells was containerized in 55-gallon steel drums for later profiling and disposal. Based on historic data, the drums were labeled as non-hazardous waste.

Depth to groundwater was measured at each accessible monitoring well at the facility (prior to collection of groundwater samples). The water level data will be used to calculate the groundwater elevation at each well, which will be shown and contoured on the potentiometric surface map (see Figure 4). To prevent fluctuations caused by local weather, depth-to-water measurements will be collected within a 24-hour period.

Temperature, pH, turbidity, and conductivity were measured at each sampled well during the purging effort and immediately prior to the collection of groundwater samples. These parameters were recorded on groundwater sampling field logs for each well (see Attachment G). The field logs record the sampling personnel, time and date of sample collection, well depth, purge volume, and purge method.

The groundwater samples were delivered to Xenco for analysis of Environmental Protection Agency (EPA) Method 8260 list VOCs. The laboratory analytical data report for the groundwater samples collected in January 2014 is included in Attachment E.

Table 3 presents a summary of all VOCs detected in groundwater during the January 2014 sampling event. Tables in Attachment D present an updated historical summary of VOCs detected in groundwater at all active monitoring wells at the Aramark DeKalb HSI Site.

### Shallow Residuum Aquifer

The shallow residuum aquifer is monitored by monitoring wells that are screened either across the water table or below/near the water table. The following wells are screened at the water table: MW-203, -204, -206, -207P, -208P, -210, -211, -212, -213, -401, -402, -403, and -409. Monitoring well MW-203 could not be located during the January 2014 sampling event, as it was underneath a pile of soil and debris from the Atlanta Beltline construction activities. MW-205 is also screened across the water table; however, as discussed above, MW-205 was abandoned prior to this sampling event as it was destroyed during the Atlanta Beltline construction activities.

The following constituents were detected in groundwater above the applicable Type 1 RRSs in samples collected from monitoring wells screened across the water table: PCE, TCE, cis-1,2-DCE, and vinyl chloride (see Table 3).

The following wells are screened below/near the water table: MW-109, -110, -111, -202, -306, and -409D. VOCs were not detected in groundwater samples collected from MW-109, -110, -111, -202, and -409D. PCE was the only VOC detected in a groundwater sample collected from MW-306 (32 µg/L) (see Table 3).

Figures 9 to 12 present the current extent of PCE, TCE, cis-1,2-DCE, and vinyl chloride, respectively, exceeding their respective Type 1 RRSs in the shallow residuum.

When comparing concentrations of VOCs in groundwater prior to the interim corrective measures, the current analytical results indicate that the interim corrective measures were successful in treating source material and VOCs in groundwater. In the source area, concentrations of VOCs decreased from 9,360 µg/L in 2009 to 1,155 µg/L in January 2014. Although total VOC concentrations increased from July 2013, a majority of the constituents detected in January 2014 are the PCE daughter products cis-1,2-DCE and vinyl chloride. This indicates that reductive dechlorination continues to occur. Figure 13 presents a comparison of total VOCs in groundwater in December 2009, prior to conduct of interim corrective measures, and in January 2014. Tables in Attachment D provide a summary of historical detections of VOCs in all monitoring wells at the Site.

Also, concentrations of VOCs in groundwater at downgradient monitoring wells MW-403 and MW-109 at the Site were 539 µg/L and 39 µg/L, respectively, in December 2009, prior to the conduct of soil blending corrective measures. Concentrations of VOCs initially increased in groundwater at these downgradient monitoring wells, to 1,940 µg/L (MW-403) and 61 µg/L (MW-109), in June 2011. However, VOC concentrations in groundwater have decreased to 104 µg/L (MW-403) and to below the detection limit (MW-109) in January 2014 (see Tables D-7 and D-11 of Attachment D). With the remediation of the upgradient source material at the former Aratex parcel, to a depth well below the water table, decreasing VOC concentrations are anticipated to continue in groundwater at monitoring well MW-403.

Concentrations of VOCs remain stable in groundwater upgradient along the western side of the 670 DeKalb Avenue parcel.

Trend charts are provided for select upgradient and downgradient monitoring wells (see Attachment F).

### **Deep Residuum**

Monitoring well MW-214 monitors the deep residuum. VOCs were not detected in the groundwater sample collected from this monitoring well.

## SECTION 7.0 MONITORING WELL ABANDONMENT

Over the course of the groundwater assessment and corrective action effort (1999 to 2012) numerous temporary and permanent monitoring wells and/or piezometers have been installed and subsequently abandoned from the 670 and 690 DeKalb Avenue properties, as well as the adjoining properties north of the former Aramark facility. A list of the historical sample points (former temporary and permanent monitoring wells and DPT boreholes) abandoned is included in Table 4. Based on available documentation, former temporary and permanent monitoring wells and DPT boreholes were abandoned (grouted) in place. However, select 1-inch temporary wells (TW-1, -2, and -3, TMW-1, -2, and -3, and ED-1 through ED-5) and piezometers (PZ-1), completed by AEM, were closed by removing the casing and screen and then tremie grouting down the open borehole.

Upon EPD approval of this CSR, Aramark will abandon the existing monitoring well network (MW-109, -110, -111, -210, -211, -402, and -403) at the 690 DeKalb Avenue property according to procedures set forth in EPA's Field Branches Quality System and Technical Procedures document SESDGUID-101-R1 (*Design and Installation of Monitoring Wells*). Proposed well abandonment procedures are outlined below.

It is proposed that the wells not be over-drilled because all the wells were properly constructed at the time of installation and all the annular spaces were grouted, thus preventing vertical migration of groundwater around the wells. The wells will be abandoned by pressure grouting the schedule 40 polyvinyl chloride (PVC) well screens and casings from the bottom to land surface. Thus, the grout will migrate through the screen to grout the sand pack. Thus, the abandoned wells will not provide a preferential migration pathway for groundwater.

The well casing/grout as well as the existing concrete pads, for wells completed in unpaved areas, will be removed to a depth of one to two feet below land surface. A concrete patch will then be placed over the abandoned well and the well covered with native soil to grade.

Wells completed in concrete or asphalt areas will be grouted flush to land surface including the area inside the well vaults. Likewise, stick-up well casings and their concrete pads will be removed flush to the ground. Thus, these wells will be effectively covered with a concrete pad after abandonment is complete, preventing the vertical migration of groundwater in the area of the abandoned monitoring wells.

## **SECTION 8.0**

### **SUMMARY AND CONCLUSIONS**

Based on a review of the historical VOC data collected for soil at the former Dynamic Metals Site (690 DeKalb Avenue), Aramark is certifying to the Type 1 RRS for VOCs in soil. Based on the site being certified to Type 1 RRS for soil, Aramark requests that the former Dynamic Metals Site be removed from the HSI.

Although cis-1,2-DCE and vinyl chloride have recently been detected in groundwater above Type 1 RRSs at one monitoring well (MW-403) on the Former Dynamic Metals Site, the concentrations exhibit a decreasing trend. Additionally, these VOCs are degradation products of PCE and TCE, source material associated with the adjacent Former Aratex site (690 DeKalb Avenue parcel). Thus, the groundwater impacts at the Former Dynamic Metals site are not a result of historical releases at the Site. Additionally, with the remediation of the upgradient source material at the former Aratex parcel, to a depth well below the water table, VOCs are expected to continue to decrease in groundwater at monitoring well MW-403. Aramark requests that monitoring wells at the Site be abandoned as discussed in Section 7.0 of this report.

Reported releases to groundwater in January 2014 did not exceed HSRA Reportable Quantity per the Reportable Quantity Screening Method (RQSM). In accordance with §12-8-107(g)(2) of the VIRP, corrective action for groundwater is not required, nor is certification of compliance required for groundwater.

## SECTION 9.0 REFERENCES

- Atlanta Environmental Management, Inc. 2003. *Compliance Status Report*. Aratex Services Facility, Atlanta Georgia. June 13, 2003 (Revised July 14, 2004, January 7, 2005, and March 15, 2006).
- . 2005a. *Corrective Action Plan*. Aramark Uniform and Career Apparel, Inc., Atlanta Georgia. April 23, 2005.
- . 2005b. *Groundwater Monitoring and Pilot Test Report*. Former Aramark Uniform and Career Apparel, Inc., Atlanta Georgia. November 16, 2005.
- . 2006. *Corrective Action Plan Supplement (August 2006)*. Aramark DeKalb Avenue Site 670 DeKalb Avenue, Atlanta, Georgia. August 8, 2006.
- . 2007. *Semiannual Groundwater Monitoring Report*. Former Aratex Services Facility 670 DeKalb Avenue, Atlanta, Georgia. February 7, 2007.
- . 2010a. *Soil Delineation Report and Proposed Remedial Scope*. Former Aratex Services, Inc., Atlanta, Georgia. January 11, 2010 (revised).
- . 2010b. *Underground Injection Control Revised Permit Application In Situ Chemical Oxidation (UIC Permit No. 275)*. Former Aramark Facility (HSI No. 10704) 670 DeKalb Avenue, Atlanta, Georgia. April 6, 2010.
- . 2011. *Voluntary Remediation Program Application*. Aramark Uniform and Career Apparel, LLC, 670 & 690 DeKalb Avenue Site, Atlanta, Georgia. July 15, 2011, revised.
- . 2013. *Voluntary Remediation Program First Semiannual Progress Report*. Aramark Uniform and Career Apparel, LLC, 670 & 690 DeKalb Avenue, Atlanta, Georgia. May 20, 2013.
- Clark W. Z., and Zisa, A. C. 1976. *Physiographic Map of Georgia*. Georgia Department of Natural Resources, Georgia Geological Survey, Atlanta, 1976.
- Cressler, C. W., Thurmond, C. J., and Hester, W. G. 1983. *Ground Water in the Greater Atlanta Region, Georgia*. U.S. Geological Survey Information Circular 63, 144 p.
- DePaul. 1990. *Site Characterization Contaminant Assessment Progress Report*. Aratex Services, Inc., Atlanta, Georgia. DePaul and Associates, Inc., December 17, 1990.
- . 1991. *Contaminant Assessment Phase II Progress Report*. Aratex Services, Inc., Atlanta, Georgia. DePaul and Associates, Inc., September 30, 1991.



- . 1992. *Contaminant Assessment Phase II Task-2 Progress Report*. Aratex Services, Inc., Atlanta, Georgia. DePaul and Associates, Inc., June 19, 1992.
- . 1993. *Soil-Corrective Action Plan Soil Vapor Extraction Remediation Plan*. Aratex Services, Inc., Atlanta, Georgia. DePaul and Associates, Inc., August 12, 1993.
- Farlow. 1989. *UST Removal and Summary & Update Notification* (Letter Report). Farlow Environmental Engineering, Inc., October 17, 1989.
- Georgia Environmental Protection Division. 2003. Chapter 391-3-19 Hazardous Site Response.
- Higgins, M. W., and Atkins, R. L. 1981. "The Stratigraphy of the Piedmont Southeast of the Brevard Zone in the Atlanta, Georgia, Area." In Wigley, P. B. (Ed.), *Latest Thinking on the Stratigraphy of Selected Areas in Georgia*. Georgia Geologic Survey Information Circular 54-A, pp. 3–40.
- Higgins, M. W., Crawford, T. J., Atkins, R. L., and Crawford, R. F. 2003. *Geologic map of the Atlanta 30' x 60' quadrangle, Georgia*. Scientific Investigations Map 2602. U.S. Geologic Survey, Reston, VA.
- Law. 2001. *Data Summary Report (Draft)*. Law Engineering and Environmental Services, Inc. May 21, 2001.
- MACTEC. 2006. *Compliance Status Report, Former Aramark and Dynamics Properties 670 and 690 DeKalb Avenue*. MACTAC Engineering and Consulting, Inc. June 22, 2006.
- McConnell, K. I., and Abrams, C. E. 1984. *Geology of the Greater Atlanta Region*. Georgia Geological Survey Bulletin 96, 127 p.
- Pickering. 2000. *Report on Phase II Environmental Testing*. Pickering Environmental Consultant, Inc. November 28, 2000.
- QORE. 1999. *Report of Phase I/Phase II Environmental Site Assessment*. QORE Property Science, Inc. November 9, 1999.
- United States Environmental Protection Agency (EPA) Region 4. 2007a. U.S. EPA Region 4 *SESD Operating Procedure—Field Equipment Cleaning and Decontamination*, SESDPROC-205-R2 (effective date December 20, 2011).
- . 2007b. *Operating Procedures—Groundwater Sampling*, SESDPROC-301-R3 (effective date March 6, 2013).

- . 2013. Field Branches Quality System and Technical Procedures Document SESDGUID-101-R1 (*Design and Installation of Monitoring Wells*). January 29, 2013.

---

# TABLES

Table 1. Summary of Historical Soil Sample Analytical Results.  
690 DeKalb Avenue  
ARAMARK DeKalb VRP/HSI Site No. 10704

		MW-5	MW-6	B-1	B-2	B-3	BH-1		BH-2	BH-3	MW-104			
		5/21/92	5/21/92	09/28/99			11/03/00				8/13/2001			
		5'	5'	Depth Unknown			5'	2-4'	22-24'	22-24'	14-16'	0-1'	8-10'	14-16'
Chlorinated VOCs, µg/kg		Type 1 RRS												
Tetrachloroethene	500	55	<5	<5	<5	<5	<2	<2	217	<2	<5	<5	<5	
1,1,1-Trichloroethane	20,000	<5	<5	<5	<5	<5	<2	<2	<2	<2	NA	NA	NA	
Trichloroethene	500	<5	<5	<5	52	<5	<2	<2	447	<2	<5	<5	<5	
1,1-Dichloroethene	700	<5	<5	<5	<5	<5	<2	<2	5.71	<2	<5	<5	<5	
1,2-Dichloroethane	500	<5	<5	<5	<5	<5	<2	<2	<2	<2	<5	<5	<5	
1,1-Dichloroethane	400,000	<5	<5	<5	<5	<5	<2	<2	<2	<2	<5	<5	<5	
Chloroethane	170	<10	<10	<10	<10	<10	<2	<2	<2	<2	<5	<5	<5	
cis-1,2-Dichloroethene	7,000	NA	NA	34	334	<5	<2	<2	273	<2	<5	<5	<5	
trans-1,2-Dichloroethene	10,000	164	<5	<5	<5	<5	<2	<2	19.2	<2	<5	<5	<5	
Vinyl Chloride	200	<10	<10	<10	109	<10	<2	<2	324	<2	<5	<5	<5	
Aromatic Hydrocarbons, µg/kg														
Benzene	500	<2	<2	<5	<5	<5	<2	<2	4.40	<2	<5	<5	<5	
Ethylbenzene	70,000	<2	<2	<5	<5	7.0	<2	<2	<2	<2	<5	<5	<5	
Toluene	100,000	<2	300	<5	57	6.0	<2	<2	<2	<2	<5	<5	<5	
Chlorobenzene	10,000	<5	<5	<5	<5	<5	<2	<2	<2	<2	NA	NA	NA	
Cyclohexane	200,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Naphthalene	100,000	NA	NA	NA	NA	NA	<2	<2	<2	<2	<5	<5	<5	
o-xylene	1,000,000	NA	NA	NA	NA	NA	<2	<2	<2	<2	NA	NA	NA	
m,p-Xylene	1,000,000	NA	NA	NA	NA	NA	<4	<4	<4	<4	NA	NA	NA	
Xylenes, total	1,000,000	<2	<2	<5	<5	19	NA	NA	NA	NA	<10	<10	<10	
Isopropylbenzene	21,888	NA	NA	NA	NA	NA	<2	<2	<2	<2	<5	<5	<5	
Non-Chlorinated VOCs, µg/kg														
2-Butanone	200,000	<100	<100	NA	NA	NA	4.51	<40	<40	<40	NA	NA	NA	
Acetone	400,000	<100	<100	NA	NA	NA	172	<40	<40	<40	NA	NA	NA	
Bromomethane	800	<10	<10	<10	<10	<10	<2	<2	<2	<2	NA	NA	NA	
Carbon Disulfide	400,000	<10	<10	NA	NA	NA	<2	<2	<2	<2	NA	NA	NA	
Iodomethane	NR	<5	<5	NA	NA	NA	<2	<2	<2	<2	NA	NA	NA	
Methylene Chloride	500	<5	<5	<1	<1	<1	27.6	<20	<20	<20	NA	NA	NA	

Table 1. Summary of Historical Soil Sample Analytical Results.  
690 DeKalb Avenue  
ARAMARK DeKalb VRP/HSI Site No. 10704

		MW-5	MW-6	B-1	B-2	B-3	BH-1		BH-2	BH-3	MW-104		
		5/21/92	5/21/92	09/28/99			11/03/00				8/13/2001		
		5'	5'	Depth Unknown		5'	2-4'	22-24'	22-24'	14-16'	0-1'	8-10'	14-16'
Metals, mg/Kg													
Arsenic	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
NR-Not Regulated  
µg/kg- micrograms per kilogram  
mg/kg-milligrams per kilogram  
NA-not analyzed  
Sample collected in the water table  
Exceeds Type 1 RRS  
\*--sample collected from Soil Pile

Table 1. Summary of Historical Soil Sample Analytical Results.  
690 DeKalb Avenue  
ARAMARK DeKalb VRP/HSI Site No. 10704

		MW-105			MW-106		MW-107			MW-108			MW-109		
		8/13/2001			8/15/2001		8/14/2001			8/15/2001			8/16/2001		
		0-2'	4-6'	14-16'	0-2'	16-18'	0-2'	4-6'	14-16'	0-2'	4-6'	12-14'	0-2'	4-6'	10-12'
Chlorinated VOCs, µg/kg		Type 1 RRS													
Tetrachloroethene	500	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	20,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	500	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	700	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	500	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	400,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	170	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene	7,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	10,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	200	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aromatic Hydrocarbons, µg/kg															
Benzene	500	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	70,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	100,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	200,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	100,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
o-xylene	1,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	1,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes, total	1,000,000	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Isopropylbenzene	21,888	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs, µg/kg															
2-Butanone	200,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	400,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	400,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 1. Summary of Historical Soil Sample Analytical Results.  
690 DeKalb Avenue  
ARAMARK DeKalb VRP/HSI Site No. 10704

		MW-105			MW-106		MW-107			MW-108			MW-109		
		8/13/2001			8/15/2001		8/14/2001			8/15/2001			8/16/2001		
		0-2'	4-6'	14-16'	0-2'	16-18'	0-2'	4-6'	14-16'	0-2'	4-6'	12-14'	0-2'	4-6'	10-12'
Metals, mg/Kg															
Arsenic	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
NR-Not Regulated  
µg/kg- micrograms per kilogram  
mg/kg-milligrams per kilogram  
NA-not analyzed  
Sample collected in the water table  
Exceeds Type 1 RRS  
\*--sample collected from Soil Pile



Table 1. Summary of Historical Soil Sample Analytical Results.  
690 DeKalb Avenue  
ARAMARK DeKalb VRP/HSI Site No. 10704

		MW-110			MW-111			SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7
		8/16/2001			8/15/2001			4/11/13	4/11/13	4/11/13	4/11/13	4/11/13	4/11/13	4/11/13
		4-6'	6-8'	10-12'	0-2'	10-12'	14-16'	0-3'*	0-3'*	0-3'*	0-3'*	0-3'*	0-3'*	0-3'*
Chlorinated VOCs, µg/kg		Type 1 RRS												
Tetrachloroethene	500	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	20,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	500	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	700	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	500	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	400,000	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA
Chloroethane	170	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	7,000	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	10,000	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	200	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA
Aromatic Hydrocarbons, µg/kg														
Benzene	500	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	70,000	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA
Toluene	100,000	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	200,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	100,000	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA
o-xylene	1,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	1,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes, total	1,000,000	<10	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	21,888	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA
Non-Chlorinated VOCs, µg/kg														
2-Butanone	200,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	400,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	400,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 1. Summary of Historical Soil Sample Analytical Results.  
690 DeKalb Avenue  
ARAMARK DeKalb VRP/HSI Site No. 10704

		MW-110			MW-111			SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7
		8/16/2001			8/15/2001			4/11/13	4/11/13	4/11/13	4/11/13	4/11/13	4/11/13	4/11/13
		4-6'	6-8'	10-12'	0-2'	10-12'	14-16'	0-3'*	0-3'*	0-3'*	0-3'*	0-3'*	0-3'*	0-3'*
Metals, mg/Kg														
Arsenic	20	NA	NA	NA	NA	NA	NA	<6.17	<5.39	<5.58	<5.78	<5.95	<5.35	<6.01
Barium	1,000	NA	NA	NA	NA	NA	NA	53.3	73.1	68.6	116	98.9	79	93.2
Cadmium	2	NA	NA	NA	NA	NA	NA	1.34	0.863	0.882	1.17	1.42	1.16	1.72
Chromium	100	NA	NA	NA	NA	NA	NA	20.1	7.19	8.44	11.1	11.8	9.32	13.1
Lead	75	NA	NA	NA	NA	NA	NA	17.9	14.6	12.9	13.4	15.4	16.8	23.4

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
NR-Not Regulated  
µg/kg- micrograms per kilogram  
mg/kg-milligrams per kilogram  
NA-not analyzed  
Sample collected in the water table  
Exceeds Type 1 RRS  
\*--sample collected from Soil Pile

**Table 2. Type 1 Risk Reduction Standards for Constituents of Concern in Soil and Groundwater.**

**690 DeKalb Avenue  
Aramark DeKalb VRP/HSI Site No. 10704**

	<b>Type 1 Soil RRS µg/kg</b>	<b>Type 1 Groundwater RRS µg/L</b>
<b>Chlorinated VOCs</b>		
Tetrachloroethene	500	5
1,1,1-Trichloroethane	20,000	200
Trichloroethene	500	5
1,1-Dichloroethene	700	7
1,2-Dichloroethane	500	5
1,1-Dichloroethane	400,000	4,000
Chloroethane	170	10*
cis-1,2-Dichloroethene	7,000	70
trans-1,2-Dichloroethene	10,000	100
Vinyl Chloride	200	2
<b>Aromatic Hydrocarbons</b>		
Benzene	500	5
Ethylbenzene	70,000	700
Toluene	100,000	1,000
Chlorobenzene	10,000	100
Cyclohexane	200,000	5*
Naphthalene	100,000	20
o-xylene	1,000,000	10,000
m,p-Xylene	1,000,000	10,000
Xylenes, total	1,000,000	10,000
Isopropylbenzene	21,888	5*
<b>Non-Chlorinated VOCs</b>		
2-Butanone	200,000	2,000
Acetone	400,000	4,000
Bromomethane	800	5*
Carbon Disulfide	400,000	4,000
Iodomethane	NR	NR
Methylene Chloride	500	5

Notes:

RRS-Risk Reduction Standard

VOCs-volatile organic compounds

NR-Not Regulated

\*-Risk Reduction Standard based on Detection limit

µg/kg- micrograms per kilogram

µg/L- micrograms per liter

Table 3. Summary of Constiuents of Concern Detected in Groundwater, January 2014.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-109 01/13/14	MW-110 01/10/14	MW-111 01/10/14	MW-202 01/10/14	MW-204 01/10/14	MW-206 01/27/14	MW-207P 01/16/14	MW-208P 01/09/14	MW-210 01/09/14	MW-211 01/09/14	MW-212 01/13/14	MW-213 01/13/14	MW-214 01/10/14	MW-306 01/27/14
Chlorinated VOCs																
Tetrachloroethene	µg/L	5	<5	<5	<5	<5	7.9	<5	5.9	9.3	<5	<5	110	100	<5	32
1,1,1-Trichloroethane	µg/L	200	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	17	49	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	4*	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
cis-1,2-Dichloroethene	µg/L	70	<5	<5	<5	<5	<5	11	<5	<5	<5	<5	61	1,000	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7.0	<5	<5
Vinyl Chloride	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	4.8	6.4	<2	<2
Aromatic Hydrocarbons																
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cyclohexane	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Xylenes, total	µg/L	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs																
2-Butanone (MEK)	µg/L	2,000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	71	<50	<50	<50
Acetone	µg/L	4,000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	280	<50	<50	<50
Bromomethane	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbon Disulfide	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methyl-tert-butyl Ether	µg/L	NR	<5	<5	<5	<5	<5	66	<5	<5	<5	<5	<5	<5	<5	<5

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
NS- Monitoring well not sampled; under surface water  
Exceeds Type 1 RRS  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated

Table 3. Summary of Constiuents of Concern Detected in Groundwater, January 2014.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-401 01/09/14	MW-402 01/13/14	MW-403 01/13/14	MW-405 01/09/14	MW-409 01/10/14	MW-409D 01/10/14
Type 1 RRS								
Chlorinated VOCs								
Tetrachloroethene	µg/L	5	<5	<5	<5	<5	5.1	<5
1,1,1-Trichloroethane	µg/L	200	<5	<5	<5	<5	<5	<5
Trichloroethene	µg/L	5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	4*	<4	<4	<4	<4	<4	<4
cis-1,2-Dichloroethene	µg/L	70	<5	<5	24	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	<2	80	<2	<2	<2
Aromatic Hydrocarbons								
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	<5	<5	<5	<5	<5	<5
Cyclohexane	µg/L	5*	<5	<5	<5	<5	<5	<5
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5
Xylenes, total	µg/L	10,000	NA	NA	NA	NA	NA	NA
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs								
2-Butanone (MEK)	µg/L	2,000	<50	<50	<50	<50	<50	<50
Acetone	µg/L	4,000	<50	<50	<50	<50	<50	<50
Bromomethane	µg/L	5*	<5	<5	<5	<5	<5	<5
Carbon Disulfide	µg/L	4,000	<5	<5	<5	<5	<5	<5
Methyl-tert-butyl Ether	µg/L	NR	<5	<5	<5	<5	<5	<5

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
NS- Monitoring well not sampled; under surface water  
Exceeds Type 1 RRS  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated

Table 4. Monitoring Well Construction Details  
ARAMARK DeKalb VRP/HSI Site No. 10704  
Atlanta, Georgia

Well No.	Date Installed	Date Abandoned	Consultant	Aquifer Zone	TOC Elevation (ft AMSL)	Total Depth (TOC)	Well Bottom Elevation (ft AMSL)	Casing Diameter (in)	Screen Interval (ft)	Screen Elevation (ft AMSL)	Screen Length (ft)
MW-1	8/1/1990	Unknown	Depaul	Shallow Residuum	1023.99	26	997.99	2.00	17-26	1047.99-997.99	9
MW-2	8/2/1990	Unknown	Depaul	Shallow Residuum	1015.20	25	990.20	2.00	16-26	1000.2-990.2	10
MW-3	8/2/1990	Unknown	Depaul	Shallow Residuum	1017.62	23	994.62	2.00	14-23	1003.62-994.62	9
MW-4	8/2/1990	Unknown	Depaul	Shallow Residuum	1021.62	22	999.62	2.00	10-25	1009.62-999.62	10
GP-8	5/22/1991	Unknown	Depaul	Soil Boring	NA	10	NA	NA	NA	NA	NA
MW-5	5/20/1992	Unknown	Depaul	Shallow Residuum	1019.76	25	994.76	2.00	15-25	1004.76-994.76	10
MW-6	5/20/1992	Unknown	Depaul	Shallow Residuum	1019.88	25	994.88	2.00	10-25	1001.88-994.88	10
MW-7	5/21/1992	Unknown	Depaul	Shallow Residuum	1020.39	25	995.39	2.00	10-25	1005.39-995.39	10
MW-8	5/21/1992	Unknown	Depaul	Shallow Residuum	NA	NA	NA	NA	NA	NA	NA
MW-9	5/21/1992	Unknown	Depaul	Deep Residuum	NA	88	NA	2.00	78-88	NA	10
B-1	9/28/1999	9/28/1999	QORE	Shallow Residuum	NA	25-30	NA	2.00	NA	NA	NA
B-2	9/28/1999	9/28/1999	QORE	Shallow Residuum	NA	25-30	NA	2.00	NA	NA	NA
B-3	9/28/1999	9/28/1999	QORE	Shallow Residuum	NA	25-30	NA	2.00	NA	NA	NA
BH-1	11/3/2000	11/3/2000	Pickering	Shallow Residuum	NA	28.00	NA	NA	NA	NA	NA
BH-2	11/3/2000	11/3/2000	Pickering	Shallow Residuum	NA	28.00	NA	NA	NA	NA	NA
BH-3	11/3/2000	11/3/2000	Pickering	Shallow Residuum	NA	28.00	NA	NA	NA	NA	NA
DP-101	4/24/2001	4/24/2001	Law	Shallow Residuum	NA	28	NA	2.00	NA	NA	NA
DP-102	4/25/2001	4/25/2001	Law	Shallow Residuum	NA	28	NA	2.00	NA	NA	NA
DP-103	4/24/2001	4/24/2001	Law	Shallow Residuum	NA	28	NA	2.00	NA	NA	NA
DP-104	4/25/2001	4/25/2001	Law	Shallow Residuum	NA	28	NA	2.00	NA	NA	NA
DP-105	4/25/2001	4/25/2001	Law	Shallow Residuum	NA	26	NA	2.00	NA	NA	NA
MW-101	4/24/2001	2005	Law	Shallow Residuum	1016.05	27.97	988.08	2.00	17.97-27.97	998.08 - 988.08	10
MW-102	4/23/2001	2005	Law	Shallow Residuum	1011.86	32.94	978.92	2.00	22.94-32.94	988.92 - 978.92	10
MW-103	4/24/2001	2005	Law	Shallow Residuum	1009.96	25.75	984.21	2.00	15.75-25.75	994.21 - 984.21	10
MW-104	8/31/2001	Under soil pile	Bock	Shallow Residuum	1013.75	24.17	989.58	2.00	14.17-24.17	999.58 - 989.58	10
MW-105	8/14/2001	Under soil pile	Bock	Shallow Residuum	NA	25.00	NA	2.00	NA	NA	15
MW-106	8/15/2001	Under soil pile	Bock	Shallow Residuum	1014.14	25.17	988.97	2.00	10.17-25.17	1,003.97 - 988.97	15
MW-107	8/14/2001	Under soil pile	Bock	Shallow Residuum	1014.19	25.17	989.02	2.00	7.17-22.17	1,004.02 - 989.02	15
MW-108	8/15/2001	Under soil pile	Bock	Shallow Residuum	1013.59	25.17	988.42	2.00	15.17-25.17	998.42 - 988.42	10
MW-109	8/16/2001	Active	Bock	Shallow Residuum	1012.74	25.17	987.57	2.00	7.17-25.17	1,002.57 - 987.57	15
MW-110	8/16/2001	Active	Bock	Shallow Residuum	1013.11	22.17	990.94	2.00	15.17-22.17	997.94 - 990.94	7
MW-111	8/15/2001	Active	Bock	Shallow Residuum	1013.73	25.00	988.73	2.00	10-25	1,003.73 - 988.73	15
MW-103D	4/17/2003	2005	AEM	Deep Residuum	1009.25	75.00	934.25	2.00	65-75	944.25 - 934.25	10
MW-201	4/14/2003	2005	AEM	Shallow Residuum	1015.76	23.82	991.94	2.00	13.82-23.82	1,001.94 - 991.94	10
MW-202	4/14/2003	Active	AEM	Shallow Residuum	1012.69	22.00	990.69	2.00	12-22	1,000.69 - 990.69	10
MW-203	4/15/2003	Active	AEM	Shallow Residuum	1013.47	25.00	988.47	2.00	15-25	998.47 - 988.47	10
MW-204	5/2/2003	Active	AEM	Shallow Residuum	1015.01	24.50	990.51	2.00	14.50-24.50	1,000.51 - 990.51	10
MW-205	3/31/2004	6/27/2013	AEM	Shallow Residuum	1009.90	17.00	992.90	2.00	7-17	1,002.90 - 992.90	10
MW-206	7/23/2004	Active	AEM	Shallow Residuum	1008.45	14.50	993.95	2.00	4.50-14.50	1003.95-993.95	10
MW-207	4/13/2006	7/7/2010	AEM	Shallow Residuum	1013.19	27.65	985.54	2.00	17.65-27.65	995.54-985.54	10
MW-208	4/3/2006	7/7/2010	AEM	Shallow Residuum	1011.57	29.18	982.39	2.00	19.18-29.18	992.39-982.39	10
MW-207P	9/2/2005	Active	MACTEC	Saturated Fill	1012.40	10.00	999.40	1.00	5.00-10.00	1004.40-999.40	5
MW-208P	9/2/2005	Active	MACTEC	Saturated Fill	1012.86	13.12	999.74	1.00	3.26-13.26	1009.74 - 999.74	10
MW-209P (PZ-2)	9/2/2005	7/7/2010	MACTEC	Saturated Fill	1013.20	16.52	998.78	1.00	6.52-16.52	1008.78 - 998.78	10

Table 4. Monitoring Well Construction Details  
ARAMARK DeKalb VRP/HSI Site No. 10704  
Atlanta, Georgia

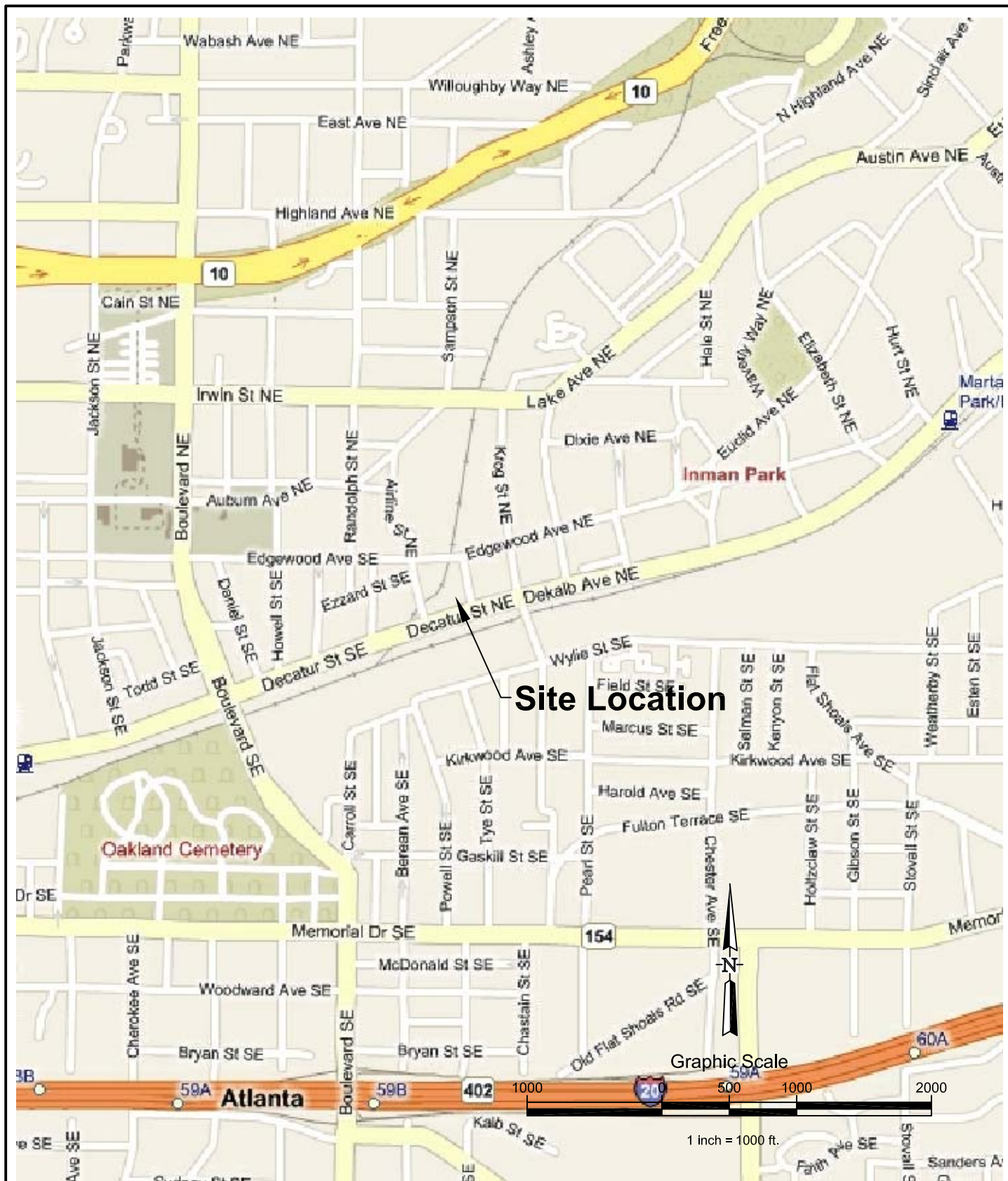
Well No.	Date Installed	Date Abandoned	Consultant	Aquifer Zone	TOC Elevation (ft AMSL)	Total Depth (TOC)	Well Bottom Elevation (ft AMSL)	Casing Diameter (in)	Screen Interval (ft)	Screen Elevation (ft AMSL)	Screen Length (ft)
MW-210	5/22/2013	Active	AEM	Shallow Residuum	1016.28	23.00	993.28	2.00	13.00 -23.00	1003.28 - 993.28	10
MW-211	5/22/2013	Active	AEM	Shallow Residuum	1016.37	21.00	995.37	2.00	11.00 - 21.00	1005.37 - 995.37	10
MW-212	5/22/2013	Active	AEM	Shallow Residuum	1014.06	17.50	996.56	2.00	7.50 - 17.50	1006.56 - 996.56	10
MW-213	5/22/2013	Active	AEM	Shallow Residuum	1009.79	17.00	992.79	2.00	7.00 -17.00	1002.79 - 992.79	10
MW-214	5/22/2013	Active	AEM	Deep Residuum	1009.40	74.50	934.90	2.00	64.50 - 74.50	944.90 - 934.90	10
TW-34	12/8/2004	Unknown	MACTEC	Shallow Residuum	NA	20.00	NA	2.00	5-20	NA	15
TW-35	12/8/2004	Unknown	MACTEC	Shallow Residuum	NA	15.00	NA	2.00	10-15	NA	5
TW-36	12/7/2004	Unknown	MACTEC	Shallow Residuum	NA	11.00	NA	2.00	2-12	NA	10
MW-301	4/4/2006	7/7/2010	AEM	Shallow Residuum	1012.60	27.98	984.62	2.00	17.98-27.98	994.62 - 984.62	10
MW-302	4/4/2006	7/7/2010	AEM	Shallow Residuum	1011.91	29.97	981.94	2.00	19.97-29.97	991.94 - 981.94	10
MW-303	4/4/2006	7/7/2010	AEM	Shallow Residuum	1009.39	28.98	980.41	2.00	18.98-28.98	990.41 - 980.41	10
MW-306	4/3/2006	Active	AEM	Shallow Residuum	1008.50	30.67	977.83	2.00	20.67-30.67	987.83 - 977.83	10
MW-401	4/13/2006	Active	MACTEC	Shallow Residuum	1013.69	15.95	997.74	2.00	5.95-15.95	1007.74 - 997.74	10
MW-402	4/13/2006	Active	MACTEC	Shallow Residuum	1016.21	19.47	996.74	2.00	9.47-19.47	1006.74 - 996.74	10
MW-403	4/13/2006	Active	MACTEC	Shallow Residuum	1015.22	22.61	992.61	2.00	12.61-22.61	1002.61 - 992.61	10
MW-404	4/14/2006	7/7/2010	MACTEC	Shallow Residuum	1009.13	13.93	995.20	2.00	3.93-13.93	1005.20 - 995.20	10
MW-405	4/14/2006	Active	MACTEC	Shallow Residuum	1015.84	18.60	997.24	2.00	8.60-18.60	1007.24 - 997.24	10
MW-406	4/18/2006	Active	MACTEC	Shallow Residuum	1015.00	22.26	992.74	2.00	12.26-22.26	1002.74 - 992.74	10
MW-407	4/18/2007	7/7/2010	MACTEC	Shallow Residuum	1012.89	19.48	993.41	2.00	9.48-19.48	1003.41 - 993.41	10
MW-408	4/18/2007	7/7/2010	MACTEC	Shallow Residuum	1009.91	16.00	993.91	2.00	6-16	1003.91 - 993.91	10
MW-409	4/19/2007	Active	MACTEC	Shallow Residuum	1016.36	20.29	996.07	2.00	10.29-20.29	1006.07 - 996.07	10
MW-409D	4/19/2007	Active	MACTEC	Shallow Residuum	1016.07	30.70	985.37	2.00	28.70-30.70	987.37 - 985.37	2
PZ-1 (TPZ-1)	4/8/2003	2006	AEM	Shallow Residuum	1009.31	20.00	989.31	1.00	4.50-19.50	1,004.31 - 989.31	15
TW-1 <sup>1</sup>	9/7/2005	2005	AEM	Shallow Residuum	NA	25.5	NA	2.00	15.20-25.20	NA	10
TW-2 <sup>1</sup>	9/7/2005	2005	AEM	Shallow Residuum	NA	25.2	NA	2.00	15.20-25.20	NA	10
TW-3 <sup>1</sup>	9/7/2005	2005	AEM	Shallow Residuum	NA	25.2	NA	2.00	15.20-25.20	NA	10
TMW-1 (AEM-GP-4)	8/5/2008	7/7/2010	AEM	Shallow Residuum	NA	18.00	NA	1.00	8.00-18.00	NA	10
TMW-2 (AEM-GP-10)	8/5/2008	7/7/2010	AEM	Shallow Residuum	NA	19.55	NA	1.00	9.55-19.55	NA	10
TMW-3 (AEM-GP-14)	8/5/2008	7/7/2010	AEM	Shallow Residuum	NA	19.50	NA	1.00	9.50-19.50	NA	10
ED-1	12/7/2005	12/20/2005	AEM	Shallow Residuum	1028.59	32.5	996.09	1.00	22.5-32.5	1006.09-996.09	10
ED-2	12/7/2005	12/20/2005	AEM	Shallow Residuum	1028.28	29.35	998.93	1.00	19.35-29.35	1008.93-998.93	10
ED-3	12/7/2005	12/20/2005	AEM	Shallow Residuum	1028.89	32.7	996.19	1.00	22.70-32.70	1006.19-996.19	10
ED-4	12/7/2005	12/20/2005	AEM	Shallow Residuum	1028.81	34.3	994.51	1.00	24.30-34.30	1004.51-994.51	10
ED-5	12/7/2005	12/20/2005	AEM	Shallow Residuum	1031.5	42.1	989.40	1.00	32.10-42.10	999.40-989.40	10

NA- Not Available  
AMSL - Above Mean Sea Level  
TOC - Top Of Casing  
ft - feet  
in - inches  
<sup>1</sup> Not surveyed ( In- situ chemical oxydation pilot test temporary wells)



---

# FIGURES



Atlanta Environmental Management, Inc.  
Environmental Consulting, Engineering, Hydrogeologic Services

2580 Northeast Expressway • Atlanta, Georgia 30345  
Phone: 404.329.9006 • Fax: 404.329.2057

## Former Dynamic Metals Parcel Compliance Status Report

PROJECT #: 1133-1401-6 DRAWN BY: Tom Longo

SCALE: 1" = 1000' DATE: April 21, 2014





Site Location

Figure

1

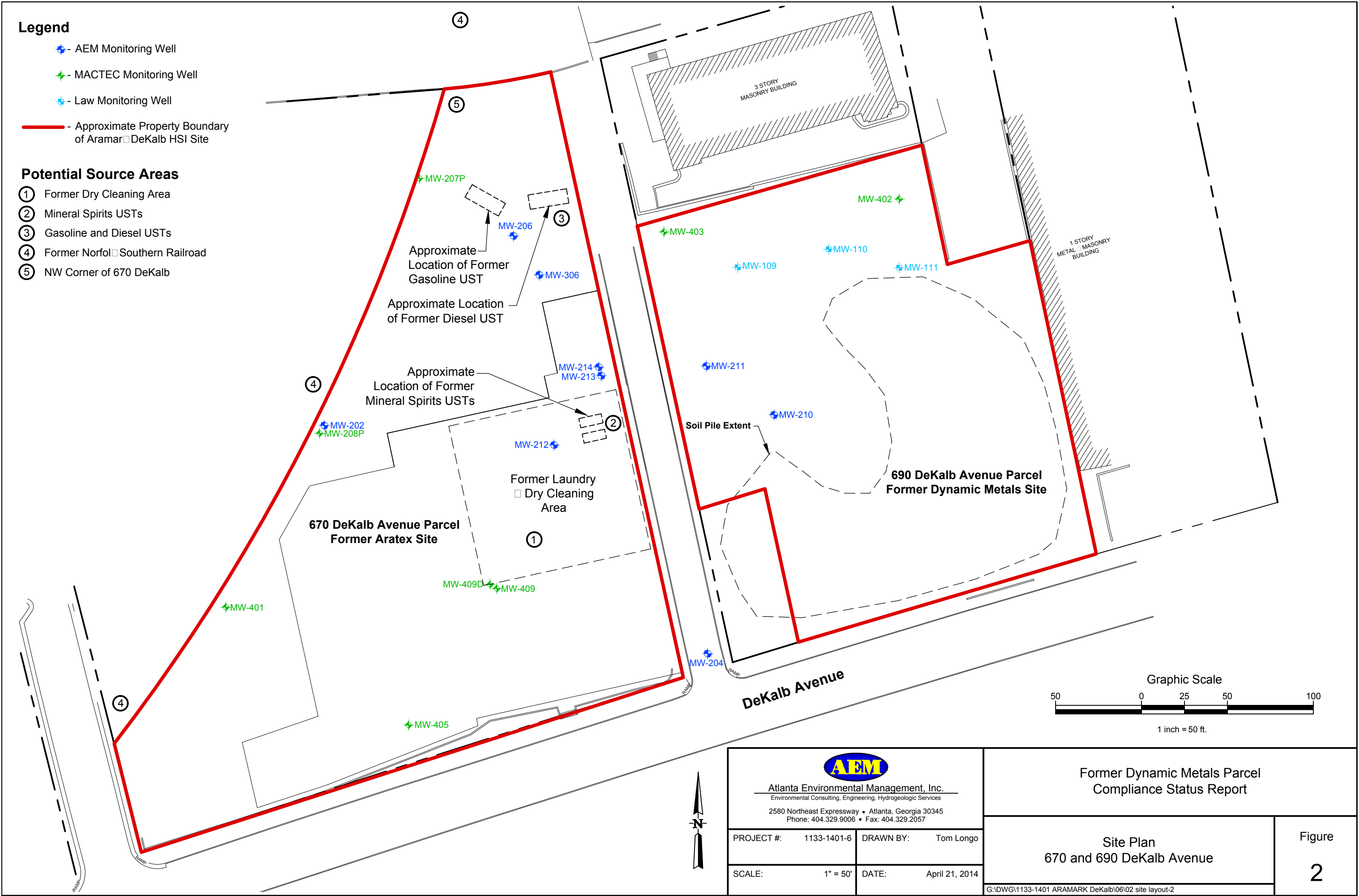
G:\DWG\1133-1401 ARAMARK DeKalb\06\01 Site Map

Legend

-  - AEM Monitoring Well
-  - MACTEC Monitoring Well
-  - Law Monitoring Well
-  - Approximate Property Boundary of Aramar/DeKalb HSI Site

Potential Source Areas

- ① Former Dry Cleaning Area
- ② Mineral Spirits USTs
- ③ Gasoline and Diesel USTs
- ④ Former Norfolk/Southern Railroad
- ⑤ NW Corner of 670 DeKalb





Type I Risk Reduction Standards	
Chlorinated VOCs, µg/kg	
Tetrachloroethene	500
Trichloroethene	500
1,1-Dichloroethene	700
cis-1,2-dichloroethene	7,000
trans-1,2-dichloroethene	10,000
Vinyl Chloride	200
Aromatic Hydrocarbons, µg/kg	
Benzene	500
Ethylbenzene	70,000
Toluene	100,000
Xylenes	1,000,000
Non-Chlorinated VOCs, µg/kg	
2-Butanone	200,000
Acetone	400,000
Methylene Chloride	500
Metals, mg/kg	
Arsenic	20
Barium	1,000
Cadmium	2
Chromium	100
Lead	75

## Legend

- - AEM Soil Boring (2013)
- ▲ - DePaul Soil Boring (1992)
- ◆ - Pickering Soil Boring (2000)
- ★ - Qore Soil Boring (1999)
- - Bock Soil Boring (2001)
- Exceeds Type I Risk Reduction Standard
- Soil Sample Collected at or Within the Water Table
- VOCs - Volatile Organic Compounds
- µg/kg - Micrograms per Kilogram
- mg/kg - Milligrams per Kilogram
- BDL - Below Detection Limits
- Approximate Property Boundary of Aramark DeKalb HSI Site
- Surface Contour Lines (2' Interval)

B-2 (Depth Unknown)	
9/28/1999	
Chlorinated VOCs	
Trichloroethene, µg/kg	52
cis-1,2-dichloroethene, µg/kg	334
Vinyl Chloride, µg/kg	109
Aromatic Hydrocarbons	
Ethylbenzene, µg/kg	52
Toluene, µg/kg	334
Xylenes, µg/kg	109

MW-6	
5/21/1992	
Toluene, µg/kg	300

B-1 (Depth Unknown)	
9/28/1999	
cis-1,2-dichloroethene, µg/kg	34

MW-5	
5/21/1992	
Tetrachloroethene, µg/kg	55
trans-1,2-dichloroethene, µg/kg	164

BH-2	
11/30/2000	
Chlorinated VOCs	
Tetrachloroethene, µg/kg	217
Trichloroethene, µg/kg	447
1,1-Dichloroethene, µg/kg	5.71
cis-1,2-dichloroethene, µg/kg	273
trans-1,2-dichloroethene, µg/kg	19.2
Vinyl Chloride, µg/kg	324
Aromatic Hydrocarbons	
Benzene, µg/kg	4.4

B-3	
9/28/1999	
Ethylbenzene, µg/kg	7
Toluene, µg/kg	6
Xylenes, µg/kg	19
BH-1	
11/30/2000	
ALL VOCs	BDL

SP-1	
4/11/2013	
Arsenic	<6.17
Barium	53.3
Cadmium	1.34
Chromium	20.1
Lead	17.9

B-3	
9/28/1999	
Ethylbenzene, µg/kg	7
Toluene, µg/kg	6
Xylenes, µg/kg	19

SP-6	
4/11/2013	
Barium, mg/kg	79
Cadmium, mg/kg	1.16
Chromium, mg/kg	9.32
Lead, mg/kg	16.8

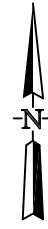
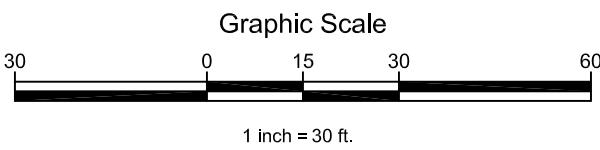
SP-4	
4/11/2013	
Barium, mg/kg	116
Cadmium, mg/kg	1.17
Chromium, mg/kg	11.1
Lead, mg/kg	13.4

SP-3	
4/11/2013	
Barium, mg/kg	68.6
Cadmium, mg/kg	0.882
Chromium, mg/kg	8.44
Lead, mg/kg	12.9

SP-2	
4/11/2013	
Barium, mg/kg	73.1
Cadmium, mg/kg	0.863
Chromium, mg/kg	7.19
Lead, mg/kg	14.6







SP-5	
4/11/2013	
Barium, mg/kg	98.9
Cadmium, mg/kg	1.42
Chromium, mg/kg	11.8
Lead, mg/kg	15.4

SP-7	
4/11/2013	
Barium, mg/kg	93.2
Cadmium, mg/kg	1.72
Chromium, mg/kg	13.1
Lead, mg/kg	23.4

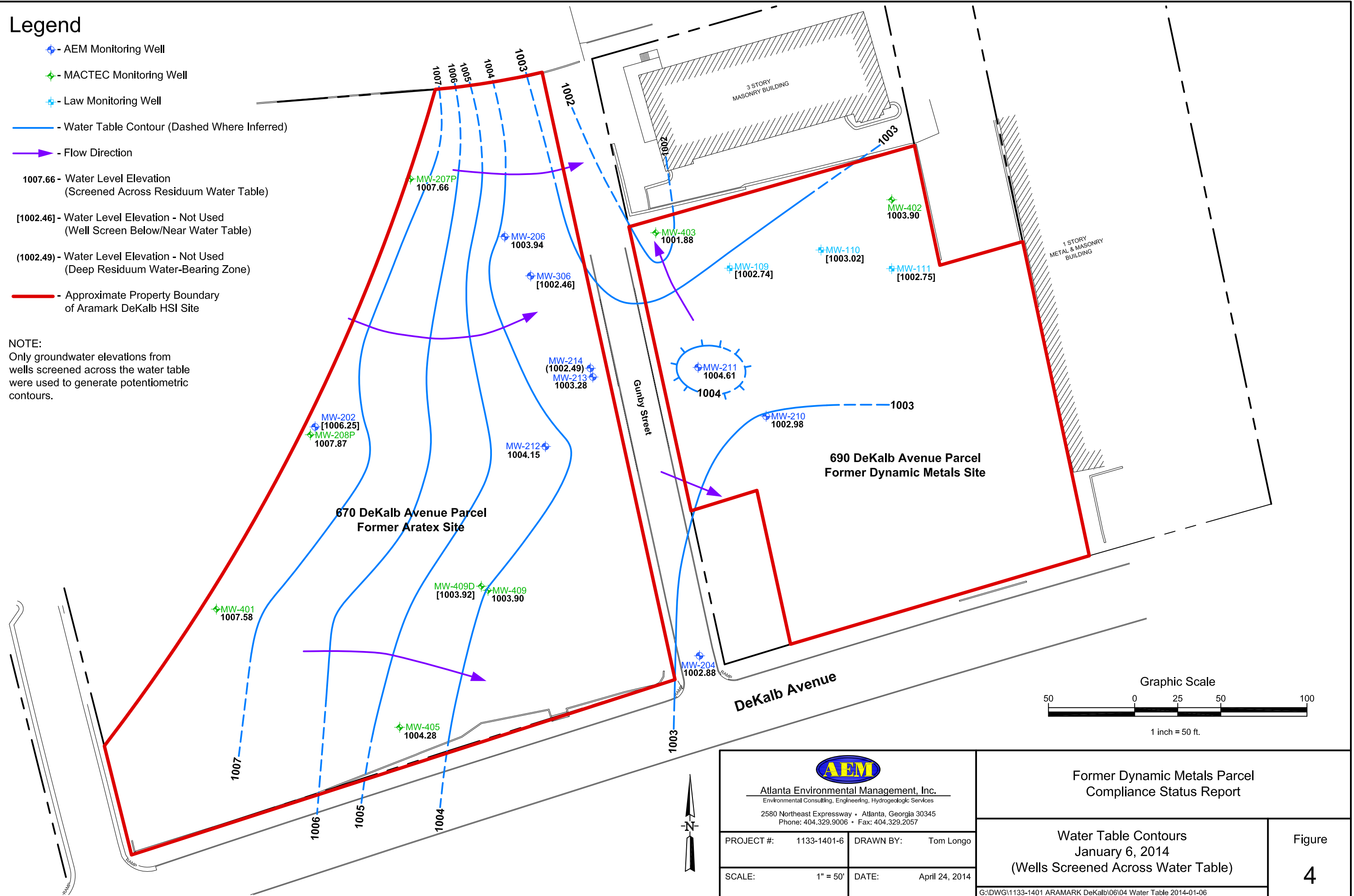


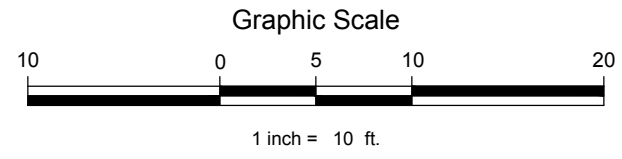
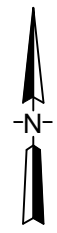
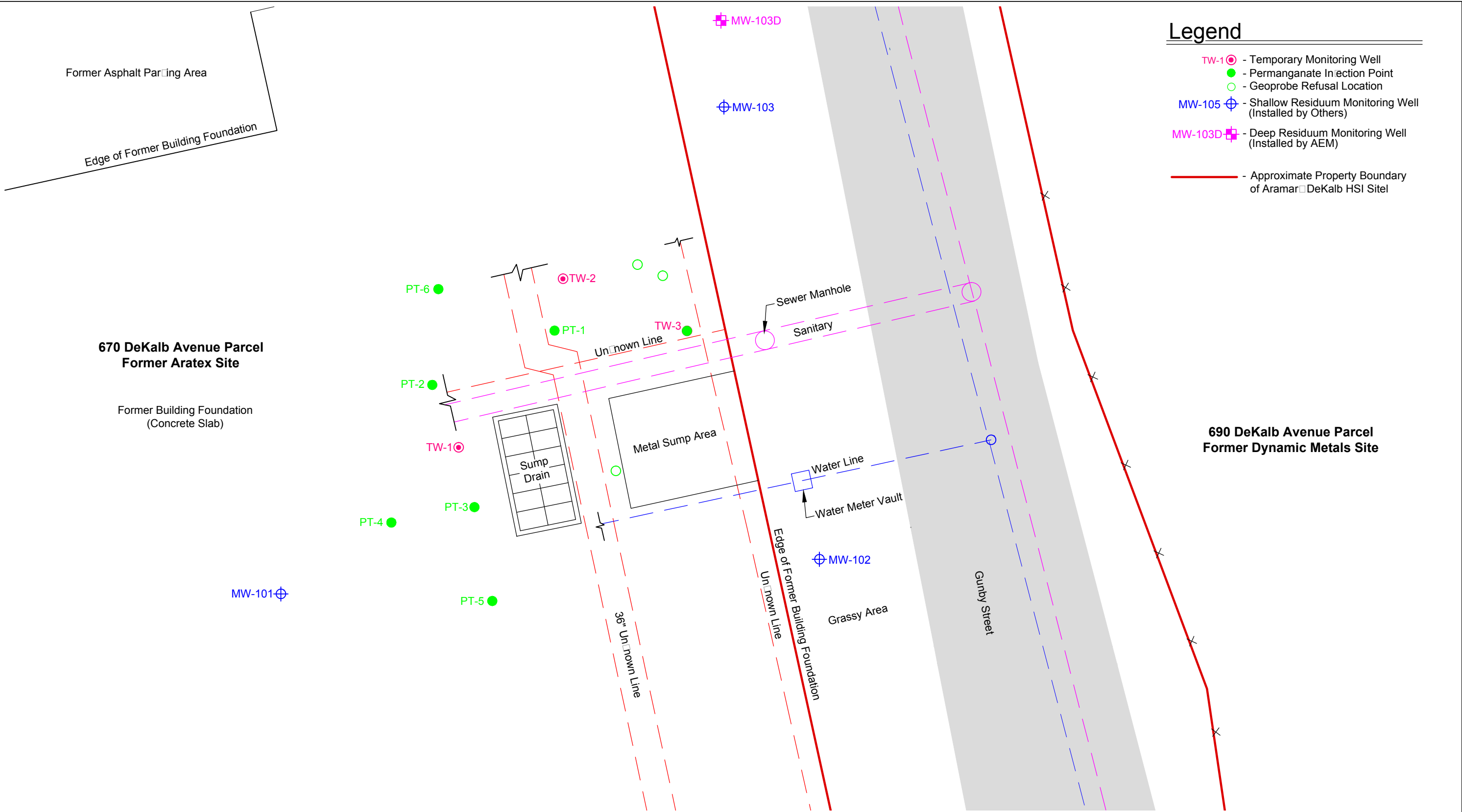
Atlanta Environmental Management, Inc.		Former Dynamic Metals Parcel Compliance Status Report	
Environmental Consulting, Engineering, Hydrogeologic Services 2580 Northeast Expressway • Atlanta, Georgia 30345 Phone: 404.329.9006 • Fax: 404.329.2057		690 DeKalb Avenue Historical VOCs and Metals in Soil	
PROJECT #:	1133-1301-3	DRAWN BY:	Tom Longo
SCALE:	1" = 30'	DATE:	April 24, 2014
G:\DWG\1133-1401 ARAMARK DeKalb\06\03 Historical VOC and Metals		Figure 3	


# Legend

-  - AEM Monitoring Well
-  - MACTEC Monitoring Well
-  - Law Monitoring Well
-  - Water Table Contour (Dashed Where Inferred)
-  - Flow Direction
- 1007.66 - Water Level Elevation  
(Screened Across Residuuum Water Table)
- [1002.46] - Water Level Elevation - Not Used  
(Well Screen Below/Near Water Table)
- (1002.49) - Water Level Elevation - Not Used  
(Deep Residuuum Water-Bearing Zone)
-  - Approximate Property Boundary of Aramark DeKalb HSI Site

NOTE:  
Only groundwater elevations from wells screened across the water table were used to generate potentiometric contours.



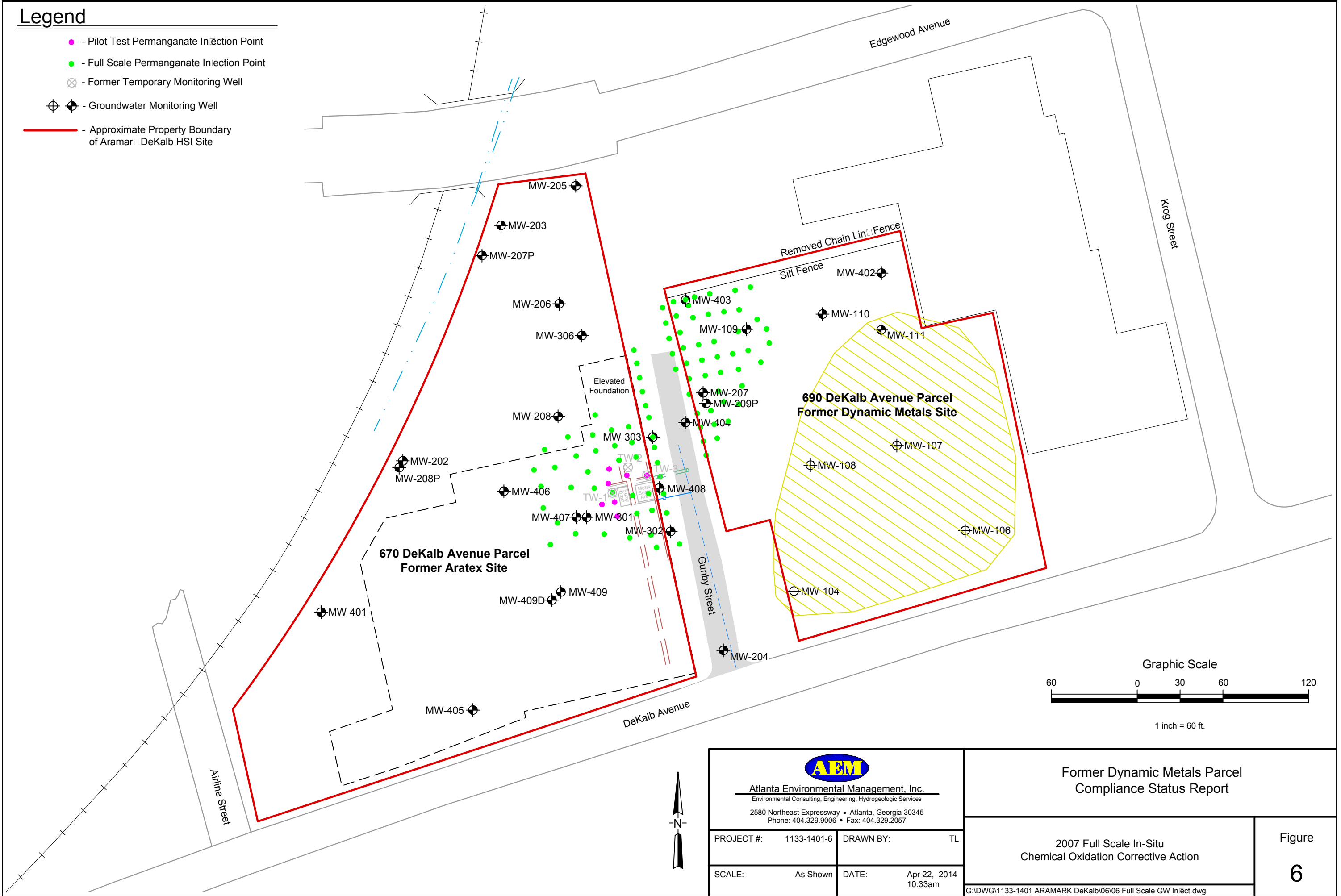



<div> <b>Atlanta Environmental Management, Inc.</b> Environmental Consulting, Engineering, Hydrogeologic Services 2580 Northeast Expressway • Atlanta, Georgia 30345 Phone: 404.329.9006 • Fax: 404.329.2057</div>		Former Dynamic Metals Parcel Compliance Status Report	
PROJECT #:	1133-1401-6	DRAWN BY:	TL
SCALE:	As Shown	DATE:	Apr 22, 2014 10:32am
		2005 Sodium Permanganate Pilot Test Injection Locations	
		G:\DWG\1133-1401 ARAMARK DeKalb\06\05 Pilot Test Injection Pts.dwg	
		Figure  5	



Legend




- Pilot Test Permanganate Injection Point
- Full Scale Permanganate Injection Point
- Former Temporary Monitoring Well
- Groundwater Monitoring Well
- Approximate Property Boundary of Aramar/DeKalb HSI Site

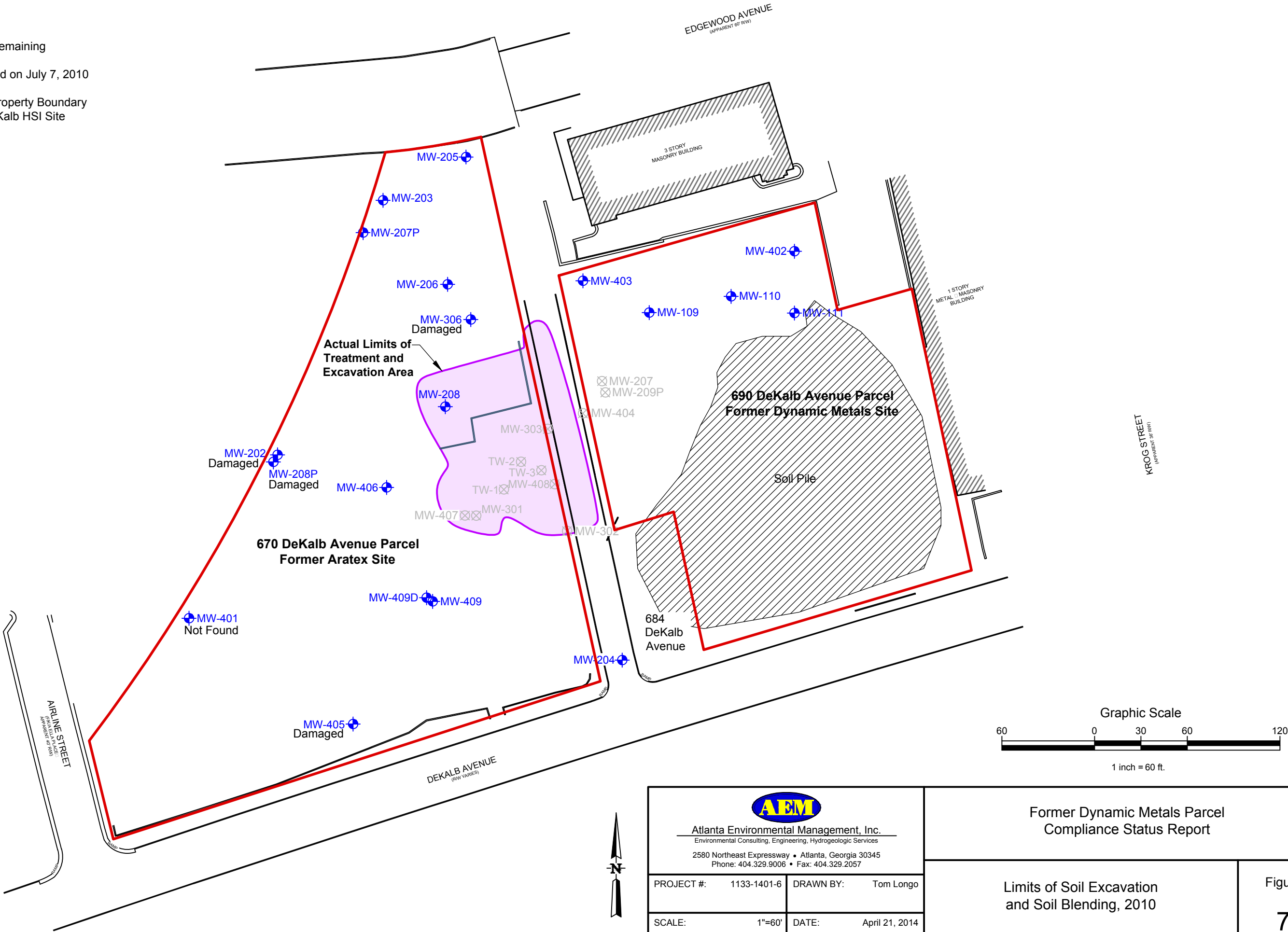



<div> <b>Atlanta Environmental Management, Inc.</b> Environmental Consulting, Engineering, Hydrogeologic Services 2580 Northeast Expressway • Atlanta, Georgia 30345 Phone: 404.329.9006 • Fax: 404.329.2057</div>		Former Dynamic Metals Parcel Compliance Status Report			
PROJECT #:	1133-1401-6	DRAWN BY:	TL	2007 Full Scale In-Situ Chemical Oxidation Corrective Action	Figure  6
SCALE:	As Shown	DATE:	Apr 22, 2014 10:33am		
G:\DWG\1133-1401 ARAMARK DeKalb\06\06 Full Scale GW Inj.ct.dwg					



Legend

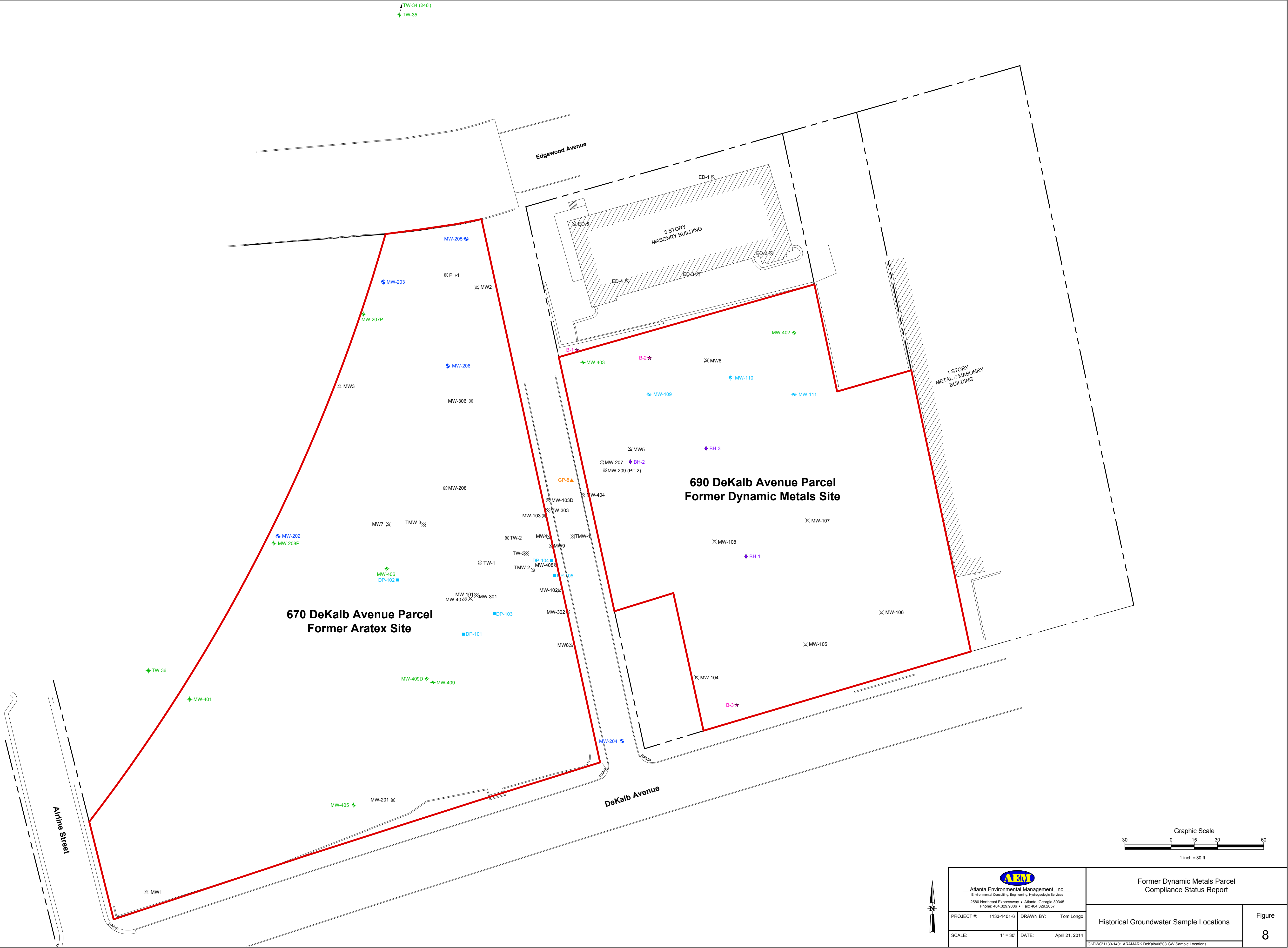
-  - Existing Well Remaining
-  - Well Abandoned on July 7, 2010
-  - Approximate Property Boundary of Aramar/DeKalb HSI Site



 Atlanta Environmental Management, Inc. Environmental Consulting, Engineering, Hydrogeologic Services 2580 Northeast Expressway • Atlanta, Georgia 30345 Phone: 404.329.9006 • Fax: 404.329.2057		Former Dynamic Metals Parcel Compliance Status Report	
PROJECT #:	1133-1401-6	DRAWN BY:	Tom Longo
SCALE:	1"=60'	DATE:	April 21, 2014
Limits of Soil Excavation and Soil Blending, 2010			Figure 7
G:\DWG\1133-1401 ARAMARK DeKalb\06\07 Blending-Excavation Limits			

Legend

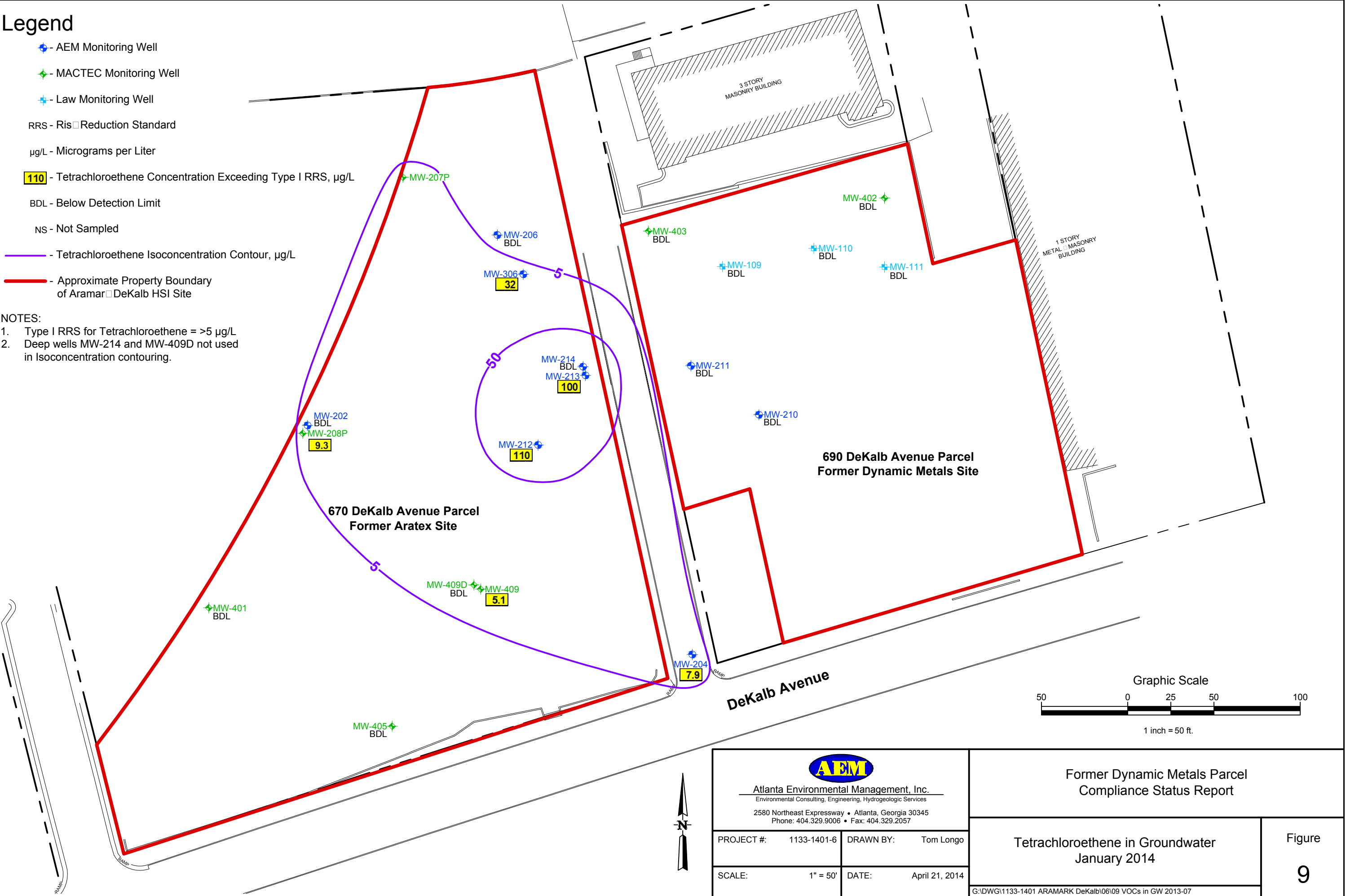
- ⚡ - AEM Monitoring Well
- ⌘ - AEM Monitoring Well (Abandoned)
- ⚡ - MACTEC Monitoring Well
- ⌘ - MACTEC Monitoring Well (Abandoned)
- ⌘ - DePaul Monitoring Well (Abandoned)
- ▲ - DePaul Groundwater Sample
- ◆ - Pic:ering Groundwater Sample
- ★ - □ore Groundwater Sample
- ⚡ - Law Monitoring Well
- ⌘ - Law Monitoring Well (Abandoned)
- - Law Groundwater Sample
- - Approximate Property Boundary of Aramar□DeKalb HSI Site



Legend

- ⊕ - AEM Monitoring Well
- ⬢ - MACTEC Monitoring Well
- ⊕ - Law Monitoring Well
- RRS - Risk Reduction Standard
- µg/L - Micrograms per Liter
- 110 - Tetrachloroethene Concentration Exceeding Type I RRS, µg/L
- BDL - Below Detection Limit
- NS - Not Sampled
- Tetrachloroethene Isoconcentration Contour, µg/L
- Approximate Property Boundary of Aramark DeKalb HSI Site

- NOTES:
- 1. Type I RRS for Tetrachloroethene = >5 µg/L
  - 2. Deep wells MW-214 and MW-409D not used in Isoconcentration contouring.



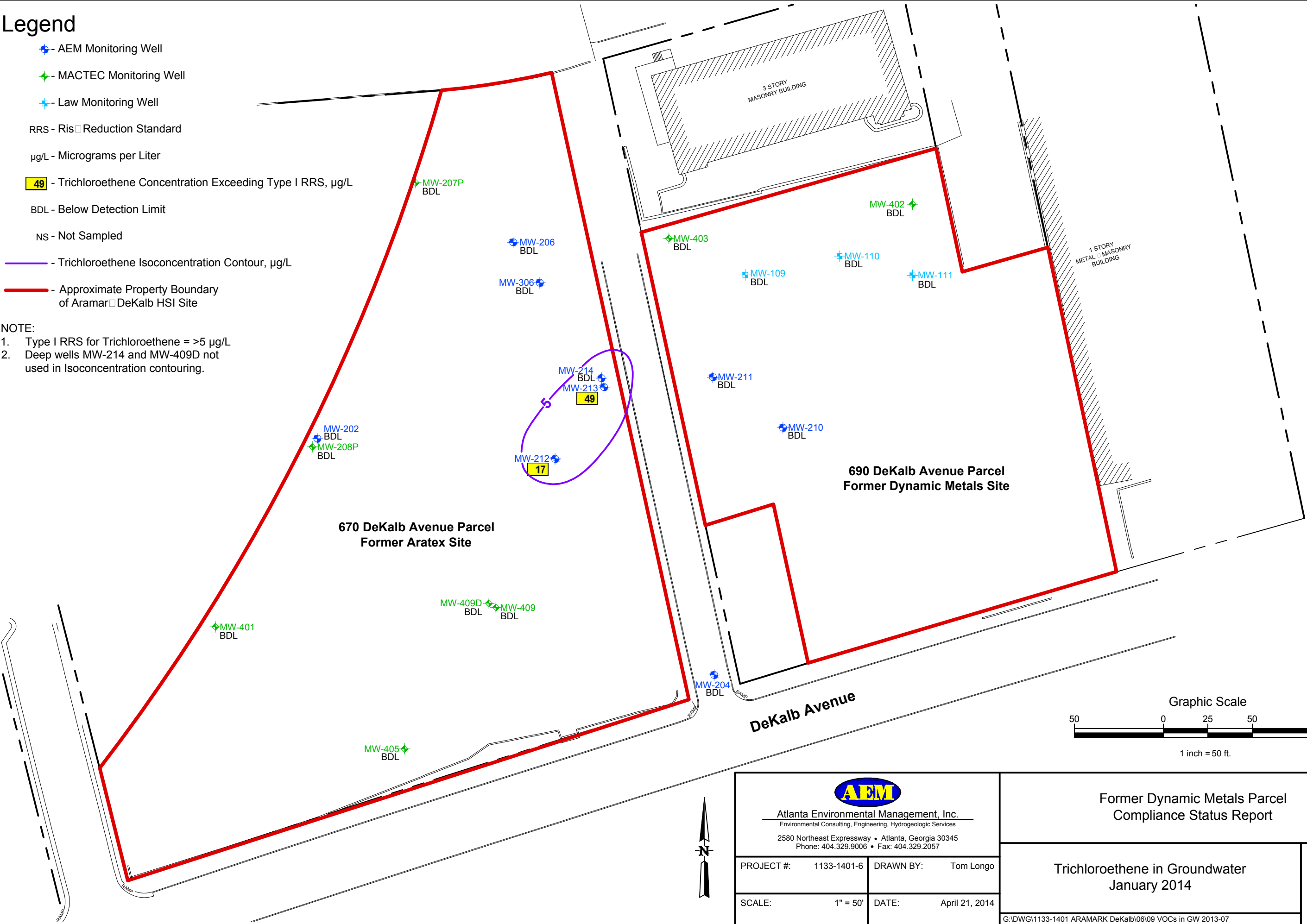
 <b>Atlanta Environmental Management, Inc.</b> Environmental Consulting, Engineering, Hydrogeologic Services 2580 Northeast Expressway • Atlanta, Georgia 30345 Phone: 404.329.9006 • Fax: 404.329.2057		Former Dynamic Metals Parcel Compliance Status Report	
		Tetrachloroethene in Groundwater January 2014	
PROJECT #:	1133-1401-6	DRAWN BY:	Tom Longo
SCALE:	1" = 50'	DATE:	April 21, 2014
G:\DWG\1133-1401 ARAMARK DeKalb\06\09 VOCs in GW 2013-07			

Figure  
9

Legend

- AEM Monitoring Well
- MACTEC Monitoring Well
- Law Monitoring Well
- RRS - Risk Reduction Standard
- µg/L - Micrograms per Liter
- Trichloroethene Concentration Exceeding Type I RRS, µg/L
- BDL - Below Detection Limit
- NS - Not Sampled
- Trichloroethene Isoconcentration Contour, µg/L
- Approximate Property Boundary of Aramark DeKalb HSI Site

NOTE:  
1. Type I RRS for Trichloroethene = >5 µg/L  
2. Deep wells MW-214 and MW-409D not used in Isoconcentration contouring.



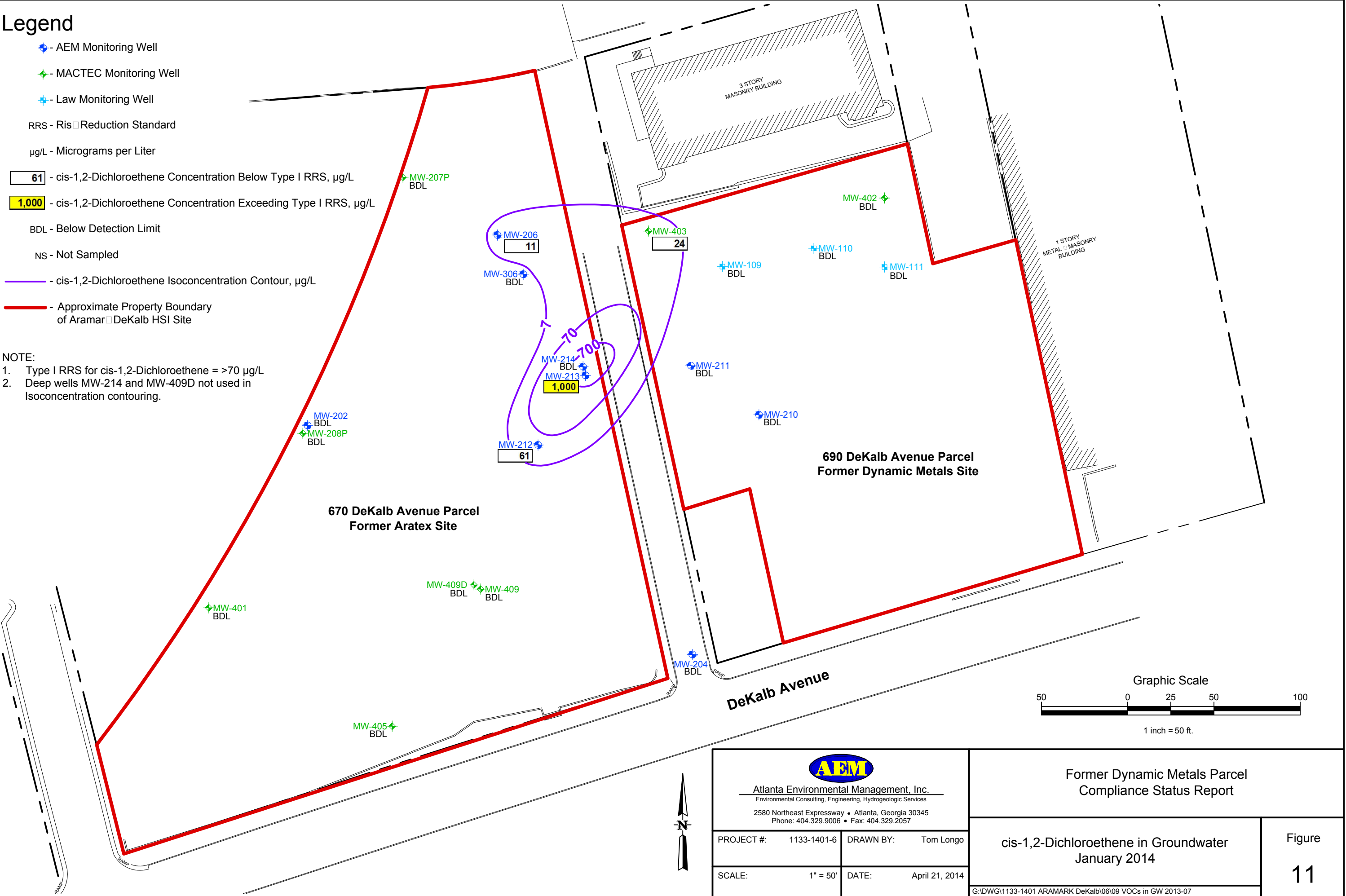
 Atlanta Environmental Management, Inc. Environmental Consulting, Engineering, Hydrogeologic Services 2580 Northeast Expressway • Atlanta, Georgia 30345 Phone: 404.329.9006 • Fax: 404.329.2057		Former Dynamic Metals Parcel Compliance Status Report	
PROJECT #:	1133-1401-6	DRAWN BY:	Tom Longo
SCALE:	1" = 50'	DATE:	April 21, 2014
Trichloroethene in Groundwater January 2014			Figure 10
G:\DWG\1133-1401 ARAMARK DeKalb\06\09 VOCs in GW 2013-07			



Legend

- AEM Monitoring Well
- MACTEC Monitoring Well
- Law Monitoring Well
- RRS - Risk Reduction Standard
- µg/L - Micrograms per Liter
- 61 - cis-1,2-Dichloroethene Concentration Below Type I RRS, µg/L
- 1,000 - cis-1,2-Dichloroethene Concentration Exceeding Type I RRS, µg/L
- BDL - Below Detection Limit
- NS - Not Sampled
- cis-1,2-Dichloroethene Isoconcentration Contour, µg/L
- Approximate Property Boundary of Aramark DeKalb HSI Site

NOTE:  
1. Type I RRS for cis-1,2-Dichloroethene = >70 µg/L  
2. Deep wells MW-214 and MW-409D not used in Isoconcentration contouring.



 <b>Atlanta Environmental Management, Inc.</b> Environmental Consulting, Engineering, Hydrogeologic Services 2580 Northeast Expressway • Atlanta, Georgia 30345 Phone: 404.329.9006 • Fax: 404.329.2057		Former Dynamic Metals Parcel Compliance Status Report	
		cis-1,2-Dichloroethene in Groundwater January 2014	
PROJECT #:	1133-1401-6	DRAWN BY:	Tom Longo
SCALE:	1" = 50'	DATE:	April 21, 2014
G:\DWG\1133-1401 ARAMARK DeKalb\06\09 VOCs in GW 2013-07			

Figure  
**11**

# Legend

⊕ - AEM Monitoring Well

⬢ - MACTEC Monitoring Well

⊕ - Law Monitoring Well

RRS - Risk Reduction Standard

µg/L - Micrograms per Liter

**80** - Vinyl Chloride Concentration Exceeding Type I RRS, µg/L

BDL - Below Detection Limit

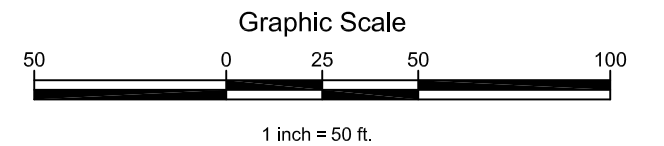
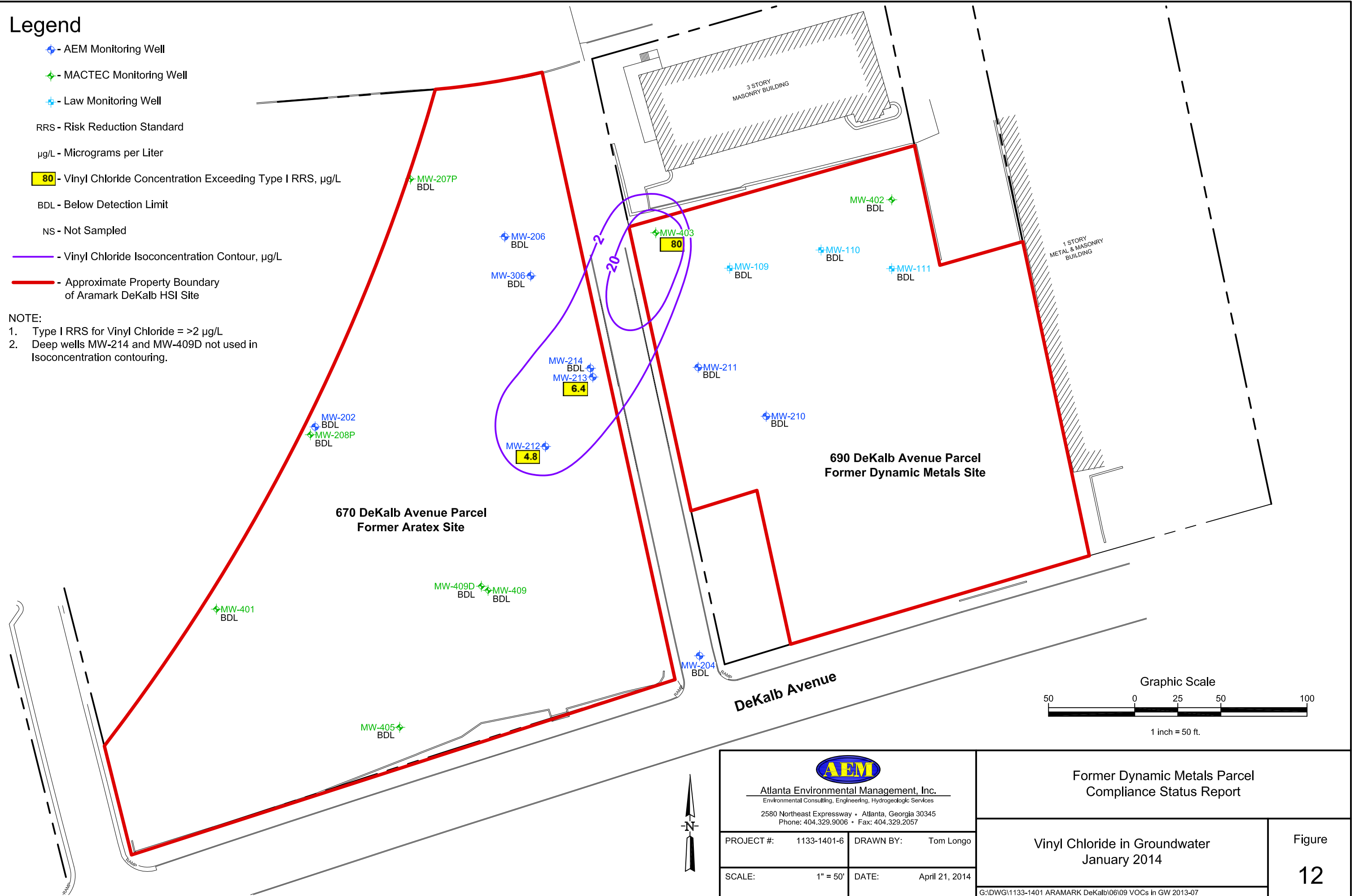
NS - Not Sampled

— - Vinyl Chloride Isoconcentration Contour, µg/L

— - Approximate Property Boundary of Aramark DeKalb HSI Site

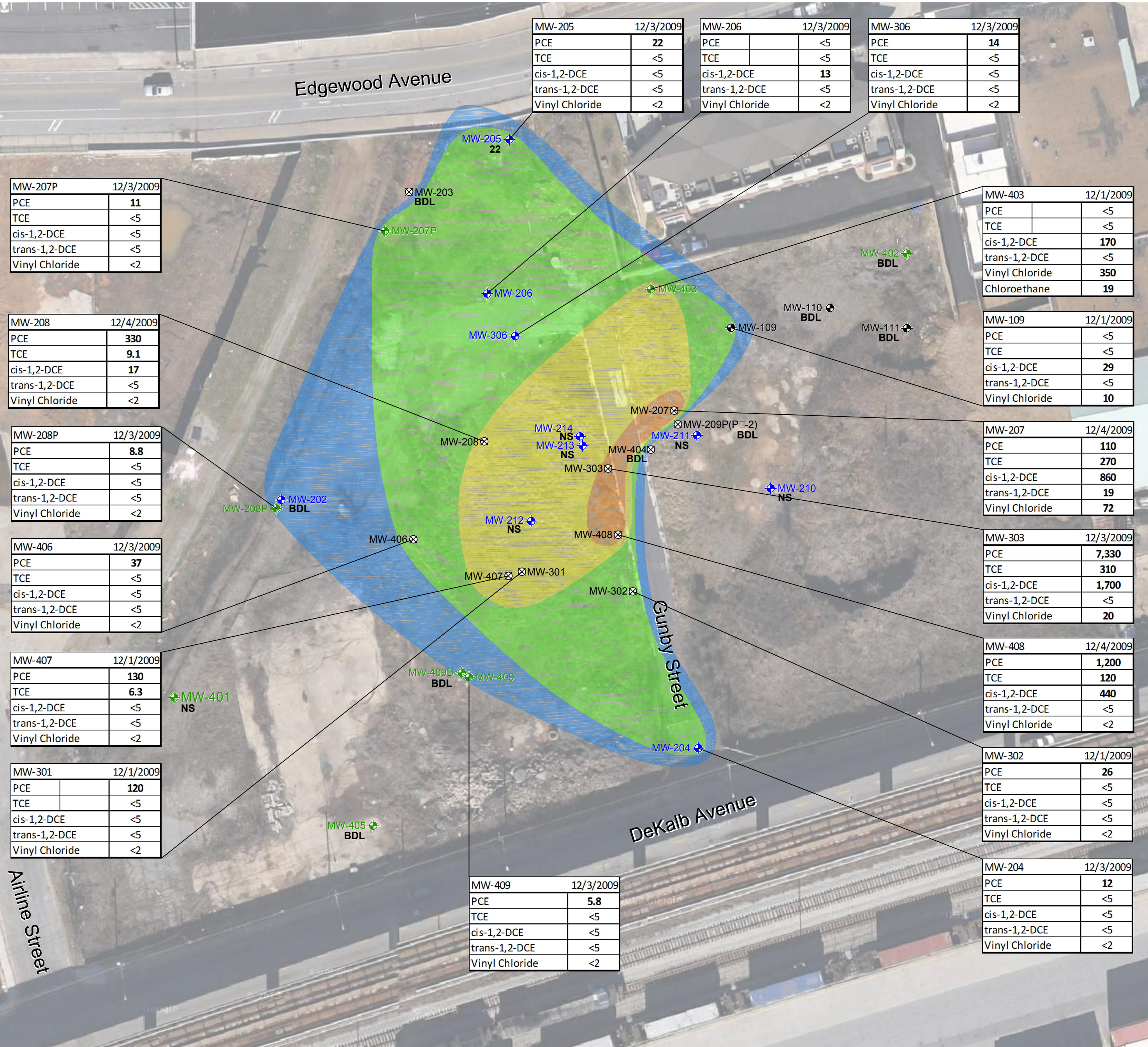
## NOTE:

1. Type I RRS for Vinyl Chloride =  $>2 \mu\text{g/L}$
2. Deep wells MW-214 and MW-409D not used in Isoconcentration contouring.

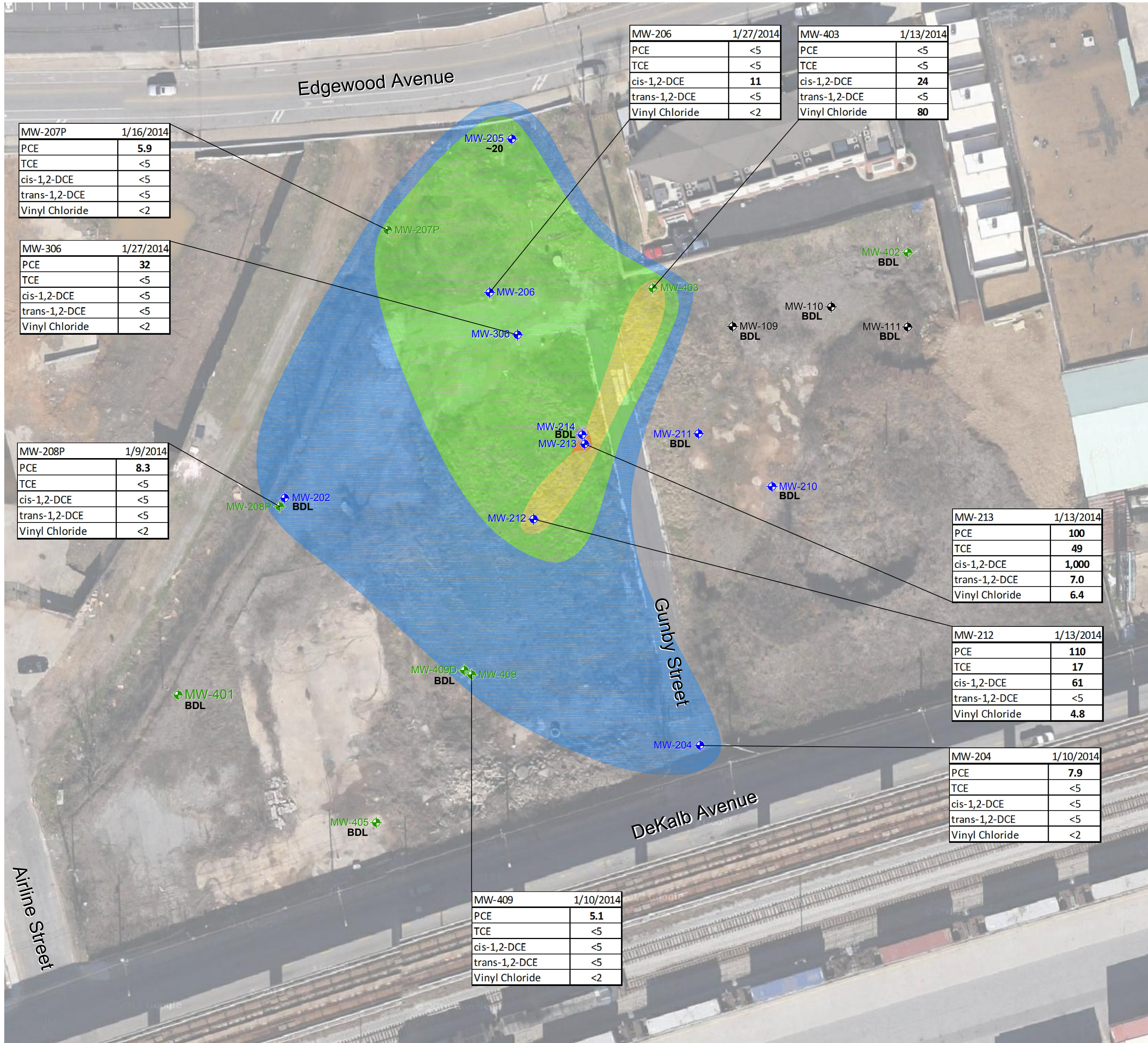


<p><b>AEM</b></p> <p>Atlanta Environmental Management, Inc.</p> <p>Environmental Consulting, Engineering, Hydrogeologic Services</p> <p>2580 Northeast Expressway • Atlanta, Georgia 30345</p> <p>Phone: 404.329.9006 • Fax: 404.329.2057</p>		<p>Former Dynamic Metals Parcel</p> <p>Compliance Status Report</p>	
PROJECT #:	1133-1401-6	DRAWN BY:	Tom Longo
SCALE:	1" = 50'	DATE:	April 21, 2014
		<p>Vinyl Chloride in Groundwater</p> <p>January 2014</p>	
		<p>G:\DWG\1133-1401 ARAMARK DeKalb\06\09 VOCs in GW 2013-07</p>	
			<p>Figure</p> <p><b>12</b></p>





Pre-Soil Blending (December 2009)



Post-Soil Blending (January 2014)



---

**ATTACHMENT A**  
**Groundwater Elevation Data, 2001–2014**

Attachment A. Groundwater Elevation Data  
2001-2014  
ARAMARK Dekalb Site, Atlanta, GA

Observation Well:	MW-101		MW-102		MW-103		MW-103D		MW-104		MW-106		MW-107		MW-108		MW-109	
Installation Date:	4/24/2001		4/23/2001		4/24/2001		4/17/2003		8/13/2001		8/15/20011		8/14/2001		8/15/2001		8/16/2001	
Monitored Zone:	Shallow Residuuum		Shallow Residuuum		Shallow Residuuum		Deep Residuuum		Shallow Residuuum		Shallow Residuuum		Shallow Residuuum		Shallow Residuuum		Shallow Residuuum	
Elevation, ft. AMSL <sup>1,2,3</sup> :																		
Access Port/Well Casing Elevation, ft. AMSL <sup>1</sup> :	1,016.046		1,011.856		1,009.956		1,009.251		1,013.746		1,014.141		1,014.191		1,013.591		1,012.741	
Well Screen Interval	989.08-988.08		988.92-978.92		994.21-984.21		944.25-934.25		999.25-989.25		1003.97-988.97		1004.02-989.02		998.42-988.42		1001.94-991.94	
	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-
	Water,	Water	Water,	Water	Water,	Water	Water,	Water	Water,	Water	Water,	Water	Water,	Water	Water,	Water	Water,	Water
	feet	Elevation,	feet	Elevation,	feet	Elevation,	feet	Elevation,	feet	Elevation,	feet	Elevation,	feet	Elevation,	feet	Elevation,	feet	Elevation,
		ft. AMSL		ft. AMSL		ft. AMSL		ft. AMSL		ft. AMSL		ft. AMSL		ft. AMSL		ft. AMSL		ft. AMSL
Date																		
08/17/01	13.96	1,002.09	10.47	1,001.39	8.72	1,001.24	NI	NM	13.67	1,000.08	13.48	1,000.66	12.14	1,002.05	12.29	1,001.30	11.38	1,001.36
03/04/03	13.65	1,002.40	10.31	1,001.55	8.42	1,001.54	NI	NM	11.82	1,001.93	11.24	1,002.90	11.28	1,002.91	11.55	1,002.04	10.76	1,001.98
04/22/03	13.15	1,002.90	9.84	1,002.02	7.84	1,002.12	7.50	1,001.75	11.46	1,002.29	10.81	1,003.33	10.87	1,003.32	11.18	1,002.41	10.28	1,002.46
05/02/03	13.19	1,002.86	9.95	1,001.91	7.87	1,002.09	7.60	1,001.65	11.36	1,002.39	10.64	1,003.50	10.62	1,003.57	11.06	1,002.53	10.48	1,002.26
05/07/03	9.86	1,006.19	8.86	1,003.00	6.59	1,003.37	6.30	1,002.95	10.89	1,002.86	10.45	1,003.69	10.26	1,003.93	10.73	1,002.86	9.61	1,003.13
05/16/03	8.22	1,007.83	8.66	1,003.20	6.42	1,003.54	6.42	1,002.83	10.66	1,003.09	10.20	1,003.94	10.01	1,004.18	10.51	1,003.08	9.50	1,003.24
12/17/03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
04/06/04	14.16	1,001.89	10.65	1,001.21	8.67	1,001.29	8.43	1,000.82	12.18	1,001.57	11.54	1,002.60	11.66	1,002.53	11.89	1,001.70	11.28	1,001.46
07/27/04	12.34	1,003.71	9.92	1,001.94	7.85	1,002.11	9.01	1,000.24	12.20	1,001.55	NM	NM	12.19	1,002.00	11.88	1,001.71	NM	NM
07/12/05	7.20	1,008.85	7.21	1,004.65	NM	NM	4.91	1,004.34	9.85	1,003.90	NM	NM	9.60	1,004.59	9.81	1,003.78	8.70	1,004.04
09/07/05	12.62	1,003.43	9.57	1,002.29	NM	NM	7.12	1,002.13	10.66	1,003.09	NM	NM	10.65	1,003.54	10.66	1,002.93	10.40	1,002.34
09/19/05	13.45	1,002.60	9.81	1,002.05	NM	NM	7.67	1,001.58	11.29	1,002.46	NM	NM	11.08	1,003.11	10.88	1,002.71	10.76	1,001.98
10/11/05	12.54	1,003.51	9.54	1,002.32	NM	NM	7.02	1,002.23	11.32	1,002.43	NM	NM	NM	NM	NM	NM	10.56	1,002.18
12/13/05	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
12/20/05	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	11.52	1,002.23	NM	NM	11.56	1,002.63	11.50	1,002.09	10.74	1,002.00
01/25/06	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	11.47	1,002.28	11.21	1,002.93	11.26	1,002.93	11.20	1,002.39	10.05	1,002.69
04/10/06	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	11.65	1,002.10	10.98	1,003.16	11.09	1,003.10	11.40	1,002.19	11.09	1,001.65
05/15/06	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	11.86	1,001.89	11.24	1,002.90	11.34	1,002.85	11.55	1,002.04	11.11	1,001.63
08/14/06	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	NM	NM	NM	NM	12.01	1,000.73
11/07/06	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	NM	NM	NM	NM	12.33	1,000.41
02/07/07	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	NM	NM	NM	NM	11.70	1,001.04
05/30/07	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	NM	NM	NM	NM	12.75	999.99
09/17/07	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	NM	NM	NM	NM	13.72	999.02
12/04/07	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	NM	NM	NM	NM	14.51	998.23
03/05/08	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	NM	NM	NM	NM	12.82	999.92
06/04/08	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	NM	NM	NM	NM	12.76	999.98
09/09/08	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	NM	NM	NM	NM	13.64	999.10
08/07/09	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	NM	NM	NM	NM	13.80	998.94
11/30/09	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	NM	NM	NM	NM	10.52	1,002.22
02/18/11	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	NM	NM	NM	NM	11.50	1,001.24
05/31/11	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	NM	NM	NM	NM	11.16	1,001.58
10/08/12	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	NM	NM	NM	NM	13.02	999.72
06/03/13	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
07/17/13	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	NM	NM	NM	NM	10.26	1,002.48
01/06/14	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	NM	NM	NM	NM	10.00	1,002.74

Notes: See last page of table.

Attachment A. Groundwater Elevation Data  
2001-2014  
ARAMARK Dekalb Site, Atlanta, GA

Observation Well:	MW-110		MW-111		MW-201		MW-202		MW-203		MW-204		MW-205		MW-206		MW-207	
Installation Date:	8/16/2001		8/15/2001		4/14/2003		4/14/2003		4/15/2003		5/2/2003		3/31/2004		7/23/2004		4/3/2006	
Monitored Zone:	Shallow Residuum		Shallow Residuum		Shallow Residuum		Shallow Residuum		Shallow Residuum		Shallow Residuum		Shallow Residuum		Shallow Residuum		Shallow Residuum	
Elevation, ft. AMSL <sup>1,2,3</sup> :																		
Access Port/Well Casing Elevation, ft. AMSL <sup>1</sup> :	1,013.106		1,013.726		1,015.766		1,012.686		1,009.221		1,015.101		1,009.911		1,008.446		1,013.191	
Well Screen Interval	997.94-990.94		1003.73-988.73		1001.94-991.94		1000.69-990.69		994.22-984.22		1005.51-990.51		1002.90-992.90		1003.95-993.95		995.54-985.54	
	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-
	Water,	Water	Water,	Water	Water,	Water	Water,	Water	Water,	Water	Water,	Water	Water,	Water	Water,	Water	Water,	Water
	feet	Elevation,	feet	Elevation,	feet	Elevation,	feet	Elevation,	feet	Elevation,	feet	Elevation,	feet	Elevation,	feet	Elevation,	feet	Elevation,
		ft. AMSL		ft. AMSL		ft. AMSL		ft. AMSL		ft. AMSL		ft. AMSL		ft. AMSL		ft. AMSL		ft. AMSL
Date																		
08/17/01	11.62	1,001.49	NM	NM	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
03/04/03	10.68	1,002.43	NM	NM	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
04/22/03	10.09	1,003.02	NM	NM	12.56	1,003.21	7.66	1,005.03	6.47	1,002.75	NI	NI	NI	NI	NI	NI	NI	NI
05/02/03	10.19	1,002.92	NM	NM	12.36	1,003.41	8.08	1,004.61	7.79	1,001.43	NI	NI	NI	NI	NI	NI	NI	NI
05/07/03	9.13	1,003.98	NM	NM	11.58	1,004.19	6.09	1,006.60	4.28	1,004.94	11.77	1,003.33	NI	NM	NI	NI	NI	NI
05/16/03	8.75	1,004.36	NM	NM	11.29	1,004.48	6.01	1,006.68	4.27	1,004.95	11.55	1,003.55	NI	NM	NI	NI	NI	NI
12/17/03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NI	NM	NI	NI	NI	NI
04/06/04	11.15	1,001.96	NM	NM	13.35	1,002.42	9.09	1,003.60	8.02	1,001.20	13.49	1,001.61	9.21	1,000.70	NI	NI	NI	NI
07/27/04	11.20	1,001.91	NM	NM	12.80	1,002.97	7.61	1,005.08	5.80	1,003.42	13.32	1,001.78	7.07	1,002.84	13.49	994.96	NI	NI
07/12/05	8.51	1,004.60	NM	NM	8.48	1,007.29	4.22	1,008.47	3.41	1,005.81	10.25	1,004.85	4.46	1,005.45	NM	NM	NI	NI
09/07/05	10.10	1,003.01	NM	NM	11.46	1,004.31	7.53	1,005.16	5.62	1,003.60	12.11	1,002.99	8.93	1,000.98	3.85	1,004.60	NI	NI
09/19/05	10.47	1,002.64	NM	NM	12.02	1,003.75	8.19	1,004.50	6.45	1,002.77	12.50	1,002.60	9.50	1,000.41	4.32	1,004.13	NI	NI
10/11/05	NM	NM	NM	NM	11.52	1,004.25	NM	NM	NM	NM	12.36	1,002.74	NM	NM	NM	NM	NI	NI
12/13/05	NM	NM	NM	NM	ABN	ABN	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NI	NI
12/20/05	10.96	1,002.15	NM	NM	ABN	ABN	7.57	1,005.12	6.98	1,002.24	12.89	1,002.21	9.05	1,000.86	NM	NM	NI	NI
01/25/06	10.47	1,002.64	NM	NM	ABN	ABN	6.33	1,006.36	4.83	1,004.39	12.39	1,002.71	6.49	1,003.42	4.07	1,004.38	NI	NI
04/10/06	10.60	1,002.51	10.57	1,002.54	ABN	ABN	8.48	1,004.21	7.88	1,001.34	12.95	1,002.15	11.59	998.32	5.44	1,003.01	11.50	1,001.69
05/15/06	10.83	1,002.28	11.15	1,001.96	ABN	ABN	8.45	1,004.24	7.58	1,001.64	13.17	1,001.93	11.21	998.70	7.07	1,001.38	11.55	1,001.64
08/14/06	12.00	1,001.11	NM	NM	ABN	ABN	9.22	1,003.47	NM	NM	14.12	1,000.98	11.30	998.61	6.94	1,001.51	12.40	1,000.79
11/07/06	NM	NM	NM	NM	ABN	ABN	9.55	1,003.14	8.28	1,000.94	14.29	1,000.81	11.72	998.19	7.38	1,001.07	12.64	1,000.55
02/07/07	11.72	1,001.39	NM	NM	ABN	ABN	9.08	1,003.61	7.64	1,001.58	13.69	1,001.41	11.11	998.80	7.60	1,000.85	12.00	1,001.19
05/30/07	12.61	1,000.50	NM	NM	ABN	ABN	10.53	1,002.16	9.25	999.97	14.75	1,000.35	13.06	996.85	8.33	1,000.12	13.15	1,000.04
09/17/07	13.79	999.32	NM	NM	ABN	ABN	10.56	1,002.13	9.46	999.76	15.91	999.19	11.89	998.02	5.43	1,003.02	13.77	999.42
12/04/07	14.57	998.54	NM	NM	ABN	ABN	12.19	1,000.50	10.42	998.80	17.63	997.47	13.91	996.00	9.93	998.52	14.85	998.34
03/05/08	13.40	999.71	NM	NM	ABN	ABN	9.16	1,003.53	7.23	1,001.99	14.98	1,000.12	10.18	999.73	10.17	998.28	9.10	1,004.09
06/04/08	12.78	1,000.33	NM	NM	ABN	ABN	10.31	1,002.38	8.70	1,000.52	14.90	1,000.20	12.21	997.70	7.61	1,000.84	13.41	999.78
09/09/08	13.86	999.25	NM	NM	ABN	ABN	10.74	1,001.95	9.33	999.89	15.74	999.36	12.92	996.99	7.97	1,000.48	13.91	999.28
08/07/09	NM	NM	NM	NM	ABN	ABN	NM	NM	NM	NM	15.03	1,000.07	12.64	997.27	NM	NM	13.09	1,000.10
11/30/09	10.56	1,002.55	10.91	1,002.20	ABN	ABN	7.53	1,005.16	6.28	1,002.94	12.47	1,002.63	10.12	999.79	6.98	1,001.47	10.66	1,002.53
02/18/11	11.58	1,001.53	11.92	1,001.19	ABN	ABN	8.95	1,003.74	7.68	1,001.54	13.56	1,001.54	10.81	999.10	6.81	1,001.64	ABN	ABN
05/31/11	10.97	1,002.14	11.29	1,001.82	ABN	ABN	8.51	1,004.18	7.19	1,002.03	13.16	1,001.94	10.31	999.60	7.92	1,000.53	ABN	ABN
10/08/12	12.96	1,000.15	NM	NM	ABN	ABN	NM	NM	NM	NM	15.20	999.90	11.24	998.67	8.92	999.53	ABN	ABN
06/03/13	NM	NM	NM	NM	ABN	ABN	NM	NM	NM	NM	NM	NM	ABN	ABN	NM	NM	ABN	ABN
07/17/13	10.09	1,003.02	10.40	1,002.71	ABN	ABN	6.50	1,006.19	NM	NM	12.45	1,002.65	ABN	ABN	4.91	1,003.54	ABN	ABN
01/06/14	10.09	1,003.02	10.36	1,002.75	ABN	ABN	6.44	1,006.25	NM	NM	12.27	1,002.83	ABN	ABN	4.51	1,003.94	ABN	ABN

Notes: See last page of table.

Attachment A. Groundwater Elevation Data  
2001-2014  
ARAMARK Dekalb Site, Atlanta, GA

Observation Well:	MW-207P		MW-208		MW-208P		MW-209P(PZ-2)		MW-210		MW-211		MW-212		MW-213 <sup>3</sup>	
Installation Date:	NA		4/3/2006		NA		NA		5/22/2013		5/22/2013		5/22/2013		5/22/2013	
Monitored Zone:	Shallow Residuuum		Shallow Residuuum		Shallow Residuuum		Shallow Residuuum		Shallow Residuuum		Shallow Residuuum		Shallow Residuuum		Shallow Residuuum	
Elevation, ft. AMSL <sup>1,2,3</sup> :																
Access Port/Well Casing Elevation, ft. AMSL <sup>1</sup> :	1,009.400		1,011.566		1,013.000		1,013.200		1,016.230		1,016.370		1,014.060		1,009.790	
Well Screen Interval	999.40-989.40		992.39-982.39		1009.74-999.74		1008.78-998.78		1003.28-993.28		1005.37-995.37		1006.56-996.56		1002.79-992.79	
	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-
	Water,	Water	Water,	Water	Water,	Water	Water,	Water	Water,	Water	Water,	Water	Water,	Water	Water,	Water
	feet	Elevation,	feet	Elevation,	feet	Elevation,	feet	Elevation,	feet	Elevation,	feet	Elevation,	feet	Elevation,	feet	Elevation,
Date		ft. AMSL		ft. AMSL		ft. AMSL		ft. AMSL		ft. AMSL		ft. AMSL		ft. AMSL		ft. AMSL
08/17/01	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
03/04/03	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
04/22/03	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
05/02/03	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
05/07/03	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
05/16/03	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
12/17/03	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
04/06/04	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
07/27/04	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
07/12/05	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
09/07/05	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
09/19/05	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
10/11/05	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
12/13/05	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
12/20/05	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
01/25/06	NI	NI	NI	NI	NI	NI	9.65	1,003.55	NI	NI	NI	NI	NI	NI	NI	NI
04/10/06	NI	NI	9.30	1,002.27	NI	NM	11.03	1,002.17	NI	NI	NI	NI	NI	NI	NI	NI
05/15/06	7.30	1,002.10	9.31	1,002.26	8.31	1,004.69	10.91	1,002.29	NI	NI	NI	NI	NI	NI	NI	NI
08/14/06	NM	NM	10.19	1,001.38	9.02	1,003.98	12.08	1,001.12	NI	NI	NI	NI	NI	NI	NI	NI
11/07/06	7.99	1,001.41	10.41	1,001.16	8.75	1,004.25	12.41	1,000.79	NI	NI	NI	NI	NI	NI	NI	NI
02/07/07	8.21	1,001.19	9.68	1,001.89	8.25	1,004.75	11.14	1,002.06	NI	NI	NI	NI	NI	NI	NI	NI
05/30/07	9.13	1,000.27	11.20	1,000.37	9.76	1,003.24	13.03	1,000.17	NI	NI	NI	NI	NI	NI	NI	NI
09/17/07	7.22	1,002.18	11.71	999.86	9.42	1,003.58	13.97	999.23	NI	NI	NI	NI	NI	NI	NI	NI
12/04/07	9.95	999.45	12.82	998.75	12.82	1,000.18	14.74	998.46	NI	NI	NI	NI	NI	NI	NI	NI
03/05/08	4.98	1,004.42	10.12	1,001.45	6.98	1,006.02	10.33	1,002.87	NI	NI	NI	NI	NI	NI	NI	NI
06/04/08	8.73	1,000.67	10.80	1,000.77	9.46	1,003.54	12.86	1,000.34	NI	NI	NI	NI	NI	NI	NI	NI
09/09/08	9.36	1,000.04	11.93	999.64	10.03	1,002.97	13.74	999.46	NI	NI	NI	NI	NI	NI	NI	NI
08/07/09	NM	NM	NM	NM	NM	NM	NM	NM	NI	NI	NI	NI	NI	NI	NI	NI
11/30/09	5.55	1,003.85	8.34	1,003.23	7.36	1,005.64	9.59	1,003.61	NI	NI	NI	NI	NI	NI	NI	NI
02/18/11	7.21	1,002.19	ABN	ABN	8.18	1,004.82	ABN	ABN	NI	NI	NI	NI	NI	NI	NI	NI
05/31/11	6.46	1,002.94	ABN	ABN	7.90	1,005.10	ABN	ABN	NI	NI	NI	NI	NI	NI	NI	NI
10/08/12	7.05	1,002.35	ABN	ABN	NM	NM	ABN	ABN	NI	NI	NI	NI	NI	NI	NI	NI
06/03/13	NM	NM	ABN	ABN	NM	NM	ABN	ABN	13.56	1,002.67	13.21	1,003.16	10.18	1,003.88	10.29	999.50
07/17/13	3.98	1,005.42	ABN	ABN	7.90	1,005.10	ABN	ABN	13.36	1,002.87	12.45	1,003.92	9.99	1,004.07	6.76	1,003.03
01/06/14	1.74	1,007.66	ABN	ABN	5.13	1,007.87	ABN	ABN	13.25	1,002.98	11.76	1,004.61	9.91	1,004.15	6.51	1,003.28

Notes: See last page of table.

Attachment A. Groundwater Elevation Data  
2001-2014  
ARAMARK Dekalb Site, Atlanta, GA

Observation Well:	MW-214 <sup>3</sup>				MW-301		MW-302		MW-303		MW-306		MW-401		MW-402		MW-403		MW-404	
Installation Date:	5/22/2013				4/4/2006		4/4/2006		4/4/2006		4/3/2006		4/13/2006		4/13/2006		4/13/2006		4/14/2006	
Monitored Zone:	Deep Residuuum				Shallow Residuuum		Shallow Residuuum		Shallow Residuuum		Shallow Residuuum		Shallow Residuuum		Shallow Residuuum		Shallow Residuuum		Shallow Residuuum	
Elevation, ft. AMSL <sup>1,2,3</sup> :																				
Access Port/Well Casing. Elevation, ft. AMSL <sup>1</sup> :	1,009.400				1,012.600		1,011.911		1,009.386		1,008.496		1,013.690		1,016.210		1,015.220		1,009.130	
Well Screen Interval	944.90-934.90				994.62-984.62		991.94-981.94		990.41-980.41		987.83-977.83		1007.74-997.74		1006.74-996.74		1002.61-992.61		1005.20-995.20	
	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-
	Water,	Water	Water,	Water	Water,	Water	Water,	Water	Water,	Water	Water,	Water	Water,	Water	Water,	Water	Water,	Water,	Water,	Water
	Elevation,	Elevation,	Elevation,	Elevation,	Elevation,	Elevation,	Elevation,	Elevation,	Elevation,	Elevation,	Elevation,	Elevation,	Elevation,	Elevation,	Elevation,	Elevation,	Elevation,	Elevation,	Elevation,	Elevation,
	ft. AMSL	ft. AMSL	ft. AMSL	ft. AMSL	ft. AMSL	ft. AMSL	ft. AMSL	ft. AMSL	ft. AMSL	ft. AMSL	ft. AMSL	ft. AMSL	ft. AMSL	ft. AMSL	ft. AMSL	ft. AMSL	ft. AMSL	ft. AMSL	ft. AMSL	ft. AMSL
Date																				
08/17/01	NI	NI	NI	NI	NI	NI	NM	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
03/04/03	NI	NI	NI	NI	NI	NI	NM	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
04/22/03	NI	NI	NI	NI	NI	NI	NM	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
05/02/03	NI	NI	NI	NI	NI	NI	NM	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
05/07/03	NI	NI	NI	NI	NI	NI	NM	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
05/16/03	NI	NI	NI	NI	NI	NI	NM	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
12/17/03	NI	NI	NI	NI	NI	NI	NM	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
04/06/04	NI	NI	NI	NI	NI	NI	NM	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
07/27/04	NI	NI	NI	NI	NI	NI	NM	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
07/12/05	NI	NI	NI	NI	NI	NI	NM	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
09/07/05	NI	NI	NI	NI	NI	NI	NM	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
09/19/05	NI	NI	NI	NI	NI	NI	NM	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
10/11/05	NI	NI	NI	NI	NI	NI	NM	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
12/13/05	NI	NI	NI	NI	NI	NI	NM	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
12/20/05	NI	NI	NI	NI	NI	NI	NM	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
01/25/06	NI	NI	NI	NI	NI	NI	NM	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
04/10/06	NI	NI	10.40	1,002.20	10.37	1,001.54	7.73	1,001.66	7.50	1,001.00	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
05/15/06	NI	NI	10.49	1,002.11	10.46	1,001.45	7.79	1,001.60	7.48	1,001.02	7.70	1,005.99	13.82	1,002.39	14.88	1,000.34	5.77	1,003.36		
08/14/06	NI	NI	11.31	1,001.29	10.99	1,000.92	8.65	1,000.74	8.19	1,000.31	8.66	1,005.03	15.06	1,001.15	15.54	999.68	7.46	1,001.67		
11/07/06	NI	NI	11.46	1,001.14	11.13	1,000.78	8.79	1,000.60	8.41	1,000.09	8.83	1,004.86	15.37	1,000.84	15.70	999.52	7.15	1,001.98		
02/07/07	NI	NI	10.96	1,001.64	10.77	1,001.14	8.28	1,001.11	8.41	1,000.09	NM	NM	14.82	1,001.39	15.11	1,000.11	6.28	1,002.85		
05/30/07	NI	NI	12.17	1,000.43	11.62	1,000.29	9.38	1,000.01	9.14	999.36	NM	NM	15.65	1,000.56	16.38	998.84	8.78	1,000.35		
09/17/07	NI	NI	12.96	999.64	12.35	999.56	10.13	999.26	9.47	999.03	NM	NM	16.86	999.35	16.87	998.35	10.25	998.88		
12/04/07	NI	NI	13.86	998.74	13.36	998.55	11.06	998.33	10.57	997.93	NM	NM	NM	NM	17.75	997.47	11.63	997.50		
03/05/08	NI	NI	11.91	1,000.69	11.68	1,000.23	9.45	999.94	8.26	1,000.24	NM	NM	16.50	999.71	15.59	999.63	5.86	1,003.27		
06/04/08	NI	NI	12.05	1,000.55	11.55	1,000.36	9.35	1,000.04	8.82	999.68	NM	NM	15.82	1,000.39	16.19	999.03	8.56	1,000.57		
09/09/08	NI	NI	13.03	999.57	12.34	999.57	10.02	999.37	9.42	999.08	NM	NM	16.94	999.27	16.81	998.41	10.34	998.79		
08/07/09	NI	NI	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	16.31	998.91	NM	NM		
11/30/09	NI	NI	9.76	1,002.84	9.74	1,002.17	7.11	1,002.28	6.58	1,001.92	NM	NM	13.61	1,002.60	14.04	1,001.18	5.82	1,003.31		
02/18/11	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	7.91	1,000.59	NM	NM	14.62	1,001.59	15.23	999.99	ABN	ABN		
05/31/11	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	7.86	1,000.64	NM	NM	14.02	1,002.19	14.82	1,000.40	ABN	ABN		
10/08/12	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	16.19	1,000.02	16.52	998.70	ABN	ABN		
06/03/13	10.85	998.55	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	NM	NM	NM	NM	ABN	ABN		
07/17/13	7.35	1,002.05	ABN	ABN	ABN	ABN	ABN	ABN	6.90	1,001.60	5.69	1,008.00	13.04	1,003.17	14.45	1,000.77	ABN	ABN		
01/06/14	6.91	1,002.49	ABN	ABN	ABN	ABN	ABN	ABN	6.04	1,002.46	6.11	1,007.58	13.04	1,003.17	13.39	1,001.83	ABN	ABN		

Notes: See last page of table.

Attachment A. Groundwater Elevation Data  
2001-2014  
ARAMARK Dekalb Site, Atlanta, GA

Observation Well:	MW-405		MW-406		MW-407		MW-408		MW-409		MW-409D		PZ-1		TW-1		TW-2	
Installation Date:	4/14/2006		4/18/2007		4/18/2007		4/18/2007		4/19/2007		4/19/2007		4/8/2003		9/17/2005		9/17/2005	
Monitored Zone:	Shallow Residuum		Shallow Residuum		Shallow Residuum		Shallow Residuum		Shallow Residuum		Deep Residuum		Shallow Residuum		Shallow Residuum		Shallow Residuum	
Elevation, ft. AMSL <sup>1,2,3</sup> :																		
Access Port/Well Casing Elevation, ft. AMSL <sup>1</sup> :	1,015.840		1,015.000		1,012.890		1,009.910		1,016.360		1,016.070		1,009.286		No Survey		No Survey	
Well Screen Interval	1007.24-997.24		1002.74-992.74		1003.41-993.41		1003.91-993.91		1006.07-996.07		978.37-985.37		1004.31-989.31		NA		NA	
	Depth to Water, feet	Ground-Water Elevation, ft. AMSL	Depth to Water, feet	Ground-Water Elevation, ft. AMSL	Depth to Water, feet	Ground-Water Elevation, ft. AMSL	Depth to Water, feet	Ground-Water Elevation, ft. AMSL	Depth to Water, feet	Ground-Water Elevation, ft. AMSL	Depth to Water, feet	Ground-Water Elevation, ft. AMSL	Depth to Water, feet	Ground-Water Elevation, ft. AMSL		Ground-Water Elevation, ft. AMSL	Depth to Water, feet	Ground-Water Elevation, ft. AMSL
Date																		
08/17/01	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NM	NI	NI	NI	NI	NI
03/04/03	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
04/22/03	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	4.48	1,004.81	NI	NI	NI
05/02/03	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	5.83	1,003.46	NI	NI	NI
05/07/03	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	2.02	1,007.27	NI	NI	NI
05/16/03	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NM	NM	NI	NI	NI
12/17/03	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NM	NM	NI	NI	NI
04/06/04	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	7.30	1,001.99	NI	NI	NI
07/27/04	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	3.97	1,005.32	NI	NI	NI
07/12/05	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	1.83	1,007.46	NI	NI	NI
09/07/05	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	6.59	1,002.70	14.04	No survey	14.31
09/19/05	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	7.20	1,002.09	14.37	No survey	13.11
10/11/05	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NM	NM	13.69	No survey	12.90
12/13/05	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NM	NM	ABN	ABN	ABN
12/20/05	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	5.43	1,003.86	ABN	ABN	ABN
01/25/06	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	2.83	1,006.46	ABN	ABN	ABN
04/10/06	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN
05/15/06	12.56	1,003.28	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN
08/14/06	NM	NM	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN
11/07/06	13.85	1,001.99	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN
02/07/07	13.34	1,002.50	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN
05/30/07	14.75	1,001.09	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	ABN	ABN	ABN	ABN	ABN
09/17/07	15.67	1,000.17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	ABN	ABN	ABN	ABN	ABN
12/04/07	16.62	999.22	15.39	999.61	14.09	998.80	11.35	998.56	17.32	999.04	17.00	999.07	ABN	ABN	ABN	ABN	ABN	ABN
03/05/08	14.75	1,001.09	12.61	1,002.39	12.17	1,000.72	6.33	1,003.58	15.32	1,001.04	15.00	1,001.07	ABN	ABN	ABN	ABN	ABN	ABN
06/04/08	14.66	1,001.18	13.46	1,001.54	12.30	1,000.59	9.46	1,000.45	15.46	1,000.90	15.15	1,000.92	ABN	ABN	ABN	ABN	ABN	ABN
09/09/08	15.25	1,000.59	14.00	1,001.00	12.99	999.90	10.32	999.59	15.79	1,000.57	16.10	999.97	ABN	ABN	ABN	ABN	ABN	ABN
08/07/09	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	ABN	ABN	ABN	ABN	ABN	ABN
11/30/09	11.72	1,004.12	10.81	1,004.19	9.85	1,003.04	7.56	1,002.35	12.82	1,003.54	12.62	1,003.45	ABN	ABN	ABN	ABN	ABN	ABN
02/18/11	13.14	1,002.70	ABN	ABN	ABN	ABN	ABN	ABN	14.08	1,002.28	13.80	1,002.27	ABN	ABN	ABN	ABN	ABN	ABN
05/31/11	12.65	1,003.19	ABN	ABN	ABN	ABN	ABN	ABN	13.60	1,002.76	13.34	1,002.73	ABN	ABN	ABN	ABN	ABN	ABN
10/08/12	NM	NM	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	ABN	ABN	ABN	ABN	ABN	ABN
06/03/13	NM	NM	ABN	ABN	ABN	ABN	ABN	ABN	NM	NM	NM	NM	ABN	ABN	ABN	ABN	ABN	ABN
07/17/13	11.19	1,004.65	ABN	ABN	ABN	ABN	ABN	ABN	12.39	1,003.97	12.07	1,004.00	ABN	ABN	ABN	ABN	ABN	ABN
01/06/14	11.56	1,004.28	ABN	ABN	ABN	ABN	ABN	ABN	12.46	1,003.90	12.15	1,003.92	ABN	ABN	ABN	ABN	ABN	ABN

Notes: See last page of table.

Attachment A. Groundwater Elevation Data  
2001-2014  
ARAMARK Dekalb Site, Atlanta, GA

Observation Well:	TW-3		TMW-1		TMW-2		TMW-3		MW-1 (KEMRON)		MW-2 (KEMRON)		MW-3 (KEMRON)		ED-1	
Installation Date:	9/17/2005		8/5/2008		8/5/2008		8/5/2008		10/9/2003		10/9/2003		10/9/2003		12/7/2005	
Monitored Zone:	Shallow Residuuum		Shallow Residuuum		Shallow Residuuum		Shallow Residuuum		Shallow Residuuum		Shallow Residuuum		Shallow Residuuum		Shallow Residuuum	
Elevation, ft. AMSL <sup>1,2,3</sup> :															1028.59	
Access Port/Well Casing:	No Survey		No Survey		No Survey		No Survey		No Survey		No Survey		No Survey			
Elevation, ft. AMSL <sup>1</sup> :																
Well Screen Interval	NA		NA		NA		NA		NA		NA		NA		1006.09-996.09	
Date	Depth to Water, feet	Ground-Water Elevation, ft. AMSL	Depth to Water, feet	Ground-Water Elevation, ft. AMSL	Depth to Water, feet	Ground-Water Elevation, ft. AMSL	Depth to Water, feet	Ground-Water Elevation, ft. AMSL	Depth to Water, feet	Ground-Water Elevation, ft. AMSL	Depth to Water, feet	Ground-Water Elevation, ft. AMSL	Depth to Water, feet	Ground-Water Elevation, ft. AMSL	Depth to Water, feet	Ground-Water Elevation, ft. AMSL
08/17/01	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
03/04/03	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
04/22/03	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
05/02/03	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
05/07/03	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
05/16/03	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
12/17/03	NI	NI	NI	NI	NI	NI	NI	NI	25.63	No survey	25.56	No survey	31.14	No survey	NI	NI
04/06/04	NI	NI	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	NI	NI
07/27/04	NI	NI	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	NI	NI
07/12/05	NI	NI	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	NI	NI
09/07/05	13.85	No survey	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	NI	NI
09/19/05	14.20	No survey	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	NI	NI
10/11/05	13.41	No survey	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	NI	NI
12/13/05	ABN	ABN	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	29.11	999.48
12/20/05	ABN	ABN	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	29.88	998.71
01/25/06	ABN	ABN	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
04/10/06	ABN	ABN	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
05/15/06	ABN	ABN	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
08/14/06	ABN	ABN	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
11/07/06	ABN	ABN	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
02/07/07	ABN	ABN	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
05/30/07	ABN	ABN	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
09/17/07	ABN	ABN	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
12/04/07	ABN	ABN	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
03/05/08	ABN	ABN	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
06/04/08	ABN	ABN	NI	NI	NI	NI	NI	NI	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
09/09/08	ABN	ABN	10.2	No survey	11.61	No survey	10.90	No survey	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
08/07/09	ABN	ABN	NM	No survey	NM	No survey	NM	No survey	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
11/30/09	ABN	ABN	7.83	No survey	8.85	No survey	8.36	No survey	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
02/18/11	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
05/31/11	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
10/08/12	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
06/03/13	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
07/17/13	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
01/06/14	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN

Notes: See last page of table.

Attachment A. Groundwater Elevation Data  
2001-2014  
ARAMARK Dekalb Site, Atlanta, GA

Observation Well:	ED-2		ED-3		ED-4		ED-5	
Installation Date:	12/7/2005		12/7/2005		12/7/2005		12/7/2005	
Monitored Zone:	Shallow Residuuum		Shallow Residuuum		Shallow Residuuum		Shallow Residuuum	
Elevation, ft. AMSL <sup>1,2,3</sup> :								
Access Port/Well Casing, Elevation, ft. AMSL <sup>1</sup> :	1028.28		1028.89		1028.81		1031.50	
Well Screen Interval	1008.93-998.93		1006.19-996.19		1004.51-994.51		999.40-989.40	
	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-	Depth to	Ground-
	Water,	Water	Water,	Water	Water,	Water	Water,	Water
	feet	Elevation,	feet	Elevation,	feet	Elevation,	feet	Elevation,
		ft. AMSL		ft. AMSL		ft. AMSL		ft. AMSL
Date								
08/17/01	NI	NI	NI	NI	NI	NI	NI	NI
03/04/03	NI	NI	NI	NI	NI	NI	NI	NI
04/22/03	NI	NI	NI	NI	NI	NI	NI	NI
05/02/03	NI	NI	NI	NI	NI	NI	NI	NI
05/07/03	NI	NI	NI	NI	NI	NI	NI	NI
05/16/03	NI	NI	NI	NI	NI	NI	NI	NI
12/17/03	NI	NI	NI	NI	NI	NI	NI	NI
04/06/04	NI	NI	NI	NI	NI	NI	NI	NI
07/27/04	NI	NI	NI	NI	NI	NI	NI	NI
07/12/05	NI	NI	NI	NI	NI	NI	NI	NI
09/07/05	NI	NI	NI	NI	NI	NI	NI	NI
09/19/05	NI	NI	NI	NI	NI	NI	NI	NI
10/11/05	NI	NI	NI	NI	NI	NI	NI	NI
12/13/05	26.79	1,001.49	28.20	1,000.69	28.93	999.88	33.51	997.99
12/20/05	26.63	1,001.65	27.90	1,000.99	28.96	999.85	33.54	997.96
01/25/06	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
04/10/06	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
05/15/06	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
08/14/06	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
11/07/06	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
02/07/07	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
05/30/07	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
09/17/07	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
12/04/07	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
03/05/08	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
06/04/08	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
09/09/08	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
08/07/09	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
11/30/09	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
02/18/11	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
05/31/11	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
10/08/12	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
06/03/13	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
07/17/13	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN
01/06/14	ABN	ABN	ABN	ABN	ABN	ABN	ABN	ABN

Notes: See last page of table.



Attachment A. Groundwater Elevation Data  
2001-2014  
ARAMARK DeKalb Site, Atlanta, GA

---

- 1. Feet above mean sea level.
  - 2. Represents updated top-of-casing elevations. Monitoring wells MW-102, -201 through -205, and PZ-1 were resurveyed on July 30, 2004.
  - 3 Monitoring wells MW-213 and MW-214 were resurveyed on October 21, 2013
  - NI Well not installed.
  - NM Not measured.
  - NA Not Available
  - ABN Well Abandoned
- Note:** No potentiometric data available for: (1) DePaul monitoring wells MW-1, -2, -3, and -4 installed in August 1990 and MW-5, -6, -7, -8, and -9 installed in May 1992; (2) Pickering Environmental Consultants Geoprobe sample points BH-1. BH-2, and BH-2 completed December 2002; (3) QORE Geoprobe Borings B-1, B-2, and B-3; (4) Laws direct Push Borings DP-101, DP-201, DP-103, DP-104, and DP-105; (5) MACTEC Temp. Wells TW-34, TW-35, and TW-36

---

**ATTACHMENT B**  
**Legal Description**  
**of the 690 DeKalb Avenue Parcel**

**RECEIVED**

NOV 02 2010

CATHELENE ROBERTSON, Clerk

D.C.S.C. Fulton Co., Ga.

---

**PREPARED BY AND AFTER  
RECORDING RETURN TO:**

Brent S. Gilfedder, Esq.  
King & Spalding LLP  
1180 Peachtree Street, N.E.  
Atlanta, Georgia 30309-3521

**DEED UNDER POWER OF SALE**

THIS INDENTURE, made this 2<sup>nd</sup> day of November, 2010, by and between BRISBANE II, LLC, a Georgia limited liability company ("Grantor"), acting by and through its attorney-in-fact, ARAMARK UNIFORM & CAREER APPAREL, LLC, a Delaware limited liability company (formerly known as ARAMARK Uniform & Career Apparel, Inc., a Delaware corporation) ("Lender"), and ARAMARK UNIFORM & CAREER APPAREL, LLC, a Delaware limited liability company, having an address at 115 N. First Street, Burbank, California 91502 (herein called "Grantee;" the words "Grantor" and "Grantee" to include their respective heirs, legal representatives, successors, successors-in-title, and assigns where the context requires or permits, whether voluntary by act of the parties or involuntary by operation of law);

W I T N E S S E T H: That,

For and in consideration of the sum of TWO MILLION THREE HUNDRED THOUSAND AND NO/100 DOLLARS (\$2,300,000.00), cash in hand paid at and before the sealing and delivery of these presents, receipt of which is hereby acknowledged, Grantor has granted, bargained, sold and conveyed and by these presents does grant, bargain, sell and convey unto Grantee, its successors and assigns, the following described property, being located at 670 and 690 DeKalb Avenue, Atlanta, Georgia (collectively, the "Property");

**PARCEL 1:**

ALL THAT TRACT OR PARCEL OF LAND lying and being in Land Lot 20 of the 14<sup>th</sup> District of Fulton County, Georgia and being designated as Parcel 1 according to an ALTA/ACSM Survey for Brisbane II, LLC, First American Title Insurance Company, and ARAMARK Uniform & Career Apparel, Inc. prepared by Metro Engineering and Surveying Co., Inc. by Alexander Zeiger, Georgia Registered Land Surveyor No. 2530, dated June 17, 2005, last revised June 22, 2005 and being more particularly described as follows:

BEGINNING at a point marked by an iron pin placed located at the intersection of the westerly right-of-way line of Gumby Street (also known as "Gunby Street") (30' R/W) and the northerly right-of-way line of DeKalb Avenue (R/W Varies), run thence along the northerly right-of-way line of DeKalb Avenue following the arc of a curve an arc distance of 332.65 feet, said arc having a radius of 13,560.50 feet and being subtended by a chord bearing and distance of South 75 degrees 29 minutes and 26 seconds West 332.64 feet to a point marked by an iron pin placed located at the intersection of the aforementioned right-of-way line of DeKalb Avenue with the easterly right-of-way line of Airline Street (formerly Ella Place); continuing along the aforesaid right-of-way line of Airline Street, run thence North 13 degrees 23 minutes 46 seconds West a distance of 71.19 feet to a point marked by an iron pin placed; leaving the aforesaid right-of-way line of Airline Street, run thence following the arc of a curve to the left an arc distance of 413.25 feet, said arc having a radius of 614.49 feet and being subtended by a chord bearing and distance of North 30 degrees 25 minutes 38 second East 405.51 feet to a point marked by an iron pin placed located on the southerly right-of-way line of Edgewood Avenue (R/W Varies); continuing thence along the aforesaid right-of-way line of Edgewood Avenue following the arc of a curve an arc distance of 62.69 feet, said arc having a radius of 242.31 feet and being subtended by a chord bearing and distance of North 82 degrees 24 minutes 13 seconds East 62.52 feet to a point marked by an iron pin placed located on the westerly right-of-way line of Gumby Street; continuing along the aforesaid right-of-way line of Gumby Street run thence South 11 degrees 41 minutes 46 seconds East a distance of 351.13 feet to a point marked by an iron pin placed located at the intersection of the westerly right-of-way line of Gumby Street with the northerly right-of-way line of DeKalb Avenue, said point being the TRUE PLACE OR POINT OF BEGINNING.

Said parcel contains 1.637 acres.

**TOGETHER WITH:**

**PARCEL 2:**

ALL THAT TRACT OR PARCEL OF LAND lying and being in Land Lot 20 of the 14<sup>th</sup> District of Fulton County, Georgia and being designated as Parcel 2 according to an ALTA/ACSM Survey for Brisbane II, LLC, First American Title Insurance Company, and ARAMARK Uniform & Career Apparel, Inc. prepared by Metro Engineering and Surveying Co., Inc. by Alexander Zeiger, Georgia Registered Land Surveyor No. 2530, dated June 17, 2005, last revised June 22, 2005 and being more particularly described as follows:

BEGINNING at a point marked by an iron pin placed located at the intersection of the easterly right-of-way line of Gumby Street (30' R/W) and the northerly right-of-way line of DeKalb Avenue (R/W Varies), run thence along the aforesaid right-of-way line of Gumby Street North 11 degrees 40 minutes 58 seconds West a distance of 268.79 feet to a point marked by an iron pin placed; run then North 77 degrees 28 minutes 17 seconds East a distance of 172.10 feet to a

½ inch rebar found; run thence South 11 degrees 53 minutes 46 seconds East a distance of 71.74 feet to a ¾ inch rebar found; run thence North 78 degrees 47 minutes 18 seconds East a distance of 50.00 feet to a point marked by an iron pin placed; run thence South 11 degrees 55 minutes 38 seconds East a distance of 182.65 feet to a point marked by an iron pin placed located on the northerly right-of-way line of DeKalb Avenue; continuing along the aforesaid right-of-way line of DeKalb Avenue, run thence South 74 degrees 02 minutes 53 seconds West a distance of 221.34 feet to a point marked by an iron pin placed located at the intersection of the northerly right-of-way line of DeKalb Avenue with the easterly right-of-way line of Gumby Street, said point being the TRUE PLACE OR POINT OF BEGINNING.

Said parcel contains 1.245 acres.

TOGETHER WITH all the improvements now or hereafter erected on the property, all easements, appurtenances and fixtures now or hereafter a part of the property and the rents, profits, condemnation awards, and insurance proceeds thereof, and all replacements and additions.

This conveyance is made by virtue of the power of sale contained in that certain Deed to Secure Debt and Security Agreement, dated June 30, 2005 given by Grantor to Lender and recorded in Deed Book 40367, at pages 544 *et seq.*, Fulton County, Georgia Records (the "Security Deed") and pursuant to the applicable provisions of the Uniform Commercial Code, as enacted in Georgia, including, without limitation, O.C.G.A. §§11-9-601 *et seq.*

The Security Deed was given to secure (1) the indebtedness evidenced by that certain Promissory Note dated June 30, 2005 made by Grantor to the order of Lender (the "Note"). The indebtedness (the "Indebtedness") evidenced by the Note and secured by the Security Deed and all other documents and instruments evidencing, securing, governing or otherwise pertaining to said indebtedness (said documents, together with the Note and the Security Deed are herein collectively referred to as the "Loan Documents") was declared due and immediately payable because of default by Grantor in payment of the Indebtedness in accordance with the terms of the Note, the Security Deed and the other Loan Documents and by reason of the failure of Grantor to perform its obligations under the Loan Documents. By reason of the defaults and in accordance with the terms of the Security Deed, Lender declared the total balance of the Indebtedness due and the Security Deed foreclosable, and, as attorney-in-fact for Grantor duly advertised the Property for sale in the FULTON COUNTY DAILY REPORT, a newspaper in which the Sheriff's sales for Fulton County, Georgia are advertised, on October 6, 13, 20 and 27, 2010, respectively, and proceeded to expose the same for sale before the Courthouse door in Fulton County, Georgia, on a legal sales day, to wit: the first Tuesday in November, 2010, the same being November 2, 2010, and within the legal hours of sale, at which sale Grantee, party of the second part, was the highest and best bidder for cash, and said property was knocked off to it for the sum of TWO MILLION THREE HUNDRED THOUSAND AND NO/100 DOLLARS (\$2,300,000.00), all in accordance with the power and terms contained in said Security Deed.

TO HAVE AND TO HOLD, the Property, together with all and singular the rights, members and appurtenances thereof, the same being, belonging, or in anywise appertaining to the only proper use, benefit and behoof of Grantee, its successors and assigns, forever, in FEE SIMPLE, in as full and ample a manner as the same were possessed and held by Grantor.

The Property is sold on an "as is, where is" basis without recourse against Lender and without representation or warranty of any kind or nature whatsoever, express or implied, with respect thereto, including, without limitation the warranties of merchantability and fitness for any particular purpose.

The sale and conveyance of the Property has been made subject to (1) all unpaid taxes and assessments which are liens against the Property and which are prior in right to the Security Deed; (2) riparian rights incident to the premises; (3) Easement from Albert Rhodes Perdue to the City of Atlanta, dated February 26, 1947, recorded in Deed Book 2172, page 365, Fulton County, Georgia records; (4) Right-of-way Easement from Five Realty Co. to Georgia Power Company, dated December 12, 1967, recorded in Deed Book 4844, page 370, aforesaid records; (5) Declaration of Construction Easement from Servisco, Inc. to Metropolitan Atlanta Rapid Transit Authority, dated January 15, 1976, recorded in Deed Book 6417, page 194, aforesaid records; (6) Notification of the Designation of Property under the City of Atlanta's Historic Preservation Ordinance by Karen Huebner, Executive Director Urban Design Commission City of Atlanta, dated April 18, 2002, recorded in Deed Book 32286, page 363, aforesaid records; (7) Georgia Environmental Protection Division Hazardous Site Inventory dated July 1, 2004 at Site 10704, ARAMARK Uniform Services; as affected by Affidavit by Brisbane II, LLC, dated March 6, 2006, recorded in Deed Book 42078, Page 506, aforesaid records; (8) Deed from Norfolk Southern Railway Company, successor to the Georgia Air Line Railway Company, the Atlanta and Richmond Air Line Railway Company, Richmond and Danville Railroad Company, the Atlanta and Charlotte Air Line Railway Company and Southern Railway Company to Ansley North Beltline, LLC, Ansley South Beltline, LLC, Piedmont Beltline, LLC, North Avenue Beltline, LLC, Corridor Beltline, LLC and Corridor Edgewood, LLC, dated December 30, 2004, recorded in Deed Book 39115, page 430, aforesaid records; as affected by Deed of Correction from Norfolk Southern Railway Company, successor to Georgia Air Line Railway Company, the Atlanta and Richmond Air Line Railway Company, Richmond and Danville Railroad Company, the Atlanta and Charlotte Air Line Railway Company and Southern Railway Company to Ansley North Beltline, LLC, Ansley South Beltline, LLC, Piedmont Beltline, LLC, North Avenue Beltline, LLC, Corridor Beltline, LLC, and Corridor Edgewood, LLC, dated June 11, 2007, recorded in Deed Book 45194, page 351, aforesaid records; as further affected by Limited Warranty Deed from NE Corridor Partners, LLC to The Atlanta Development Authority, dated October 31, 2008, recorded in Deed Book 47320, page 573, aforesaid records; (9) Temporary Access and Construction Easement and License Agreement between The Atlanta Development Authority, as successor in interest to NE Corridor Partners, The Piedmont Park Conservancy, Inc., and Norfolk Southern Railway Company, dated June 22, 2009, recorded in Deed Book 48163, page 403, aforesaid records; as amended by First Amendment to Temporary Access and Construction Easement and License Agreement between The Atlanta Development Authority, as successor in interest to NE Corridor Partners, LLC, The Piedmont Park Conservancy, Inc. and Norfolk Southern Railway Company, dated September 30, 2009, recorded in Deed Book 48586, page 481, aforesaid records; (10) matters shown on ALTA/ACSM Land Title Survey for ARAMARK, prepared by Georgia Land Surveying Co., Inc., dated December 3, 2001; and (11) any and all other easements, limitations, restrictions, reservations, covenants and encumbrances of record to which the Security Deed is subordinate in terms of priority.

None of the Property conveyed by this deed under power was used as a dwelling place by Grantor at the time the Security Deed was given, and none of the Property conveyed by this deed under power is now used as a dwelling place by Grantor.

**[SIGNATURES IMMEDIATELY FOLLOW]**

IN WITNESS WHEREOF, Grantor, acting by and through ARAMARK Uniform & Career Apparel, LLC, a Delaware limited liability company (formerly known as ARAMARK Uniform & Career Apparel, Inc., a Delaware corporation), its attorney-in-fact, as aforesaid, has hereunto set its hand and seal on the day and year first above written.

Signed, sealed and delivered  
in the presence of:

Stephanie Wilson  
Witness

Leslie Perry  
Notary Public

My Commission Expires:

November 1, 2013

[Notarial Seal]

BRISBANE II, LLC, a Georgia limited  
partnership, acting by and through  
ARAMARK UNIFORM & CAREER  
APPAREL, LLC, a Delaware limited liability  
company (formerly known as ARAMARK  
Uniform & Career Apparel, Inc., a Delaware  
corporation), its attorney-in-fact

By: [Signature]  
Name: David Michaelson  
Title: Vice President





---

**ATTACHMENT C**

**Available Historical Soil Boring Logs/  
Monitoring Well Construction Logs**

**DEPAUL**AND ASSOCIATES, INC.  
ENVIRONMENTAL ENGINEERS

LOG OF BORING: MW5


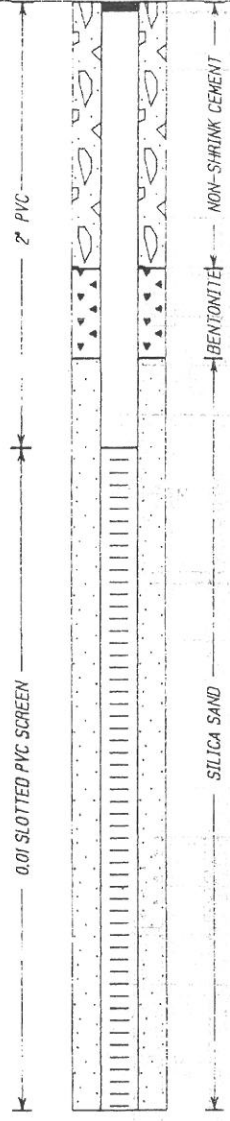




Page 1 of 1

CLIENT: ARATEX	LOCATION: ATLANTA, GA
DATE DRILLED: 5/20/92	SURFACE ELEVATION: 1019.76 Feet MSLD
DRILLING METHOD: HOLLOW STEM AUGER	TOTAL DEPTH: 25 Feet
DRILLING COMPANY: LAYNE ENVIRONMENTAL	LOGGED BY: PAUL CHARLES LUNA

DEPTH feet	SAMPLE	SAMP. NO.	RECOVERY (in.)	N-VALUE	FIELD VOC (ppm)	GRAPHIC LOG	SOIL CLASS	DESCRIPTION AND REMARKS	WELL DIAGRAM
5	MW5-5FT	24	9	ND			SM	Black-tan silty SAND very fine grained abundant glass and wood debris present	
10	MW5-10FT	24	5	ND			CL	Lt. brown/tan sandy CLAY moderately plastic, mottled, fine to medium grained sand	
15	MW5-15FT	24	8	ND			CL	Lt. brown/tan sandy CLAY moderately plastic, mottled, sand in matrix is fine to medium grained	
20	MW5-20FT	24	8	ND			SM	Lt. tan sandy CLAY moderately plastic, mottled, medium grained sand	
25	MW5-25FT	24	17	ND				Tan silty SAND fine grained, well sorted	
30									

JOB NUMBER: 1309

CLIENT: ARATEX	LOCATION: ATLANTA, GA
DATE DRILLED: 5/20/92	SURFACE ELEVATION: 1019.68 Feet MSLD
DRILLING METHOD: HOLLOW STEM AUGER	TOTAL DEPTH: 25 Feet
DRILLING COMPANY: LAYNE ENVIRONMENTAL	LOGGED BY: PAUL CHARLES LUNA

DEPTH feet	SAMPLE	SAMP. NO.	RECOVERY (in.)	N-VALUE	FIELD VOC (ppm)	GRAPHIC LOG	SOIL CLASS	DESCRIPTION AND REMARKS	WELL DIAGRAM
5	MW6-5 FT	10	24	ND			CL	Brown sandy CLAY moderately plastic, medium to coarse grained sand, mottled black/brown	
10	MW6-10 FT	24	7	ND			SM	Black/brown silty SAND fine to medium grained sand, micaceous, minor gravel (0.33 cm) present	
15	MW6-15 FT	24	8	ND			SC	Lt. brown/tan clayey SAND micaceous, poorly sorted, V.F. grained sand, banded black/brown	
20	MW6-20 FT	24	7	ND			SC	Brown clayey SAND micaceous, minor white gravel (0.75 cm), mottled, thin layers of brown-tan-white, v.f. grained sand, wet spoon	
25	MW6-25 FT	24	9	ND			SC	Brown clayey SAND micaceous, v.f. grained sand, minor white gravel (0.5 cm), layers of brown, dark brown, black, and white	
30									

ARAMARK Uniform Services, Inc. 670 DeKalb Avenue Atlanta, GA.		MW-104		Bock Environmental Services, Inc. 3108 Rolling Acres Pl. Suite A Valrico, FL
		Surface Elevation: NA		
		Total Well Depth: 24.0-ft		
		Date Drilled: 8/13/01		
DEPTH (Feet)	BLOW COUNTS	LITHOLOGIC DESCRIPTIONS	OVA (ppm)	WELL DIAGRAM DETAILS
0 - 2	-	Concrete with a gravel base.	-	2-ft x 2-ft pad w/8-in metal manhole.
2 - 4	17-8-11-18	Mottled beige-orange-brown, dense, slightly crumbly, micaceous, silty clay. " " No Returns.	425	14-ft 2-in PVC casing & 10-ft PVC 0.01 slotted screen. 20/40 sandpack, bentonite seal, grout to surface.
4 - 6	5-5-7-10		400	
6 - 8	7-6-7-10		325	
8 - 10	6-9-13-6		575	
10 - 12	7-4-7-10		-	
12 - 14	4-5-7-10	Mottled beige-gold-brown, loose, crumbly, micaceous, silty clay. Wet. " " " " Beige to white limerock at base.	250	
14 - 16	6-8-11-13		220	
16 - 18	4-8-14-16		225	
18 - 20	5-5-8-7		3	
20 - 22	4-8-14-17		10	
22 - 24	5-8-12-14		65	
24 - 26	13-48-55-5		25	
Total Well Depth at 24-ft.				

ARAMARK Uniform Services, Inc. 670 DeKalb Avenue Atlanta, GA.		TMW-105		Bock Environmental Services, Inc. 3108 Rolling Acres Pl. Suite A Valrico, FL
		Surface Elevation: NA		
		Total Well Depth: 25.0-ft		
		Date Drilled: 8/14/01		
DEPTH (Feet)	BLOW COUNTS	LITHOLOGIC DESCRIPTIONS	OVA (ppm)	WELL DIAGRAM DETAILS
0 - 2	-	Concrete with a gravel base.	-	2-ft x 2-ft pad w/8-in metal manhole.
2 - 4	3-4-4-6	Orange-brown-black, soft, slightly moldable, silty clay. Trace of sand. " " "	>900	10-ft 2-in PVC casing & 15-ft PVC 0.01 slotted screen. 20/40 sandpack, bentonite seal, grout to surface.
4 - 6	4-2-2-7		38	
6 - 8	5-6-9-8		8	
8 - 10	5-4-4-7		7	
10 - 12	5-10-12-14		4	
12 - 14	4-8-14-16	Mottled beige-orange, dense, slightly moldable, micaceous, silty clay. Moist. Gold to gray, soft, moldable, micaceous, silty clay. Wet.	0	
14 - 16	6-8-14-15		190	
16 - 18	4-9-17-19		60	
18 - 20	Refusal		-	
20 - 25	-	Total Well Depth at 25-ft.	-	

ARAMARK Uniform Services, Inc. 670 DeKalb Avenue Atlanta, GA.		MW-106		Bock Environmental Services, Inc. 3108 Rolling Acres Pl. Suite A Valrico, FL
		Surface Elevation: NA		
		Total Well Depth: 24.0-ft		
		Date Drilled: 8/15/01		
DEPTH (Feet)	BLOW COUNTS	LITHOLOGIC DESCRIPTIONS	OVA (ppm)	WELL DIAGRAM DETAILS
0 - 2	-	Concrete with a gravel base.	-	2-ft x 2-ft pad w/8-in metal manhole.  15-ft 2-in PVC casing & 9-ft PVC 0.01 slotted screen. 20/40 sandpack, bentonite seal, grout to surface.
2 - 4	4-8-7-10	Mottled beige-orange-brown, dense, dry, crumbly, silty clay with trace of sand & pebbles.	0	
4 - 6	5-9-7-10		0	
6 - 8	5-6-5-7		0	
8 - 10	4-4-7-8	Gold with black streaks, loose, micaceous, silty clay.	0	
10 - 12	3-5-6-9		0	
12 - 14	4-6-6-6	Mottled black-gold-orange, loose, micaceous, silty clay. Moist. "	0	
14 - 16	3-5-7-9		0	
16 - 18	4-10-13-18		0	
18 - 20	4-3-3-5	Mottled gold-black-white, crumbly, micaceous, silty clay with white limerock chips.	-	
20 - 24	-		-	
		Total Well Depth at 24-ft.		

ARAMARK Uniform Services, Inc. 670 DeKalb Avenue Atlanta, GA.		MW-107		Bock Environmental Services, Inc. 3108 Rolling Acres Pl. Suite A Valrico, FL
		Surface Elevation: NA		
		Total Well Depth: 25.0-ft		
		Date Drilled: 8/14/01		
DEPTH (Feet)	BLOW COUNTS	LITHOLOGIC DESCRIPTIONS	OVA (ppm)	WELL DIAGRAM DETAILS
0 - 2	-	Concrete with a gravel base.	-	2-ft x 2-ft pad w/8-in metal manhole.
2 - 4	4-5-9-7	Orange-brown-black, moderately dense, slightly moldable, silty clay.	>750	10-ft 2-in PVC casing & 15-ft PVC 0.01 slotted screen. 20/40 sandpack, bentonite seal, grout to surface.
4 - 6	6-4-6-7	"	620	
6 - 8	3-3-4-6	"	100	
8 - 10	2-3-4-6	Orange, dense, moist, moldable clay with subangular pebbles & coarse grain sand.	160	
10 - 12	3-3-8-7		13	
12 - 14	3-4-9-7	" " " pebbles absent.	28	
14 - 16	3-6-9-4	"	2	
16 - 18	3-3-5-5	"	-	
18 - 25	No Returns	Total Well Depth at 25-ft.	-	

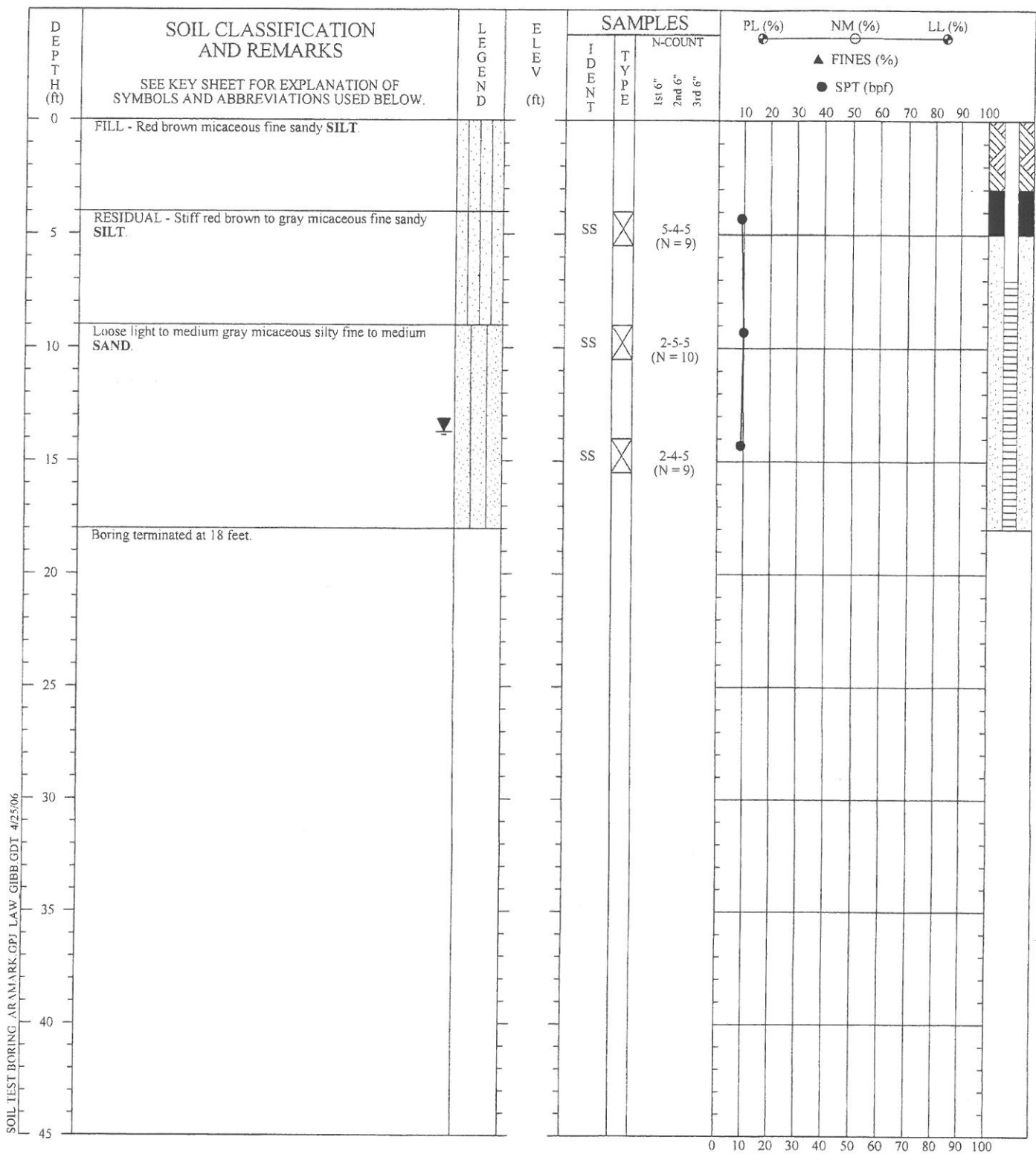
ARAMARK Uniform Services, Inc. 670 DeKalb Avenue Atlanta, GA.		MW-108		Bock Environmental Services, Inc. 3108 Rolling Acres Pl. Suite A Valrico, FL
		Surface Elevation: NA		
		Total Well Depth: 25.0-ft		
		Date Drilled: 8/15/01		
DEPTH (Feet)	BLOW COUNTS	LITHOLOGIC DESCRIPTIONS	OVA (ppm)	WELL DIAGRAM DETAILS
0 - 2	-	Concrete with a gravel base.	-	2-ft x 2-ft pad w/8-in metal manhole.  15-ft 2-in PVC casing & 10-ft PVC 0.01 slotted screen. 20/40 sandpack, bentonite seal, grout to surface.
2 - 4	5-15-8-7	Mottled black-orange-brown, dense, dry, crumbly, silty clay with rock fragments. "	100	
4 - 6	4-4-4-4		12	
6 - 8	6-6-4-6		12	
8 - 10	3-3-3-15	Gold-gray-white, dry, silty clay with a trace of coarse grain sand. Hard rock at 10-ft.	2	
10 - 12	4-8-10-12		2	
12 - 14	3-4-5-5	Gold, moist, micaceous, silty clay. Wet.	6	
14 - 16	3-4-3-4	"	8	
16 - 25	-	"	-	
Total Well Depth at 25-ft.				



ARAMARK Uniform Services, Inc. 670 DeKalb Avenue Atlanta, GA.		TMW-109		Bock Environmental Services, Inc. 3108 Rolling Acres Pl. Suite A Valrico, FL
		Surface Elevation: NA		
		Total Well Depth: 25.0-ft		
		Date Drilled: 8/16/01		
DEPTH (Feet)	BLOW COUNTS	LITHOLOGIC DESCRIPTIONS	OVA (ppm)	WELL DIAGRAM DETAILS
0 - 2	-	Orange-brown-black, moist, silty clay with fragmented debris.	-	2-ft x 2-ft pad w/8-in metal manhole.  10-ft 2-in PVC casing & 15-ft PVC 0.01 slotted screen. 20/40 sandpack, bentonite seal, grout to surface.
2 - 4	4-3-2-4	"	>1000	
4 - 6	6-9-11-10	"	>1000	
6 - 8	4-3-4-5	Dark brown, slightly moist, grainy, dirty, clayey silt. Refusal at 10-ft.	>400	
8 - 10	6-22-33-Rf	Dark brown to orange, slightly moldable, micaceous silt with a trace of sand.	>150	
10 - 12	9-6-4-5		50	
12 - 14	4-4-3-4	No Recovery. Wet.	-	
14 - 16	4-4-6-9	"	-	
16 - 18	-	Light brown to gray, soft, moldable, micaceous, silty clay with trace of sand.	-	
18 - 25	-		-	
		Total Well Depth at 25-ft.		

ARAMARK Uniform Services, Inc. 670 DeKalb Avenue Atlanta, GA.		MW-110		Bock Environmental Services, Inc. 3108 Rolling Acres Pl. Suite A Valrico, FL
		Surface Elevation: NA		
		Total Well Depth: 22.0-ft		
		Date Drilled: 8/16/01		
DEPTH (Feet)	BLOW COUNTS	LITHOLOGIC DESCRIPTIONS	OVA (ppm)	WELL DIAGRAM DETAILS
0 - 2	-	Concrete with a gravel base.	-	2-ft x 2-ft pad w/8-in metal manhole.  15-ft 2-in PVC casing & 7-ft PVC 0.01 slotted screen. 20/40 sandpack, bentonite seal, grout to surface.
2 - 4	8-7-6-13	No Recovery.	-	
4 - 6	4-6-9-9	Orange, dense, dry, crumbly, slightly micaceous, silt.	>500	
6 - 8	3-6-7-9		450	
8 - 10	4-3-4-6	Gold, dry, crumbly, micaceous silt with trace	340	
10 - 12	4-3-4-5	of coarse grain sand. Moist.	290	
12 - 14	4-7-8-10	No Recovery. Wet.	-	
14 - 16	4-6-6-14	No Recovery.	-	
16 - 22	-	Total Well Depth at 24-ft.	-	

ARAMARK Uniform Services, Inc. 670 DeKalb Avenue Atlanta, GA.		MW-111		Bock Environmental Services, Inc. 3108 Rolling Acres Pl. Suite A Valrico, FL
		Surface Elevation: NA		
		Total Well Depth: 25.0-ft		
		Date Drilled: 8/15/01		
DEPTH (Feet)	BLOW COUNTS	LITHOLOGIC DESCRIPTIONS	OVA (ppm)	WELL DIAGRAM DETAILS
0 - 2	-	Concrete with a gravel base.	-	2-ft x 2-ft pad w/8-in metal manhole.
2 - 4	3-4-6-8	Orange, dry, crumbly, micaceous, silty, clay.	5	10-ft 2-in PVC casing & 15-ft PVC 0.01 slotted screen. 20/40 sandpack, bentonite seal, grout to surface.
4 - 6	5-3-4-5	"	11	
6 - 8	3-2-3-5	Gold, loose, moist, micaceous, silty clay.	30	
8 - 10	5-4-5-8	"	30	
10 - 12	3-4-4-7	"	80	
12 - 14	5-9-15-12	" " " with quartz fragments.	37	
14 - 16	3-9-27-30	"	1	
16 - 18	7-15-17-13	"	-	
18 - 25	-		-	
		Total Well Depth at 25-ft.		



DRILLER: MACTEC  
 EQUIPMENT: CME 550  
 METHOD: Hollow Stem Auger  
 HOLE DIA.: 8 inches  
 REMARKS: Type II well installed. Stabilized groundwater depth  
 13.72 feet below TOC.

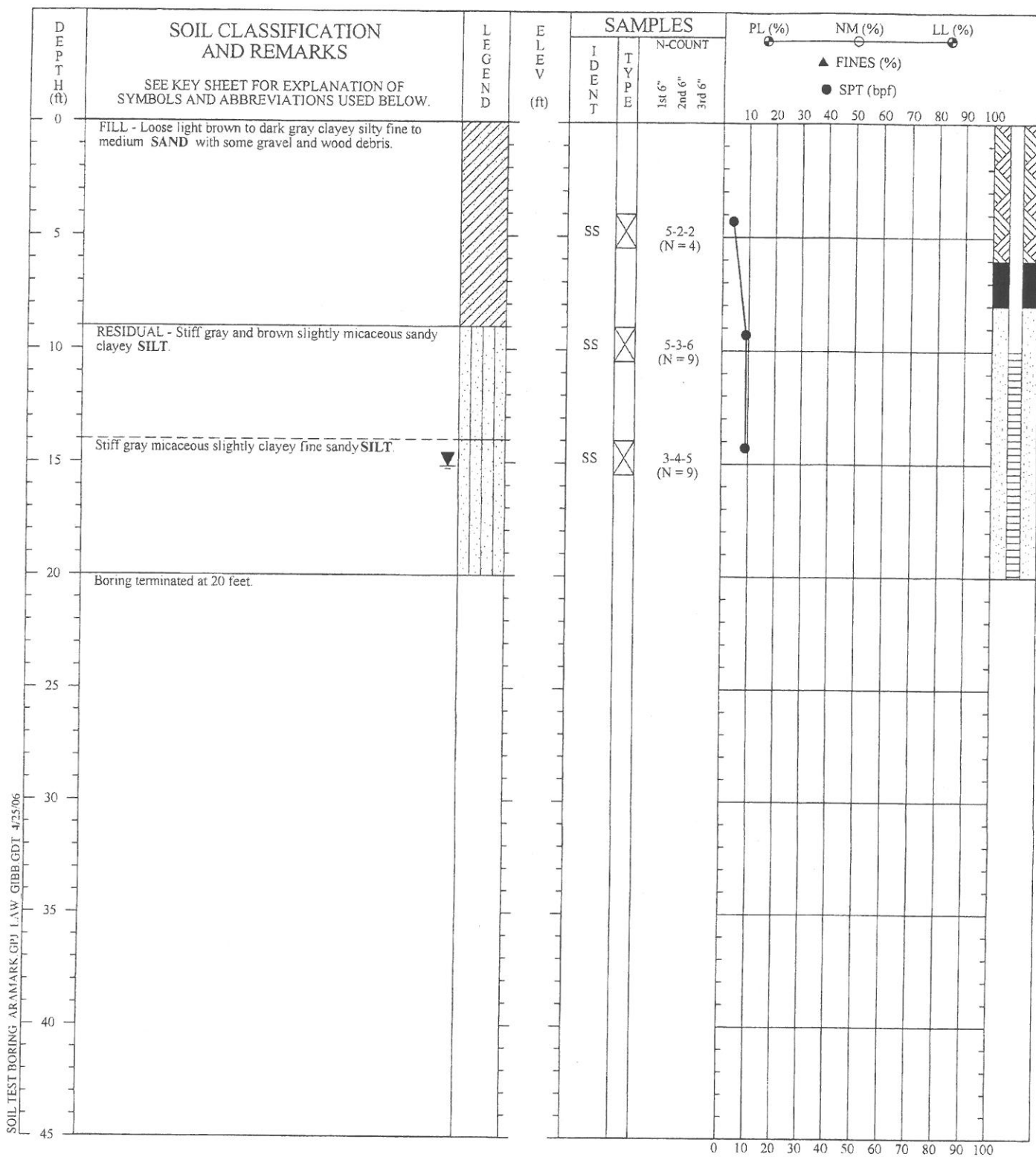
### SOIL TEST BORING RECORD

BORING NO.: MW-402  
 PROJECT: ARAMARK  
 LOCATION: Atlanta, Georgia  
 DRILLED: April 13, 2006  
 PROJECT NO.: 6306-05-0097

PAGE 1 OF 1

**MACTEC**

THIS RECORD IS A REASONABLE INTERPRETATION OF  
 SUBSURFACE CONDITIONS AT THE EXPLORATION  
 LOCATION. SUBSURFACE CONDITIONS AT OTHER  
 LOCATIONS AND AT OTHER TIMES MAY DIFFER.  
 INTERFACES BETWEEN STRATA ARE APPROXIMATE.  
 TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.



DRILLER: MACTEC  
 EQUIPMENT: CME 550  
 METHOD: Hollow Stem Auger  
 HOLE DIA.: 8 inches  
 REMARKS: Type II well set. Stabilized groundwater depth 15.16 feet below TOC.

### SOIL TEST BORING RECORD

BORING NO.: MW-403  
 PROJECT: ARAMARK  
 LOCATION: Atlanta, Georgia  
 DRILLED: April 13, 2006  
 PROJECT NO.: 6306-05-0097

PAGE 1 OF 1

**MACTEC**

THIS RECORD IS A REASONABLE INTERPRETATION OF  
 SUBSURFACE CONDITIONS AT THE EXPLORATION  
 LOCATION. SUBSURFACE CONDITIONS AT OTHER  
 LOCATIONS AND AT OTHER TIMES MAY DIFFER.  
 INTERFACES BETWEEN STRATA ARE APPROXIMATE.  
 TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

# Monitoring Well MW-210

Project: <b>ARAMARK - DeKalb</b>	Drill Rig: <b>Tsi-150 T Sonic Rig</b>	Top of Casing Elevation: <b>1016.28</b>
Date: <b>May 22, 2013</b>	Driller: <b>Southeast Sonic Solutions</b>	Initial Groundwater Depth: <b>11.0 Ft Bbs</b>
Logged By: <b>Tony Gordon, PG</b>	Hole Diameter: <b>6-inch</b>	Final Groundwater Depth: <b>13.56 Ft. TOC</b>

Description	USCS Class	Graphic Log	Depth	Sample Interval	Blows / 6"	
Concrete, Gravel, Paving			0			
Red-brown, brown , silty sand, trace gravel, non-plastic, moist ( fill).	SM		2			
Red-brown, dark-gray-black, clayey silt, trace-little very fine sand, trace glass fragments, very low plasticity ( fill).	ML/ CL		4			
Dark-gray, clayey-silt and fine-course sand, trace gravel, trace burnt wood fragments, low plasticity , moist (fill).	CL/ SC		6			
Red-brown, brown, light gray, mottled, silty clay, little-some fine-medium sand , low-medium plasticity, very moist/wet (no odor).	CL/ SC		8			
			10			
			12			
			14			
			16			
Gray, orange-brown, silty fine-course sand, trace gravel (weathered rock) trace clay, trace mica, wet ( no odor), non-plastic , wet ( no odor).	SM		18			
			20			
			22			
Tan-brown, white, light gray, silty fine-course sand, trace-little weathered rock fragments ( granitic texture), no odor.	SM/ GW		24			
			26			
Terminate boring hole : 26 Ft. BGS.			28			
			30			
			32			
			34			
			36			
			38			
			40			

## Notes:

1. USCS = Unified Soil Classification System.
2. Groudwater measured from top casing ( TOC).
3. BGS- below ground surface.

# Monitoring Well MW-211

Project: <b>ARAMARK - DeKalb</b>	Drill Rig: <b>Tsi-150 T Sonic Rig</b>	Top of Casing Elevation: <b>1016.37</b>
Date: <b>May 22, 2013</b>	Driller: <b>Southeast Sonic Solutions</b>	Initial Groundwater Depth: <b>8.30 Ft Bbs</b>
Logged By: <b>Tony Gordon, PG</b>	Hole Diameter: <b>6-inch</b>	Final Groundwater Depth: <b>13.21 Ft. TOC</b>

Description	USCS Class	Graphic Log	Depth	Sample Interval	Blows / 6"	
Concrete, gravel paving			0			
Red-brown, brown, gray, silty clay, little fine-course sand, trace debris ( red brick fragments, burnt wood) , low plasticity, moist ( fill).	CL		2			
Dark-gray , black, silty fine-course sand, trace clay, abundant debris ( red brick fragments, rocks and glass fragments) , non-plastic, moist ( fill).	SM		6			
Red-brown , silty clay and fine-medium sand, low-medium plasticity, very moist/wet ( no odor).	CL/ SC		10			
Tan-brown, light gray, orange-brown, mottled silty clay, trace-little fine sand, medium plasticity, very moist/wet ( no odor), "saporlite" ( % sand increases with depth).	CL/ CH		16			
Gray, very silty fine-course sand, banded relic formation, very micaceous, non-plastic , wet.	SM		24			
Terminate Borehole: 26 Ft. BGS.			26			
			28			
			30			
			32			
			34			
			36			
			38			
			40			

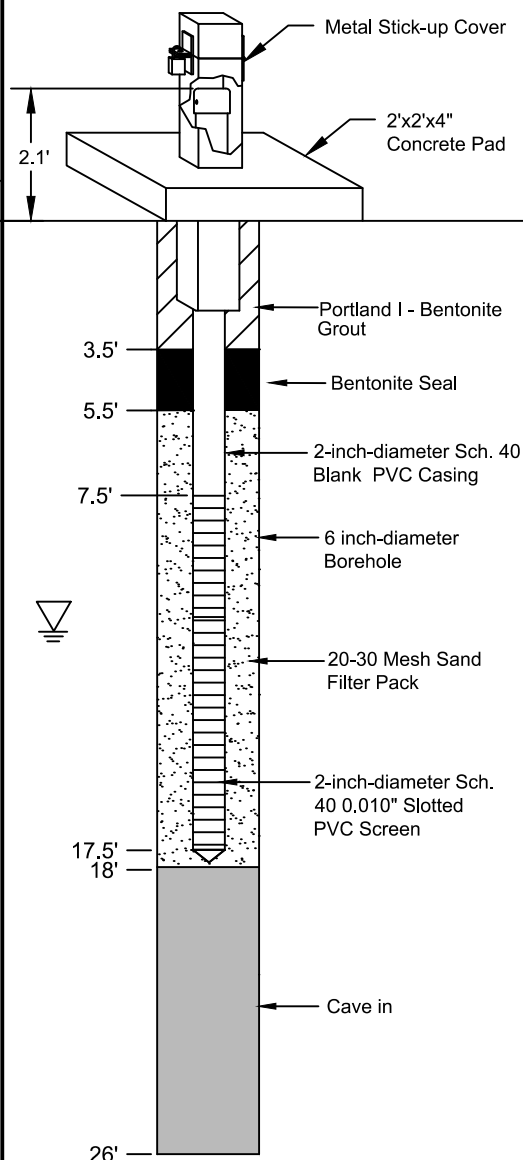
## Notes:

1. USCS = Unified Soil Classification System.
2. Groudwater measured from top casing ( TOC).
3. BGS- below ground surface.

# Monitoring Well MW-212

Project: <b>ARAMARK - DeKalb</b>	Drill Rig: <b>Tsi-150 T Sonic Rig</b>	Top of Casing Elevation: <b>1014.06</b>
Date: <b>May 22, 2013</b>	Driller: <b>Southeast Sonic Solutions</b>	Initial Groundwater Depth: <b>7.00 Ft. BGS</b>
Logged By: <b>Tony Gordon, PG</b>	Hole Diameter: <b>6-inch</b>	Final Groundwater Depth: <b>10.19 Ft. TOC</b>

Description	USCS Class	Graphic Log	Depth	Sample Interval	Blows / 6"	
			0			2.1'
Red-brown, clayey silt, trace-little fine sand, micaceous, non-plastic, moist ( fill ) ( back fill).	ML		2			
Red-brown, silty-clay, trace-little fine sand, low-plasticity, micaceous, very moist ( backfill ) " black plastic at 6' BGS".	CL		4			
Red-brown, silty clay, little-some fine-medium sand, low-medium plasticity, wet.	CL/ SC		6			
			8			
			10			
			12			
Red-brown, brown, light gray, mottled sitly-clayey fine-medium sand, low plastcity "saprolite".	SM/ SC		14			
			16			
Tan-brown, light gray, white, purple ( KMnO4), mottled, very silty fine-course sand, trace clay with seams of fine-course sand and weathered rock fragments, granitic-texture , wet "saprolite".	SM/ GW		18			
			20			
			22			
			24			
Terminate borehole : 26 Ft. BGS			26			
			28			
			30			
			32			
			34			
			36			
			38			
			40			



## Notes:

1. USCS = Unified Soil Classification System.
2. Groudwater measured from top casing ( TOC).
3. BGS- below ground surface.



# Monitoring Well MW-213

Project: <b>ARAMARK - DeKalb</b>	Drill Rig: <b>Tsi-150 T Sonic Rig</b>	Top of Casing Elevation: <b>Pending</b>
Date: <b>May 22, 2013</b>	Driller: <b>Southeast Sonic Solutions</b>	Initial Groundwater Depth: <b>6.99 Ft. BGS</b>
Logged By: <b>Tony Gordon, PG</b>	Hole Diameter: <b>6-inch</b>	Final Groundwater Depth: <b>6.97 Ft. BGS</b>

Description	USCS Class	Graphic Log	Depth	Sample Interval	Blows / 6"	
Red-brown, clayey-silt, little-some fine-medium sand , trace gravel, micaceous, non-plastic ( no odor ) ( backfill).	ML/ SM		0			
Red-brown, brown, silty clay and fine-medium sand, trace-little gravel, low-plasticity, very moist ( no odor ) ( backfill ) @ 7.0' wet.	CL/ SC		2			
			4			
			6			
			8			
			10			
			12			
Tan-brown, gray, orange-brown, white, light-gray, mottled silty fine-course sand, trace rock fragments, trace clay, granitic-textured banding, micaceous, wet " saprolite".	SM		14			
			16			
Tan-brown, gray, orange-brown, silt, trace-little fine sand, trace clay, very micaceous, wet ( no odor ) " saprolite"	ML		18			
			20			
			22			
			24			
			26			
Terminate borehole: 26 Ft. BGS.			28			
			30			
			32			
			34			
			36			
			38			
			40			

## Notes:

1. USCS = Unified Soil Classification System.
2. Groudwater measured from top casing ( TOC).
3. BGS- below ground surface.

Monitoring Well MW-214						
Project: <b>ARAMARK - DeKalb</b>		Drill Rig: <b>Tsi-150 T Sonic Rig</b>		Top of Casing Elevation: <b>1012.34</b>		
Date: <b>May 22, 2013</b>		Driller: <b>Southeast Sonic Solutions</b>		Initial Groundwater Depth: <b>NA</b>		
Logged By: <b>Tony Gordon, PG</b>		Hole Diameter: <b>6-inch</b>		Final Groundwater Depth: <b>8.89 Ft BGS</b>		
Description	USCS Class	Graphic Log	Depth	Sample Interval	Blows / 6"	
See well construction log MW 213 for lithographic description.			0			
Tan-brown, gray, orange-brown, silt, trace-little fine sand, trace clay, very micaceous, wet ( no odor).	ML		4			
Gray-brown, brown, pink ( KMnO4), silt, trace-little very find sand, trace clay, very micaceous, non-plastic, banded texture (ML). Interlayered with seams of fine-course sand and gravel (Qtz/gneiss fragments) GW.	ML/ GW		8			
Gray-brown, pink (KMnO4), brown, silt and fins sand, very micaceous, wet ( no odor).	SM		12			
Gray, tan-brown, white, banded, silt, little-some very fine sand, very micaceous, non-plastic (SM/ML). Interlayered with fine-course sand seams (SW).	SM/ ML (SV)		16			
Gray, tan-brown, mottled silty and fine-course sand, trace clay, foliated-texture, with seams of fine-course sand and weathered rock fragments ( gneissic rock), GW	SM/ GW		20			
			24			
			28			
			32			
			36			
			40			
			44			
			48			
			52			
			56			
Gray, light-gray, silt and fine-course sand, little-some weathered rock fragments, trace clay, very micaceous, wet.	SM/ GW		60			
Gray, weathered Biotite Gneiss interbedded with large quartz and feldspar crystals ( weathered rock), wet.	Rock		64			
Terminate borehole: 75 Ft. BGS ( weathered Gneiss).			68			
			72			
			76			
			80			

2580 Northeast Expressway • Atlanta Georgia 30345  
Telephone: (404) 329-9006 • Fax: (404) 329-2057

**Notes:**

1. USCS = Unified Soil Classification System.
2. Groudwater measured from top casing ( TOC).
3. BGS- below ground surface.

Project No.  
**1133-1303-1**

Page 1 of 1

File name: C:\Users\Tom Longo\appdata\local\temp\15876\20110816\15876.am

**AEM** Atlanta  
Environmental  
Management, Inc.  
*Environmental Consulting, Engineering, Hydrogeologic Services*

2580 Northeast Expressway • Atlanta Georgia 30345  
Telephone: (404) 329-9006 • Fax: (404) 329-2057

1. USCS = Unified Soil Classification System.
2. Groudwater measured from top casing ( TOC).
3. BGS- below ground surface.

File name: C:\Users\Tom Longo\appdata\local\temp\1A7A-B4B1-5876\20110831\157

Project No.  
**1133-1303-1**

Page 1 of 1

---

# **ATTACHMENT D**

## **Historical Groundwater Analytical Data**

Table D-1. Summary of Groundwater Analyses for DePaul Monitoring Well Samples (1990-1994).  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-1					MW-2					MW-3				
			8/2/90	7/22/91	8/7/91	5/21/92	12/29/94	8/2/90	7/22/91	8/7/91	5/21/92	12/29/94	8/2/90	7/22/91	8/7/91	5/21/92	12/29/94
Chlorinated VOCs																	
Tetrachloroethene	µg/L	5	<5	<5	<5	<2	<1	<5	<5	<5	<2	<1	<5	15	318	<2	<1
1,1,1-Trichloroethane	µg/L	200	<5	--	--	21	<1	<5	--	--	<5	<1	<5	--	--	<5	<1
Trichloroethene	µg/L	5	<5	<5	70	<5	<1	<5	<5	<2	<5	<1	<5	<5	<2	<5	<1
1,1-Dichloroethene	µg/L	7	<5	--	--	<5	<1	<5	--	--	<5	<1	<5	--	--	<5	<1
1,2-Dichloroethane	µg/L	5	<5	--	--	<5	<1	<5	--	--	<5	<1	<5	--	--	<5	<1
1,1-Dichloroethane	µg/L	4,000	<5	--	--	<5	<1	<5	--	--	<5	<1	<5	--	--	<5	<1
Chloroethane	µg/L	10*	<5	--	--	<10	<5	<5	--	--	<10	<5	<5	--	--	<10	<5
cis-1,2-Dichloroethene	µg/L	70	NA	--	--	NA	<1	NA	--	--	NA	<1	NA	--	--	NA	<1
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<1	<5	<5	<5	<5	<1	<5	<5	<5	<5	<1
Vinyl Chloride	µg/L	2	<5	<10	<5	<10	<5	<5	<10	<5	<10	<5	<5	<10	<5	<10	<5
Aromatic Hydrocarbons																	
Benzene	µg/L	5	<5	6.0	<5	<2	<1	<5	<5	<5	<2	<1	<5	<5	<5	<2	<1
Ethylbenzene	µg/L	700	<5	--	--	<2	<1	<5	--	--	<2	<1	<5	--	--	<2	<1
Toluene	µg/L	1,000	<5	--	--	1,370	<1	<5	--	--	836	<1	<5	--	--	531	<1
Chlorobenzene	µg/L	100	<5	--	--	<5	<1	<5	--	--	<5	<1	<5	--	--	<5	<1
Cyclohexane	µg/L	5*	NA	--	--	NA	NA	NA	--	--	NA	NA	NA	--	--	NA	NA
Naphthalene	µg/L	20	NA	--	--	NA	NA	NA	--	--	NA	NA	NA	--	--	NA	NA
o-xylene	µg/L	10,000	NA	--	--	NA	NA	NA	--	--	NA	NA	NA	--	--	NA	NA
m,p-Xylene	µg/L	10,000	NA	--	--	NA	NA	NA	--	--	NA	NA	NA	--	--	NA	NA
Xylenes, total	µg/L	10,000	NA	--	--	110	<2	NA	--	--	<2	<2	NA	--	--	<2	<2
Isopropylbenzene	µg/L	5*	NA	--	--	NA	NA	NA	--	--	NA	NA	NA	--	--	NA	NA
Non-Chlorinated VOCs																	
Acetone	µg/L	4,000	NA	--	--	<100	NA	NA	--	--	<100	NA	NA	--	--	<100	NA
Bromomethane	µg/L	5*	<5	--	--	<10	<1	<5	--	--	<10	<1	<5	--	--	<10	<1
Carbon Disulfide	µg/L	4,000	NA	--	--	<5	NA	NA	--	--	<5	NA	NA	--	--	<5	NA
Metals																	
Arsenic	mg/L	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1. Summary of Groundwater Analyses for DePaul Monitoring Well Samples (1990-1994).  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-1					MW-2					MW-3				
			8/2/90	7/22/91	8/7/91	5/21/92	12/29/94	8/2/90	7/22/91	8/7/91	5/21/92	12/29/94	8/2/90	7/22/91	8/7/91	5/21/92	12/29/94
Other																	
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
-- Laboratory data not available  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

Table D-1. Summary of Groundwater Analyses for DePaul Monitoring Well Samples (1990-1994).  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			8/2/90	7/22/91	MW-4 8/7/91	5/21/92	12/29/94	MW-5 5/21/92	MW-6 5/21/92	MW-7 5/21/92 12/29/94	MW-8 12/29/94	MW-9 12/29/94
Chlorinated VOCs			Type 1 RRS									
Tetrachloroethene	µg/L	5	<5	24,000	32,000	3,380	47,000 J	2,020	180	<2 <1	14	<1
1,1,1-Trichloroethane	µg/L	200	<5	--	--	<5	<1	<5	<5	<5 <1	<1	<1
Trichloroethene	µg/L	5	<5	130	282	<5	190	<5	<5	<5 <1	<1	<1
1,1-Dichloroethene	µg/L	7	<5	--	--	<5	<1	<5	<5	<5 <1	<1	<1
1,2-Dichloroethane	µg/L	5	<5	--	--	<5	<1	<5	<5	<5 <1	<1	<1
1,1-Dichloroethane	µg/L	4,000	<5	--	--	<5	<1	<5	<5	<5 <1	<1	<1
Chloroethane	µg/L	10*	<5	--	--	<10	<5	<10	<10	<10 <5	<5	<5
cis-1,2-Dichloroethene	µg/L	70	NA	--	--	NA	<1	NA	NA	NA <1	<1	<1
trans-1,2-Dichloroethene	µg/L	100	<5	220	102	56	56	229	<5	<5 <1	<1	<1
Vinyl Chloride	µg/L	2	<5	<100	<5	<10	<5	120	<10	<10 <5	<5	<5
Aromatic Hydrocarbons												
Benzene	µg/L	5	<5	<50	<5	<2	<1	<2	<2	<2 <1	<1	<1
Ethylbenzene	µg/L	700	<5	--	--	<2	2.9	<2	<2	<2 <1	<1	<1
Toluene	µg/L	1,000	<5	--	--	288	12	66	49	650 <1	<1	<1
Chlorobenzene	µg/L	100	<5	--	--	<5	<1	<5	<5	<5 <1	<1	<1
Cyclohexane	µg/L	5*	NA	--	--	NA	NA	NA	NA	NA NA	NA	NA
Naphthalene	µg/L	20	NA	--	--	NA	NA	NA	NA	NA NA	NA	NA
o-xylene	µg/L	10,000	NA	--	--	NA	NA	NA	NA	NA NA	NA	NA
m,p-Xylene	µg/L	10,000	NA	--	--	NA	NA	NA	NA	NA NA	NA	NA
Xylenes, total	µg/L	10,000	NA	--	--	80	52	<2	<2	<2 <2	<2	<2
Isopropylbenzene	µg/L	5*	NA	--	--	NA	NA	NA	NA	NA NA	NA	NA
Non-Chlorinated VOCs												
Acetone	µg/L	4,000	NA	--	--	<100	NA	<100	<100	<100 NA	NA	NA
Bromomethane	µg/L	5*	<5	--	--	<10	<1	<10	<10	<10 <1	<1	<1
Carbon Disulfide	µg/L	4,000	NA	--	--	<5	NA	<5	<5	<5 NA	NA	NA
Metals												
Arsenic	mg/L	10	NA	NA	NA	NA	NA	NA	NA	NA NA	NA	NA
Barium	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA NA	NA	NA
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA NA	NA	NA
Chromium	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA NA	NA	NA
Iron	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA NA	NA	NA
Lead	mg/L	15	NA	NA	NA	NA	NA	NA	NA	NA NA	NA	NA
Manganese	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA NA	NA	NA
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA NA	NA	NA
Sodium	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA NA	NA	NA
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA NA	NA	NA

Table D-1. Summary of Groundwater Analyses for DePaul Monitoring Well Samples (1990-1994).  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			8/2/90	7/22/91	MW-4 8/7/91	5/21/92	12/29/94	MW-5 5/21/92	MW-6 5/21/92	MW-7 5/21/92 12/29/94	MW-8 12/29/94	MW-9 12/29/94
Other												
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA NA	NA	NA

Notes:  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
-- Laboratory data not available  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

**Table D-2. Summary of Groundwater Analyses for QORE Samples B-1, B-2, and B-3 (1999).**  
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**  
**Atlanta, Georgia**

			B-1	B-2	B-3
			09/28/99	09/28/99	09/28/99
<b>Chlorinated VOCs</b>					
	Type 1 RRS				
Tetrachloroethene	µg/L	5	69.	289.	<1
1,1,1-Trichloroethane	µg/L	200	<1	<1	<1
Trichloroethene	µg/L	5	269.	169.	<1
1,1-Dichloroethene	µg/L	7	8.2	15.	<1
1,2-Dichloroethane	µg/L	5	<1	<1	<1
1,1-Dichloroethane	µg/L	4,000	<1	<1	<1
Chloroethane	µg/L	10*	2.3	8.9	<2
cis-1,2-Dichloroethene	µg/L	70	5,000.	13,300.	<1
trans-1,2-Dichloroethene	µg/L	100	80.	98.	<1
Vinyl Chloride	µg/L	2	982.	2,090.	<2
<b>Aromatic Hydrocarbons</b>					
Benzene	µg/L	5	6.6	10.	<1
Ethylbenzene	µg/L	700	<1	<1	<1
Toluene	µg/L	1,000	<1	1.3	<1
Chlorobenzene	µg/L	100	<1	3.3	<1.0
Cyclohexane	µg/L	5*	NA	NA	NA
Naphthalene	µg/L	20	NA	NA	NA
o-xylene	µg/L	10,000	NA	NA	NA
m,p-Xylene	µg/L	10,000	NA	NA	NA
Xylenes, total	µg/L	10,000	<1	<1	<1
Isopropylbenzene	µg/L	5*	NA	NA	NA
<b>Non-Chlorinated VOCs</b>					
Acetone	µg/L	4,000	NA	NA	NA
Bromomethane	µg/L	5*	<2	<2	<2
Carbon Disulfide	µg/L	5*	NA	NA	NA



**Table D-2. Summary of Groundwater Analyses for QORE Samples B-1, B-2, and B-3 (1999).**  
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**  
**Atlanta, Georgia**

			B-1	B-2	B-3
			09/28/99	09/28/99	09/28/99
<b>Metals</b>					
Arsenic	mg/L	10	NA	NA	NA
Barium	mg/L	2,000	NA	NA	NA
Beryllium	mg/L	4	NA	NA	NA
Chromium	mg/L	100	NA	NA	NA
Iron	mg/L	NR	NA	NA	NA
Lead	mg/L	15	NA	NA	NA
Manganese	mg/L	NR	NA	NA	NA
Nickel	mg/L	100	NA	NA	NA
Sodium	mg/L	NR	NA	NA	NA
Thallium	mg/L	2	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA
<b>Other</b>					
Chlorides	mg/L	NR	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	NA	NA

Notes:

RRS-Risk Reduction Standard

VOCs-volatile organic compounds

µg/L- micrograms per liter

mg/L-milligrams per liter

NA-not analyzed

\*-Risk Reduction Standard based on Detection limit

NR-Not regulated

Exceeds Type 1 RRS

**Table D-3. Summary of Groundwater Analyses for Pickering Samples BH-1, BH-2, and BH-3 (2000).**

**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**

**Atlanta, Georgia**

			BH-1	BH-2	BH-3
			11/03/00	11/03/00	11/03/00
<b>Chlorinated VOCs</b>	Type 1 RRS				
Tetrachloroethene	µg/L	5	<1	<1	<b>35.4</b>
1,1,1-Trichloroethane	µg/L	200	<1	<1	<1
Trichloroethene	µg/L	5	<1	<1	<b>184.</b>
1,1-Dichloroethene	µg/L	7	<1	<1	<b>9.02</b>
1,2-Dichloroethane	µg/L	5	<1	<1	<1
1,1-Dichloroethane	µg/L	4,000	<1	<1	<1
Chloroethane	µg/L	10*	<1	<1	<1
cis-1,2-Dichloroethene	µg/L	70	<1	<b>0.55 J</b>	<b>1,530 E</b>
trans-1,2-Dichloroethene	µg/L	100	<1	<1	<b>41.5</b>
Vinyl Chloride	µg/L	2	<1	<1	<b>1,150 E</b>
<b>Aromatic Hydrocarbons</b>					
Benzene	µg/L	5	<b>0.98</b>	<1	<b>4.76</b>
Ethylbenzene	µg/L	700	<1	<1	<1
Toluene	µg/L	1,000	<1	<1	<1
Chlorobenzene	µg/L	100	<1	<1	<1
Cyclohexane	µg/L	5*	NA	NA	NA
Naphthalene	µg/L	20	<1	<1	<1
o-xylene	µg/L	10,000	<1	<1	<1
m,p-Xylene	µg/L	10,000	<2	<2	<2
Xylenes, total	µg/L	10,000	NA	NA	NA
Isopropylbenzene	µg/L	5*	<1	<1	<1
<b>Non-Chlorinated VOCs</b>					
Acetone	µg/L	4,000	<20	<20	<20
Bromomethane	µg/L	5*	<b>1.77</b>	<1	<1
Carbon Disulfide	µg/L	5*	<1	<1	<1

**Table D-3. Summary of Groundwater Analyses for Pickering Samples BH-1, BH-2, and BH-3 (2000).**  
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**  
**Atlanta, Georgia**

			BH-1	BH-2	BH-3
			11/03/00	11/03/00	11/03/00
<b>Metals</b>					
Arsenic	mg/L	10	NA	NA	NA
Barium	mg/L	2,000	NA	NA	NA
Beryllium	mg/L	4	NA	NA	NA
Chromium	mg/L	100	NA	NA	NA
Iron	mg/L	NR	NA	NA	NA
Lead	mg/L	15	NA	NA	NA
Manganese	mg/L	NR	NA	NA	NA
Nickel	mg/L	100	NA	NA	NA
Sodium	mg/L	NR	NA	NA	NA
Thallium	mg/L	2	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA
<b>Other</b>					
Chlorides	mg/L	NR	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	NA	NA

Notes:

VOCs-volatile organic compounds

µg/L- micrograms per liter

mg/L-milligrams per liter

NA-not analyzed

\*-Risk Reduction Standard based on Detection limit

NR-Not regulated

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

E-Concentration exceeded the established method calibration range but is within the working range of the instrument

Exceeds Type 1 RRS

Table D-4. Summary of Groundwater Analyses for Law/Bock Samples DP-101, DP-102, DP-103, DP-104, DP-105 and DP-107 (2001).  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			DP-101 4/24/01		DP-102 4/25/01		DP-103 4/24/01		DP-104 4/25/01		DP-105 4/25/01		DP-107 4/25/01	DP-107** 4/25/01
			Law	Bock	Law	Bock	Law	Bock	Law	Bock	Law	Bock	Law	Bock
<b>Chlorinated VOCs</b>														
	Type 1 RRS													
Tetrachloroethene	µg/L	5	25	28.5	75	52.5	130	180	8,500	5,100	3,000	3,060	31	54.7
1,1,1-Trichloroethane	µg/L	200	<2	<1	<2	<1	<2	<2	<2	<1	<2	<1	<2	<1
Trichloroethene	µg/L	5	<2	<1	<2	<1	3.0	<2	38	35.4	3.0	4.7	<2	<1
1,1-Dichloroethene	µg/L	7	<2	<1	<2	<1	<2	<2	<2	<1	<2	<1	<2	<1
1,2-Dichloroethane	µg/L	5	<2	<1	<2	<1	<2	<2	<2	<1	<2	<1	<2	<1
1,1-Dichloroethane	µg/L	4,000	<2	<1	<2	<1	<2	<2	<2	<1	<2	<1	<2	<1
Chloroethane	µg/L	10*	<5	<1	<5	<1	<5	<2	<5	<1	<5	<1	<2	<1
cis-1,2-Dichloroethene	µg/L	70	<2	<1	<2	<1	<2	<2	15	20.3	<2	2.4	<2	<1
trans-1,2-Dichloroethene	µg/L	100	<2	<1	<2	<1	<2	<2	<2	<1	<2	<1	<2	<1
Vinyl Chloride	µg/L	2	<2	<1	<2	<1	<2	<2	<2	<1	<2	<1	<2	<1
<b>Aromatic Hydrocarbons</b>														
Benzene	µg/L	5	<2	<1	<2	<1	<2	<2	<2	<1	<2	<1	<2	<1
Ethylbenzene	µg/L	700	<2	<1	<2	<1	<2	<2	<2	<1	<2	<1	<2	<1
Toluene	µg/L	1,000	<2	<1	<2	<1	<2	<2	2.0	<1	<2	<1	<2	<1
Chlorobenzene	µg/L	100	<10	<1	<10	<1	<10	<2	<10	<1	<10	<1	<10	<1
Cyclohexane	µg/L	5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	µg/L	20	<10	<5	<10	<5	<10	<10	<10	<5	<10	<5	<10	<5
o-xylene	µg/L	10,000	<5	<1	<5	<1	<5	<2	<5	<1	<5	<1	<5	<1
m,p-Xylene	µg/L	10,000	<5	<1	<5	<1	<5	<2	<5	<1	<5	<1	<5	<1
Xylenes, total	µg/L	10,000	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
Isopropylbenzene	µg/L	5*	<10	<1	<10	<1	<10	<2	<10	<1	<10	<1	<10	<1
<b>Non-Chlorinated VOCs</b>														
Acetone	µg/L	4,000	<100	NA	<100	NA	<100	NA	<100	NA	<100	NA	<100	NA
Bromomethane	µg/L	5*	<10	<1	<10	<1	<10	<2	<10	<1	<10	<1	<10	<1
Carbon Disulfide	µg/L	4,000	<10	NA	<10	NA	<10	NA	<10	NA	<10	NA	<10	NA
<b>Metals</b>														
Arsenic	mg/L	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-4. Summary of Groundwater Analyses for Law/Bock Samples DP-101, DP-102, DP-103, DP-104, DP-105 and DP-107 (2001).  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			DP-101 4/24/01		DP-102 4/25/01		DP-103 4/24/01		DP-104 4/25/01		DP-105 4/25/01		DP-107 4/25/01	DP-107** 4/25/01
			Law	Bock	Law	Bock	Law	Bock	Law	Bock	Law	Bock	Law	Bock
Other														
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
\*\*-Reportedly a duplicate sample of DP-104  
Exceeds Type 1 RRS

**Table D-5. Summary of Groundwater Analyses for PZ-1 (2003).**  
**ARAMARK DeKalb Avenue VRP/HSI Site No. 10704**  
**Atlanta, Georgia**

			PZ-1
			04/09/03
<b>Chlorinated VOCs</b>		Type 1 RRS	
Tetrachloroethene	µg/L	5	<b>6.7</b>
1,1,1-Trichloroethane	µg/L	200	NA
Trichloroethene	µg/L	5	<5
1,1-Dichloroethene	µg/L	7	<5
1,2-Dichloroethane	µg/L	5	<5
1,1-Dichloroethane	µg/L	4,000	<5
Chloroethane	µg/L	10*	<5
cis-1,2-Dichloroethene	µg/L	70	<5
trans-1,2-Dichloroethene	µg/L	100	<5
Vinyl Chloride	µg/L	2	<2
<b>Aromatic Hydrocarbons</b>			
Benzene	µg/L	5	<5
Ethylbenzene	µg/L	700	<5
Toluene	µg/L	1,000	<5
Chlorobenzene	µg/L	100	NA
Cyclohexane	µg/L	5*	NA
Naphthalene	µg/L	20	<5
o-xylene	µg/L	10,000	NA
m,p-Xylene	µg/L	10,000	NA
Xylenes, total	µg/L	10,000	<15
Isopropylbenzene	µg/L	5*	<5
<b>Non-Chlorinated VOCs</b>			
Acetone	µg/L	4,000	NA
Bromomethane	µg/L	5*	NA
Carbon Disulfide	µg/L	4,000	NA

**Table D-5. Summary of Groundwater Analyses for PZ-1 (2003).  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia**

			PZ-1
			04/09/03
<b>Metals</b>			
Arsenic	mg/L	10	NA
Barium	mg/L	2,000	NA
Beryllium	mg/L	4	NA
Chromium	mg/L	100	NA
Iron	mg/L	NR	NA
Lead	mg/L	15	NA
Manganese	mg/L	NR	NA
Nickel	mg/L	100	NA
Sodium	mg/L	NR	NA
Thallium	mg/L	2	NA
Zinc	mg/L	2,000	NA
<b>Other</b>			
Chlorides	mg/L	NR	NA
Nitrate (N)	mg/L	NR	NA
Nitrite (N)	mg/L	NR	NA
Sulfate	mg/L	NR	NA
Potassium Permanganate	mg/L	NR	NA

Notes:

RRS-Risk Reduction Standard

VOCs-volatile organic compounds

µg/L- micrograms per liter

mg/L-milligrams per liter

NA-not analyzed

\*-Risk Reduction Standard based on Detection limit

NR-Not regulated

Exceeds Type 1 RRS

Table D-6. Summary of Groundwater Analyses for MW-101, MW-102, MW-103, MW-103D, MW-104, MW-106, MW-107, and MW-108.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-101					MW-102					MW-103				
			04/26/01	4/26/01*	04/22/03	04/07/04	07/12/05	04/27/01	4/27/01*	03/04/03	04/07/04	07/13/05	04/26/01	4/26/01*	03/04/03	04/07/04	06/09/05
Chlorinated VOCs																	
Tetrachloroethene	µg/L	5	1,700	1,680	35,000	29,000	25,100	2,700	3,300	8,400	850	1,140	14,000	16,200	6,700	9,100	6,900
1,1,1-Trichloroethane	µg/L	200	<2	<1	<5	NA	NA	<2	<20	NA	NA	NA	<2	<1	NA	NA	<1
Trichloroethene	µg/L	5	20	21.5	170	210	150	65	62	26	<5	14	280	315	1,500	320	590
1,1-Dichloroethene	µg/L	7	<2	<1	<5	<5	<5	<2	<20	<5	<5	<5	4.0	7.5	<5	<5	2.8
1,2-Dichloroethane	µg/L	5	<2	<1	<5	<5	<5	<2	<20	<5	<5	<5	<2	<1	<5	<5	<1
1,1-Dichloroethane	µg/L	4,000	<2	<1	<5	<5	<5	<2	<20	<5	<5	<5	3.0	4.8	<5	<5	1.3
Chloroethane	µg/L	10*	<5	<1	<5	<5	<10	<5	<20	<5	<5	<10	<5	<1	<5	<5	<1
cis-1,2-Dichloroethene	µg/L	70	<2	2.2	5.2	5.2	6.2	47	56	9.3	<5	<5	3,400	3,220	1,700	3,200	3,000
trans-1,2-Dichloroethene	µg/L	100	<2	<1	<5	<5	<5	<2	<20	<5	<5	<5	9.0	24.8	<5	6.8	6.6
Vinyl Chloride	µg/L	2	<2	<1	<2	<2	<2	<2	<20	<2	<2	<2	3.0	5.9	15	25	33
Aromatic Hydrocarbons																	
Benzene	µg/L	5	<2	<1	<5	<5	<5	<2	<20	<5	<5	<5	<2	2.3	<5	<5	2.2
Ethylbenzene	µg/L	700	<2	<1	<5	<5	<5	<2	<20	<5	<5	<5	19	25.2	24	12	15
Toluene	µg/L	1,000	<2	<1	<5	<5	<5	<2	<20	<5	<5	<5	4.0	5.4	<5	<5	1.1
Chlorobenzene	µg/L	100	<10	<1	NA	NA	NA	<10	<20	NA	NA	NA	<10	<1	NA	NA	<1
Cyclohexane	µg/L	5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	µg/L	20	<10	<5	<5	<5	<5	<10	<100	<5	<5	<5	19	14.9	22	12	10
o-xylene	µg/L	10,000	<5	<1	NA	NA	NA	<5	<20	NA	NA	NA	100	125	NA	NA	NA
m,p-Xylene	µg/L	10,000	<5	<1	NA	NA	NA	<5	<20	NA	NA	NA	69	85.5	NA	NA	NA
Xylenes, total	µg/L	10,000	<5	NA	<15	<15	<15	<5	NA	<15	<15	<15	170	NA	260	180	160 E
Isopropylbenzene	µg/L	5*	<10	<1	<5	<5	<5	<10	<20	<5	<5	<5	41	46.5	50	39	39
Non-Chlorinated VOCs																	
Acetone	µg/L	4,000	<100	NA	NA	NA	NA	<100	NA	NA	NA	NA	<100	NA	NA	NA	NA
Bromomethane	µg/L	5*	<10	<1	NA	NA	NA	<10	<20	NA	NA	NA	<10	<1	NA	NA	NA
Carbon Disulfide	µg/L	4,000	<10	NA	NA	NA	NA	<10	NA	NA	NA	NA	<10	NA	NA	NA	NA
Metals																	
Arsenic	mg/L	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.005
Barium	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00156
Chromium	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.005
Iron	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001
Manganese	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00976
Sodium	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0034
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0538



Table D-6. Summary of Groundwater Analyses for MW-101, MW-102, MW-103, MW-103D, MW-104, MW-106, MW-107, and MW-108.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-101					MW-102					MW-103				
			04/26/01	4/26/01*	04/22/03	04/07/04	07/12/05	04/27/01	4/27/01*	03/04/03	04/07/04	07/13/05	04/26/01	4/26/01*	03/04/03	04/07/04	06/09/05
Other																	
Chlorides	mg/L	NR	NA	NA	NA	NA	43.5	NA	NA	NA	NA	65.1	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	30.9	NA	NA	NA	NA	12.8	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	<0.10	NA	NA	NA	NA	<0.10	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	157	NA	NA	NA	NA	9.0	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

Table D-6. Summary of Groundwater Analyses for MW-101, MW-102, MW-103, MW-103D, MW-104, MW-106, MW-107, and MW-108.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-103D			MW-104						MW-106			MW-107			
			04/22/03	04/06/04	10/11/05	03/04/03	04/05/04	10/12/05	01/25/06	04/11/06	04/20/06	04/07/04	04/11/06	04/20/06	03/04/03	04/22/03	04/07/04	04/12/06
<b>Chlorinated VOCs</b>																		
Type 1 RRS	Tetrachloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	1,1,1-Trichloroethane	µg/L	200	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	<5	NA	NA	NA	NA
	Trichloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	Chloroethane	µg/L	10*	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10	<10	<5	<5	<5	<10
	cis-1,2-Dichloroethene	µg/L	70	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	Vinyl Chloride	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
<b>Aromatic Hydrocarbons</b>																		
	Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	Chlorobenzene	µg/L	100	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	<5	NA	NA	NA	NA
	Cyclohexane	µg/L	5*	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	<5	NA	NA	NA	NA
	Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	o-xylene	µg/L	10,000	NA	NA	NA	NA	NA	NA	<5	<5	NA	<5	<5	NA	NA	NA	<5
	m,p-Xylene	µg/L	10,000	NA	NA	NA	NA	NA	NA	<5	<10	NA	<5	<10	NA	NA	NA	<5
	Xylenes, total	µg/L	10,000	<15	<15	<5	<15	<15	<15	NA	NA	<15	NA	NA	<15	<15	<15	NA
	Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
<b>Non-Chlorinated VOCs</b>																		
	Acetone	µg/L	4,000	NA	NA	NA	NA	NA	NA	NA	<50	NA	NA	<50	NA	NA	NA	NA
	Bromomethane	µg/L	5*	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	<5	NA	NA	NA	NA
	Carbon Disulfide	µg/L	4,000	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	<5	NA	NA	NA	NA
<b>Metals</b>																		
	Arsenic	mg/L	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	mg/L	100	NA	NA	<0.010	NA	NA	<b>0.014</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Iron	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	mg/L	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Manganese	mg/L	NR	NA	NA	<b>0.11</b>	NA	NA	<b>2.2</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Sodium	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-6. Summary of Groundwater Analyses for MW-101, MW-102, MW-103, MW-103D, MW-104, MW-106, MW-107, and MW-108.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-103D			MW-104						MW-106			MW-107			
			04/22/03	04/06/04	10/11/05	03/04/03	04/05/04	10/12/05	01/25/06	04/11/06	04/20/06	04/07/04	04/11/06	04/20/06	03/04/03	04/22/03	04/07/04	04/12/06
Other																		
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

Table D-6. Summary of Groundwater Analyses for MW-101, MW-102, MW-103, MW-103D, MW-104, MW-106, MW-107, and MW-108.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-108				
			03/04/03	04/07/04	07/13/05	01/25/06	04/11/06
Type 1 RRS							
Chlorinated VOCs							
Tetrachloroethene	µg/L	5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	µg/L	200	NA	NA	NA	NA	NA
Trichloroethene	µg/L	5	<5	<5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5
Chloroethane	µg/L	10*	<5	<5	<5	<5	<10
cis-1,2-Dichloroethene	µg/L	70	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	<2	<2	<2	<2
Aromatic Hydrocarbons							
Benzene	µg/L	5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	NA	NA	NA	NA	NA
Cyclohexane	µg/L	5*	NA	NA	NA	NA	NA
Naphthalene	µg/L	20	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	NA	NA	NA	NA	<5
m,p-Xylene	µg/L	10,000	NA	NA	NA	NA	<5
Xylenes, total	µg/L	10,000	<15	<15	<15	<5	NA
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5
Non-Chlorinated VOCs							
Acetone	µg/L	4,000	NA	NA	NA	NA	NA
Bromomethane	µg/L	5*	NA	NA	NA	NA	NA
Carbon Disulfide	µg/L	4,000	NA	NA	NA	NA	NA
Metals							
Arsenic	mg/L	10	NA	NA	NA	NA	<0.010
Barium	mg/L	2,000	NA	NA	NA	NA	<b>0.04</b>
Beryllium	mg/L	4	NA	NA	NA	NA	NA
Chromium	mg/L	100	NA	NA	NA	NA	<0.010
Iron	mg/L	NR	NA	NA	NA	NA	<b>5.23</b>
Lead	mg/L	15	NA	NA	NA	NA	<0.010
Manganese	mg/L	NR	NA	NA	NA	NA	<b>6.44</b>
Nickel	mg/L	100	NA	NA	NA	NA	NA
Sodium	mg/L	NR	NA	NA	NA	NA	<b>14.6</b>
Thallium	mg/L	2	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA

Table D-6. Summary of Groundwater Analyses for MW-101, MW-102, MW-103, MW-103D, MW-104, MW-106, MW-107, and MW-108.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-108				
			03/04/03	04/07/04	07/13/05	01/25/06	04/11/06
Other							
Chlorides	mg/L	NR	NA	NA	21.6	NA	26.1
Nitrate (N)	mg/L	NR	NA	NA	<0.10	NA	<0.10
Nitrite (N)	mg/L	NR	NA	NA	<0.10	NA	<0.10
Sulfate	mg/L	NR	NA	NA	203	NA	191
Potassium Permanganate	mg/L	NR	NA	NA	NA	NA	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

Table D-7. Summary of Groundwater Analyses for MW-109, MW-1110, and MW-111.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-109												
			03/04/03	04/07/04	07/13/05	10/11/05	01/26/06	04/12/06	08/18/06	11/09/06	02/09/07	05/31/07	09/19/07	12/06/07	03/11/08
Type 1 RRS															
Chlorinated VOCs															
Tetrachloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25	<5
1,1,1-Trichloroethane	µg/L	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25	<5
1,1-Dichloroethene	µg/L	7	<5	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25	<5
Chloroethane	µg/L	10*	<5	<5	<10	<10	<5	<10	<10	<10	22	9.5 J	7 J	<25	<10
cis-1,2-Dichloroethene	µg/L	70	1,200	680	347	328	320	372	<5	<5	5.9	<5	<5	<25	<5
trans-1,2-Dichloroethene	µg/L	100	21	12.0	7.7	5.5	5.8	4.0 J	<5	<5	<5	<5	<5	<25	<5
Vinyl Chloride	µg/L	2	800	900	733	508	260	743	<2	<2	<2	<2	<2	<10	<2
Aromatic Hydrocarbons															
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25	<5
Chlorobenzene	µg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	µg/L	5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25	<5
o-xylene	µg/L	10,000	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	<5
m,p-Xylene	µg/L	10,000	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	<5
Xylenes, total	µg/L	10,000	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<25	NA
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25	<5
Non-Chlorinated VOCs															
2-Butanone	µg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	µg/L	4,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	µg/L	5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	µg/L	4,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals															
Arsenic	mg/L	10	NA	NA	NA	NA	NA	NA	0.013	<0.010	<0.010	NA	<0.010	NA	NA
Barium	mg/L	2,000	NA	NA	NA	NA	NA	NA	0.073	0.023	0.033	NA	<0.020	NA	<0.020
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	NA	NA	NA	0.013	NA	NA	0.056	0.043	0.01	0.024	0.017	<0.05	<0.010
Iron	mg/L	NR	NA	NA	NA	NA	NA	NA	2.89	0.811	0.943	0.304	0.212	0.1	0.217
Lead	mg/L	15	NA	NA	NA	NA	NA	NA	0.018	0.009 J	0.024	<0.010	<0.010	<0.01	<0.010
Manganese	mg/L	NR	NA	NA	NA	1.96	NA	NA	70.3	54.6	14.4	59.7	32.3	14.8	5.8
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	NA	NA	NA	NA	NA	NA	1,290	665	386	542	337	410	319
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-7. Summary of Groundwater Analyses for MW-109, MW-1110, and MW-111.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			03/04/03	04/07/04	07/13/05	10/11/05	01/26/06	04/12/06	MW-109 08/18/06	11/09/06	02/09/07	05/31/07	09/19/07	12/06/07	03/11/08
Other															
Chlorides	mg/L	NR	NA	NA	15	NA	NA	11.9	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	<0.10	NA	NA	<0.010	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	<0.10	NA	NA	<0.010	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	313	NA	NA	23.3	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	180	100	NA	73

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
Exceeds Type 1 RRS  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated

J- Estimated value. Presence of the compound was confirmed  
but less than the reported detection limit

Table D-7. Summary of Groundwater Analyses for MW-109, MW-1110, and MW-111.																		
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704																		
Atlanta, Georgia																		
			MW-109						MW-110									
			06/08/08	09/11/08	08/07/09	12/01/09	06/02/11	07/18/13	01/13/14	03/04/03	04/06/04	1/26/06	04/11/06	08/17/06	02/08/07	05/30/07	09/18/07	03/10/08
Type 1 RRS																		
Chlorinated VOCs																		
Tetrachloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	2.2 J
1,1,1-Trichloroethane	µg/L	200	NA	NA	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	µg/L	5	4.7 J	12	6.3	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	10*	<10	<10	<4	<4	<4	<4	<4	<5	<5	<5	<10	<10	<10	<10	<10	<10
cis-1,2-Dichloroethene	µg/L	70	145	389	520	29	37	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	8	40	110	10	24	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Aromatic Hydrocarbons																		
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	NA	NA	<5	NA	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	µg/L	5*	NA	NA	<5	NA	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	<5	<5	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	<5	<5	<5	<5	<5	<5
Xylenes, total	µg/L	10,000	NA	NA	NA	<5	NA	NA	NA	<5	<5	<5	NA	NA	NA	NA	NA	NA
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs																		
2-Butanone	µg/L	2,000	NA	NA	<50	NA	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	µg/L	4,000	NA	NA	<50	NA	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	µg/L	5*	NA	NA	<5	NA	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	µg/L	4,000	NA	NA	<5	NA	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																		
Arsenic	mg/L	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.010	NA	NA	NA	NA
Barium	mg/L	2,000	0.034	0.016	NA	0.175	NA	NA	NA	NA	NA	NA	NA	0.086	NA	NA	NA	NA
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	<0.010	<0.010	NA	<0.050	NA	NA	NA	NA	NA	NA	NA	<0.010	NA	NA	NA	NA
Iron	mg/L	NR	0.084 J	0.267	NA	2.08	NA	NA	NA	NA	NA	NA	NA	<0.100	NA	NA	NA	NA
Lead	mg/L	15	<0.010	<0.010	NA	<0.010	NA	NA	NA	NA	NA	NA	NA	<0.010	NA	NA	NA	NA
Manganese	mg/L	NR	1.47	2.85	NA	10.9	NA	NA	NA	NA	NA	NA	NA	7.96	NA	NA	NA	NA
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	239	190	NA	157	NA	NA	NA	NA	NA	NA	NA	9.06	NA	NA	NA	NA
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



Table D-7. Summary of Groundwater Analyses for MW-109, MW-110, and MW-111.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-109							MW-110								
			06/08/08	09/11/08	08/07/09	12/01/09	06/02/11	07/18/13	01/13/14	03/04/03	04/06/04	1/26/06	04/11/06	08/17/06	02/08/07	05/30/07	09/18/07	03/10/08
Other																		
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	0.89	0.89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
Exceeds Type 1 RRS  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

Table D-7. Summary of Groundwater Analyses for MW-109, MW-1110, and MW-111.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-110						MW-111			
			06/09/08	09/09/08	12/01/09	06/01/11	07/18/13	01/10/14	12/01/09	06/01/11	07/18/13	01/10/14
Chlorinated VOCs												
Tetrachloroethene	µg/L	5	<5	4.3 J	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	µg/L	200	NA	NA	NA	<5	<5	<5	NA	<5	<5	<5
Trichloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	10*	<10	<10	<4	<4	<4	<4	<4	<4	<4	<4
cis-1,2-Dichloroethene	µg/L	70	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Aromatic Hydrocarbons												
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	NA	NA	NA	<5	<5	<5	NA	<5	<5	<5
Cyclohexane	µg/L	5*	NA	NA	NA	<5	<5	<5	NA	<5	<5	<5
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Xylenes, total	µg/L	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs												
2-Butanone	µg/L	2,000	NA	NA	<50	<50	<50	<50	<50	<50	<50	<50
Acetone	µg/L	4,000	NA	NA	NA	<50	<50	<50	NA	<50	<50	<50
Bromomethane	µg/L	5*	NA	NA	NA	<5	<5	<5	NA	<5	<5	<5
Carbon Disulfide	µg/L	4,000	NA	NA	NA	<5	<5	<5	NA	<5	<5	<5
Metals												
Arsenic	mg/L	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-7. Summary of Groundwater Analyses for MW-109, MW-1110, and MW-111.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-110						MW-111			
			06/09/08	09/09/08	12/01/09	06/01/11	07/18/13	01/10/14	12/01/09	06/01/11	07/18/13	01/10/14
Other												
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
Exceeds Type 1 RRS  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated

J- Estimated value. Presence of the compound was confirmed  
but less than the reported detection limit

Table D-8. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-201				MW-202							
			04/22/03	04/06/04	07/14/05	10/11/05	04/22/03	04/05/04	06/09/05	07/14/05	01/25/06	04/12/06	08/15/06	11/08/06
Chlorinated VOCs														
Tetrachloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	2.2	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	µg/L	200	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA
Trichloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<1	<5	<5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<1	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<1	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<1	<5	<5	<5	<5	<5
Chloroethane	µg/L	10*	<5	<5	<10	<10	<5	<5	<1	<10	<10	<10	<10	<10
cis-1,2-Dichloroethene	µg/L	70	<5	<5	<5	<5	<5	<5	<1	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5	<1	<5	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2
Aromatic Hydrocarbons														
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<1	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<1	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<1	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA
Cyclohexane	µg/L	5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5
Xylenes, total	µg/L	10,000	<15	<5	<5	<5	<15	<5	NA	NA	NA	NA	NA	NA
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5
Non-Chlorinated VOCs														
2-Butanone	µg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	µg/L	4,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	µg/L	5*	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA
Carbon Disulfide	µg/L	4,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals														
Arsenic	mg/L	10	NA	NA	NA	NA	NA	NA	<0.005	NA	NA	NA	<0.010	<0.010
Barium	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.043	0.045
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	<0.001	NA	NA	NA	NA	NA
Chromium	mg/L	100	NA	NA	NA	<0.010	NA	NA	<0.005	NA	NA	NA	<0.010	<0.010
Iron	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.100	<0.100
Lead	mg/L	15	NA	NA	NA	NA	NA	NA	<0.001	NA	NA	NA	<0.010	<0.010
Manganese	mg/L	NR	NA	NA	NA	1.46	NA	NA	NA	NA	NA	NA	1.02	0.939
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	<0.005	NA	NA	NA	NA	NA
Sodium	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.42	8.79
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	<0.002	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	0.0135	NA	NA	NA	NA	NA

Table D-8. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-201				MW-202							
			04/22/03	04/06/04	07/14/05	10/11/05	04/22/03	04/05/04	06/09/05	07/14/05	01/25/06	04/12/06	08/15/06	11/08/06
Other														
Chlorides	mg/L	NR	NA	NA	NA	14.2	NA	NA	NA	7.8	65.1	5.6	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	5.2	NA	NA	NA	1.1	12.8	0.31	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	<0.10	NA	NA	NA	<0.1	<0.10	<0.10	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	159	NA	NA	NA	107	9.0	122	NA	NA
Potassium Permanganate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

Table D-8. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-202										MW-203									
			02/08/07	05/30/07	09/18/07	03/06/08	06/05/08	9/9/08	12/01/09	06/02/11	07/17/13	01/10/14	04/22/03	04/06/04	01/25/06	04/12/06	04/20/06	09/21/06	11/08/06	02/08/07	05/30/07	
Type 1 RRS																						
Chlorinated VOCs																						
Tetrachloroethene	µg/L	5	<5	<5	<5	2.6 J	<5	2.9 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	3.5 J	<5	<5	
1,1,1-Trichloroethane	µg/L	200	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	NA	NA	NA	NA	<5	NA	NA	NA	NA	
Trichloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	4.0 J	4.2 J	4.7 J	3.7 J	
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Chloroethane	µg/L	10*	<10	<10	<10	<10	<10	<10	<4	<4	<4	<4	<5	<5	<5	<10	<10	<10	<10	<10	<10	
cis-1,2-Dichloroethene	µg/L	70	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Vinyl Chloride	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Aromatic Hydrocarbons																						
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Chlorobenzene	µg/L	100	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	NA	NA	NA	NA	<5	NA	NA	NA	NA	
Cyclohexane	µg/L	5*	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	NA	NA	NA	NA	<5	NA	NA	NA	NA	
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
o-xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	<5	<5	<5	<5	<5	<5	
m,p-Xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	<5	<5	<5	<5	<5	<5	
Xylenes, total	µg/L	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<15	<5	<5	NA	NA	NA	NA	NA	NA	
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Non-Chlorinated VOCs																						
2-Butanone	µg/L	2,000	NA	NA	NA	NA	NA	NA	NA	<50	<50	<50	NA	NA	NA	NA	<50	NA	NA	NA	NA	
Acetone	µg/L	4,000	NA	NA	NA	NA	NA	NA	NA	<50	<50	<50	NA	NA	NA	NA	<50	NA	NA	NA	NA	
Bromomethane	µg/L	5*	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	NA	NA	NA	NA	<5	NA	NA	NA	NA	
Carbon Disulfide	µg/L	4,000	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	NA	NA	NA	NA	<5	NA	NA	NA	NA	
Metals																						
Arsenic	mg/L	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.010	NA	
Barium	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.047	NA	0.051	NA	
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	mg/L	100	NA	NA	<0.010	NA	NA	0.014	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.010	NA	<0.010	<0.010	
Iron	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.273	0.137	
Lead	mg/L	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.010	<0.010	
Manganese	mg/L	NR	NA	NA	0.11	NA	NA	2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.418	NA	0.294	0.428	
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.73	NA	8.72	10.3	
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Table D-8. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-202										MW-203									
			02/08/07	05/30/07	09/18/07	03/06/08	06/05/08	9/9/08	12/01/09	06/02/11	07/17/13	01/10/14	04/22/03	04/06/04	01/25/06	04/12/06	04/20/06	09/21/06	11/08/06	02/08/07	05/30/07	
Other																						
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.5	31.5	65.1	5.6	NA	NA	
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.84	0.84	12.8	0.31	NA	NA	
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.10	<0.10	NA	NA	
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	105	105	9.0	122	NA	NA	
Potassium Permanganate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed  
but less than the reported detection limit

Table D-8. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			09/18/07	12/05/07	03/07/08	MW-203 06/05/08	09/10/08	12/1/09	06/02/11	05/07/03	04/06/04	07/14/05	MW-204 10/11/05	01/25/06	04/13/06	08/15/06	11/08/06
Type 1 RRS																	
Chlorinated VOCs																	
Tetrachloroethene	µg/L	5	<5	<5	6.0	<5	2.7 J	<5	<5	<5	<5	<5	<5	<5	<5	2.7 J	2.0 J
1,1,1-Trichloroethane	µg/L	200	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	µg/L	5	<5	<5	6.8	<5	3.8 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	10*	<10	<10	<10	<10	<10	<4	<4	<5	<5	<10	<10	<5	<10	<10	<10
cis-1,2-Dichloroethene	µg/L	70	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Aromatic Hydrocarbons																	
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	µg/L	5*	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	<5	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	<5	<5	<5	<5	<5
Xylenes, total	µg/L	10,000	NA	NA	NA	NA	NA	NA	NA	<15	<5	<5	NA	NA	NA	NA	NA
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs																	
2-Butanone	µg/L	2,000	NA	NA	NA	NA	NA	NA	<50	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	µg/L	4,000	NA	NA	NA	NA	NA	NA	<50	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	µg/L	5*	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	µg/L	4,000	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Metals																	
Arsenic	mg/L	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.010	<0.010
Barium	mg/L	2,000	0.046	NA	0.044	0.043	0.039	<0.05	NA	NA	NA	NA	NA	0.047	NA	0.119	0.097
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	<0.010	<0.005	<0.010	<0.010	<0.010	<0.05	NA	NA	NA	NA	<0.010	<0.010	NA	<0.010	<0.010
Iron	mg/L	NR	0.181	0.367	0.339	0.107	0.087 J	<0.1	NA	NA	NA	NA	NA	NA	NA	<0.100	0.088 J
Lead	mg/L	15	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	NA	NA	NA	NA	NA	NA	NA	<0.010	<0.010
Manganese	mg/L	NR	0.326	0.261	0.409	0.368	0.394	0.451	NA	NA	NA	NA	1.55	0.418	NA	0.975	0.887
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	7.99	12.2	12	8.28	8.77	7.1	NA	NA	NA	NA	NA	9.73	NA	2.63	2.07
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



Table D-8. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			09/18/07	12/05/07	03/07/08	MW-203 06/05/08	09/10/08	12/1/09	06/02/11	05/07/03	04/06/04	07/14/05	MW-204 10/11/05	01/25/06	04/13/06	08/15/06	11/08/06
Other																	
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.3	NA	NA	6.2	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1	NA	NA	2.40	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10	NA	NA	<0.10	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	69	NA	NA	95	NA	NA
Potassium Permanganate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed  
but less than the reported detection limit

Table D-8. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			02/08/07	04/23/07	05/31/07	09/18/07	12/05/07	3/7/08	MW-204 6/6/08	9/10/08	8/7/09	12/3/09	06/02/11	07/18/13	01/10/14
Chlorinated VOCs															
Tetrachloroethene	µg/L	5	4.0 J	5.6	5.3	6.4	5.1	8.7	8.5	7.9	10	12	7.9	8.5	7.9
1,1,1-Trichloroethane	µg/L	200	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5
Trichloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	10*	<10	<10	<10	<10	<10	<10	<10	<10	<4	<4	<4	<4	<4
cis-1,2-Dichloroethene	µg/L	70	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Aromatic Hydrocarbons															
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5
Cyclohexane	µg/L	5*	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Xylenes, total	µg/L	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs															
2-Butanone	µg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	<50	<50	<50	<50	<50
Acetone	µg/L	4,000	NA	NA	NA	NA	NA	NA	NA	NA	<50	<50	<50	<50	<50
Bromomethane	µg/L	5*	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5
Carbon Disulfide	µg/L	4,000	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5
Metals															
Arsenic	mg/L	10	<0.010	NA	NA	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	2,000	0.126	NA	NA	0.216	NA	0.413	0.347	0.34	NA	0.29	NA	NA	NA
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	<0.010	NA	<0.010	<0.010	<0.05	<0.010	<0.010	<0.010	NA	<0.05	NA	NA	NA
Iron	mg/L	NR	0.072 J	NA	<0.100	0.223	0.855	<0.100	<0.100	<0.100	NA	1.5	NA	NA	NA
Lead	mg/L	15	<0.010	NA	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01	NA	<0.01	NA	NA	NA
Manganese	mg/L	NR	0.809	NA	0.844	0.538	0.327	0.454	0.534	0.566	NA	1.08	NA	NA	NA
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	2.82	NA	3.28	4.59	8.22	8.11	7.02	7.1	NA	7.1	NA	NA	NA
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-8. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			02/08/07	04/23/07	05/31/07	09/18/07	12/05/07	3/7/08	MW-204 6/6/08	9/10/08	8/7/09	12/3/09	06/02/11	07/18/13	01/10/14
Other															
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	NA	0.89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

Table D-8. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-205															
			04/07/04	07/14/05	01/25/06	04/13/06	04/20/06	08/15/06	11/09/06	02/08/07	05/31/07	09/19/07	12/05/07	3/6/08	6/9/08	9/9/08	8/7/09	12/3/09
Type 1 RRS																		
Chlorinated VOCs																		
Tetrachloroethene	µg/L	5	5.7	7.6	6.8	18	23	19	20	22	25	22	15	25	22	23	26	22
1,1,1-Trichloroethane	µg/L	200	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5
Trichloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1.4	<5	<5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	10*	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<4	<4
cis-1,2-Dichloroethene	µg/L	70	<5	<5	<5	<5	5.9	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Aromatic Hydrocarbons																		
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5
Cyclohexane	µg/L	5*	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Xylenes, total	µg/L	10,000	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs																		
2-Butanone	µg/L	2,000	NA	NA	NA	NA	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<50
Acetone	µg/L	4,000	NA	NA	NA	NA	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<50
Bromomethane	µg/L	5*	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5
Carbon Disulfide	µg/L	4,000	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5
Metals																		
Arsenic	mg/L	10	NA	NA	NA	NA	NA	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	2,000	NA	NA	NA	NA	NA	0.057	0.063	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	NA	NA	NA	NA	NA	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NR	NA	NA	NA	NA	NA	<0.100	<0.100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	15	NA	NA	NA	NA	NA	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NR	NA	NA	NA	NA	NA	<0.050	<0.050	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	NA	NA	NA	NA	NA	5.75	5.73	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-8. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-205																
			04/07/04	07/14/05	01/25/06	04/13/06	04/20/06	08/15/06	11/09/06	02/08/07	05/31/07	09/19/07	12/05/07	3/6/08	6/9/08	9/9/08	8/7/09	12/3/09	
Other																			
Chlorides	mg/L	NR	NA	7.8	NA	4.8	NA	6.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrate (N)	mg/L	NR	NA	0.4	NA	2.41	NA	2.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrite (N)	mg/L	NR	NA	<0.10	NA	<0.10	NA	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sulfate	mg/L	NR	NA	35	NA	51	NA	95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Potassium Permanganate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

Table D-8. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-205		MW-206															
			06/01/11	10/08/12	08/06/04	01/25/06	04/12/06	08/16/06	11/09/06	02/08/07	05/31/07	09/18/07	3/6/08	6/9/08	9/9/08	12/1/09	06/02/11	10/08/12	07/18/13	01/27/14
Type 1 RRS																				
Chlorinated VOCs																				
Tetrachloroethene	µg/L	5	21	23	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	µg/L	200	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5
Trichloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	10*	<4	<4	<5	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<4	<4	<4	<4	<4
cis-1,2-Dichloroethene	µg/L	70	<5	<5	<5	22	12	9.6	10	8.2	6.5	7.0	5.6	6.7	6.2	13	10	<5	23	11
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Aromatic Hydrocarbons																				
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5
Cyclohexane	µg/L	5*	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	<5	<5	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	<5	<5	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Xylenes, total	µg/L	10,000	NA	NA	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs																				
2-Butanone	µg/L	2,000	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<50	<50	<50
Acetone	µg/L	4,000	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<50	<50	<50
Bromomethane	µg/L	5*	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5
Carbon Disulfide	µg/L	4,000	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5
Metals																				
Arsenic	mg/L	10	NA	NA	NA	NA	NA	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	2,000	NA	NA	NA	NA	NA	0.034	0.032	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	NA	NA	NA	NA	NA	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NR	NA	NA	NA	NA	NA	16.1	12.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	15	NA	NA	NA	NA	NA	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NR	NA	NA	NA	NA	NA	3.48	3.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	NA	NA	NA	NA	NA	53.5	49.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-8. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-205		MW-206															
			06/01/11	10/08/12	08/06/04	01/25/06	04/12/06	08/16/06	11/09/06	02/08/07	05/31/07	09/18/07	3/6/08	6/9/08	9/9/08	12/1/09	06/02/11	10/08/12	07/18/13	01/27/14
Other																				
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	8.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

Table D-8. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-207				MW-207								MW-207P				
			09/02/05	04/11/06	08/17/06	11/09/06	02/09/07	05/31/07	09/19/07	12/06/07	03/07/08	6/9/08	9/11/08	8/7/09	12/04/09	05/15/06	09/21/06	11/09/06	02/08/07
Type 1 RRS																			
Chlorinated VOCs																			
Tetrachloroethene	µg/L	5	9.4	54	<5	<5	80	125	37	<25	58	77	59	79	110	10	13	10	9.5
1,1,1-Trichloroethane	µg/L	200	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	NA	NA	NA	NA
Trichloroethene	µg/L	5	<5	247	<5	<5	<5	183	<5	<25	24	243	220	180	270	<5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	10*	<10	<10	<10	<10	<10	<10	<10	<25	<10	<10	<10	<4	<4	<10	<10	<10	<10
cis-1,2-Dichloroethene	µg/L	70	<5	540	<5	<5	<5	179	<5	<25	14	443	448	560	860	<5	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	21	<5	<5	<5	<5	<5	<25	<5	9.3	12	13	19	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	90	<2	<2	<2	<2	<2	<10	<2	16	22	35	72	<2	<2	<2	<2
Aromatic Hydrocarbons																			
Benzene	µg/L	5	<5	<5	2.9 J	3.3 J	3.1 J	<5	2.4 J	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	NA	NA	NA	NA
Cyclohexane	µg/L	5*	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	NA	NA	NA	NA
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	NA	NA	NA	NA
m,p-Xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<5	<5	NA	NA	NA	NA
Xylenes, total	µg/L	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs																			
2-Butanone	µg/L	2,000	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<50	NA	NA	NA	NA
Acetone	µg/L	4,000	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<50	NA	NA	NA	NA
Bromomethane	µg/L	5*	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	NA	NA	NA	NA
Carbon Disulfide	µg/L	4,000	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	NA	NA	NA	NA
Metals																			
Arsenic	mg/L	10	<0.010	<0.010	<0.010	<0.010	<0.010	NA	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	2,000	0.048	0.048	0.021	0.020	0.020	NA	0.021	NA	0.052	0.036	0.037	NA	NA	NA	0.086	NA	NA
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	<0.010	<0.010	0.038	0.016	0.013	<0.010	0.018	<0.05	0.024	0.023	0.027	NA	NA	NA	<0.010	NA	NA
Iron	mg/L	NR	0.487	0.487	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.876	<0.100	<0.100	NA	NA	NA	NA	NA	NA
Lead	mg/L	15	<0.010	<0.010	0.028	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NR	0.667	0.667	274	65.7	7.33	2.16	3.52	16.3	4.61	0.178	0.349	NA	NA	NA	0.027 J	NA	NA
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	13.2	13.2	202	60	41.8	29.6	34.9	48.7	41.5	36.7	39.1	NA	NA	NA	7.31	NA	NA
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



Table D-8. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-207				MW-207								MW-207P				
			09/02/05	04/11/06	08/17/06	11/09/06	02/09/07	05/31/07	09/19/07	12/06/07	03/07/08	6/9/08	9/11/08	8/7/09	12/04/09	05/15/06	09/21/06	11/09/06	02/08/07
Other																			
Chlorides	mg/L	NR	14.6	14.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	0.65	0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	<0.10	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	103	103	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	NA	NA	NA	NA	8.0	11	NA	3.9	0.89	0.89	NA	NA	NA	NA	NA	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

Table D-8. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-207P									MW-208									
			05/30/07	09/19/07	03/06/08	6/5/08	9/10/08	12/3/09	06/02/11	07/18/13	01/16/14	09/02/05	04/13/06	08/16/06	11/09/06	02/09/07	04/23/07	05/31/07	5/31/07 Dup	9/19/07	12/5/07
Type 1 RRS																					
Chlorinated VOCs																					
Tetrachloroethene	µg/L	5	18	18	8.7	13	19	11	9.8	12.0	5.9	<5	14	14	16	23	34	43	37	87	100
1,1,1-Trichloroethane	µg/L	200	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	µg/L	5	<5	<5	<5	<5	3.4 J	<5	<5	<5	<5	<5	3.4 J	4.2 J	2.5 J	4.8 J	6.0	4.7 J	3.6 J	2.5 J	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	10*	<10	<10	<10	<10	<10	<4	<4	<4	<4	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
cis-1,2-Dichloroethene	µg/L	70	<5	<5	<5	<5	2.6 J	<5	<5	<5	<5	<5	13	13	6.5	13	12	11	8.8	6.5	5.9
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Aromatic Hydrocarbons																					
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	µg/L	5*	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	µg/L	10,000	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes, total	µg/L	10,000	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs																					
2-Butanone	µg/L	2,000	NA	NA	NA	NA	NA	<50	<50	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	µg/L	4,000	NA	NA	NA	NA	NA	<50	<50	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	µg/L	5*	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	µg/L	4,000	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																					
Arsenic	mg/L	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.010	<0.010	<0.010	<0.010	NA	NA	NA	<0.010	NA
Barium	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.713	0.862	0.738	0.710	NA	NA	NA	0.649	NA
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.010	<0.010	<0.010	<0.010	NA	<0.010	<0.010	<0.010	NA
Iron	mg/L	NR	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.160	0.400	0.278	0.146	NA	<0.100	<0.100	0.127	NA
Lead	mg/L	15	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01	<0.010	<0.010	<0.010	NA	<0.010	<0.010	<0.010	NA
Manganese	mg/L	NR	0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.105	0.110	0.087	0.097	NA	0.093	0.093	0.091	NA
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	8.54	NA	NA	NA	NA	NA	NA	NA	NA	NA	16.2	14.2	9.79	17.2	NA	20.5	21.1	17.1	NA
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-8. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-207P									MW-208									
			05/30/07	09/19/07	03/06/08	6/5/08	9/10/08	12/3/09	06/02/11	07/18/13	01/16/14	09/02/05	04/13/06	08/16/06	11/09/06	02/09/07	04/23/07	05/31/07	5/31/07 Dup	9/19/07	12/5/07
Other																					
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.36	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	NA	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.89	NA	0.89	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

Table D-8. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-208				MW-208P														
			3/7/08	6/5/08	9/12/08	12/04/09	04/20/06	05/15/06	08/15/06	11/08/06	02/08/07	05/30/07	09/18/07	12/5/07	3/6/08	6/6/08	9/9/08	12/3/09	06/01/11	07/18/13	01/09/14
Type 1 RRS																					
Chlorinated VOCs																					
Tetrachloroethene	µg/L	5	127	155	248	330	<5	<5	<5	2.2 J	<5	<5	3.0 J	<5	5.2	8.8	5.3	8.8	<5	6.8	9.3
1,1,1-Trichloroethane	µg/L	200	NA	NA	NA	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5
Trichloroethene	µg/L	5	4.8 J	4.4 J	3.4 J	9.1	<5	<5	<5	2.5 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	10*	<10	<10	<10	<4	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<4	<4	<4	<4
cis-1,2-Dichloroethene	µg/L	70	9.2	6.6	6.7	17	<5	<5	<5	6.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Aromatic Hydrocarbons																					
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	NA	NA	NA	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5
Cyclohexane	µg/L	5*	NA	NA	NA	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	NA	NA	NA	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	NA	NA	NA	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5
Xylenes, total	µg/L	10,000	<5	<5	<5	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs																					
2-Butanone	µg/L	2,000	NA	NA	NA	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<50	<50	<50
Acetone	µg/L	4,000	NA	NA	NA	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<50	<50	<50
Bromomethane	µg/L	5*	NA	NA	NA	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5
Carbon Disulfide	µg/L	4,000	NA	NA	NA	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5
Metals																					
Arsenic	mg/L	10	NA	NA	NA	NA	NA	NA	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	2,000	0.727	0.692	0.716	0.653	NA	NA	0.053	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	<0.010	<0.010	<0.010	<0.050	NA	NA	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NR	<0.100	<0.100	0.061 J	<0.100	NA	NA	0.157	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	15	<0.010	<0.010	<0.010	<0.010	NA	NA	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NR	0.105	0.087	0.087	0.094	NA	NA	0.209	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	20.7	18.7	18.3	14.9	NA	NA	7.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-8. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-208				MW-208P														
			3/7/08	6/5/08	9/12/08	12/04/09	04/20/06	05/15/06	08/15/06	11/08/06	02/08/07	05/30/07	09/18/07	12/5/07	3/6/08	6/6/08	9/9/08	12/3/09	06/01/11	07/18/13	01/09/14
Other																					
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	0.89	0.89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

Table D-8. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-209/209P (PZ-2)				MW-209/209P (PZ-2)						
			09/02/05	05/16/06	08/17/06	11/08/06	02/08/07	06/01/07	09/19/07	3/7/08	6/9/08	9/10/08	12/01/09
Chlorinated VOCs													
Tetrachloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	µg/L	200	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	10*	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<4
cis-1,2-Dichloroethene	µg/L	70	<5	<5	<5	2.4 J	<5	<5	3.4 J	<5	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Aromatic Hydrocarbons													
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	µg/L	5*	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Xylenes, total	µg/L	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs													
2-Butanone	µg/L	2,000	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50
Acetone	µg/L	4,000	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50
Bromomethane	µg/L	5*	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
Carbon Disulfide	µg/L	4,000	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
Metals													
Arsenic	mg/L	10	NA	NA	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	2,000	NA	NA	<0.020	0.023	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	NA	NA	0.021	0.009 J	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NR	NA	NA	<0.100	0.945	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	15	NA	NA	<0.010	0.008 J	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NR	NA	NA	8.03	14.5	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	NA	NA	299	231	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-8. Summary of Groundwater Analyses for MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-207, MW-207P, MW-208, MW-208P and MW-209/209P.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-209/209P (PZ-2)				MW-209/209P (PZ-2)						
			09/02/05	05/16/06	08/17/06	11/08/06	02/08/07	06/01/07	09/19/07	3/7/08	6/9/08	9/10/08	12/01/09
Other													
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	NA	NA	NA	NA	12	NA	NA	NA	NA	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

Table D-9. Summary of Groundwater Analyses for MW-210 through MW-214  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-210			MW-211			MW-212			MW-213		
			06/03/13	07/18/13	01/09/14	6/4/2013	07/18/13	01/09/14	06/03/13	07/19/13	01/13/14	06/03/13	07/19/13	01/13/14
Chlorinated VOCs			Type 1 RRS											
Tetrachloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	160	150	110	720	130	100
1,1,1-Trichloroethane	µg/L	200	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	21	24	17	140	54	49
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	4*	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
cis-1,2-Dichloroethene	µg/L	70	<5	<5	<5	<5	<5	<5	77	58	61	330	160	1,000
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7.0
Vinyl Chloride	µg/L	2	<2	<2	<2	<2	<2	<2	5.7	<2	4.8	<2	3.5	6.4
Aromatic Hydrocarbons														
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cyclohexane	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Xylenes, total	µg/L	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs														
2-Butanone (MEK)	µg/L	2,000	<50	<50	<50	<50	<50	<50	270	160	71	<50	<50	<50
Acetone	µg/L	4,000	<50	<50	<50	<50	<50	<50	620	620	280	<50	<50	<50
Bromomethane	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbon Disulfide	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methyl-tert-butyl Ether	µg/L	NR	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
NA-not analyzed  
Exceeds Type 1 RRS  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated



Table D-9. Summary of Groundwater Analyses for MW-210 through MW-214  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-214		
			06/04/13	07/18/13	01/10/14
Chlorinated VOCs					
Type 1 RRS					
Tetrachloroethene	µg/L	5	<5	<5	<5
1,1,1-Trichloroethane	µg/L	200	<5	<5	<5
Trichloroethene	µg/L	5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5
Chloroethane	µg/L	4*	<4	<4	<4
cis-1,2-Dichloroethene	µg/L	70	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	<2	<2
Aromatic Hydrocarbons					
Benzene	µg/L	5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5
Chlorobenzene	µg/L	100	<5	<5	<5
Cyclohexane	µg/L	5*	<5	<5	<5
Naphthalene	µg/L	20	<5	<5	<5
o-xylene	µg/L	10,000	<5	<5	<5
m,p-Xylene	µg/L	10,000	<5	<5	<5
Xylenes, total	µg/L	10,000	NA	NA	NA
Isopropylbenzene	µg/L	5*	<5	<5	<5
Non-Chlorinated VOCs					
2-Butanone (MEK)	µg/L	2,000	<50	<50	<50
Acetone	µg/L	4,000	<50	<50	<50
Bromomethane	µg/L	5*	<5	<5	<5
Carbon Disulfide	µg/L	4,000	<5	<5	<5
Methyl-tert-butyl Ether	µg/L	NR	<5	<5	<5

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
NA-not analyzed  
Exceeds Type 1 RRS  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated

Table D-10. Summary of Groundwater Analyses for MW-301, MW-302, MW-303, and MW-306.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-301							
			04/14/06	08/17/06	09/21/06	11/08/06	12/15/06	02/07/07	04/24/07	06/01/07
Type 1 RRS										
Chlorinated VOCs										
Tetrachloroethene	µg/L	5	<5	31 E	<5	229	4,570	3,580	<5	<5
1,1,1-Trichloroethane	µg/L	200	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	10*	<10	<10	<10	<10	<10	<10	<10	<10
cis-1,2-Dichloroethene	µg/L	70	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2
Aromatic Hydrocarbons										
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	µg/L	5*	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	<5
Xylenes, total	µg/L	10,000	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs										
2-Butanone	µg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	µg/L	4,000	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	µg/L	5*	NA	NA	<1	NA	NA	NA	NA	NA
Carbon Disulfide	µg/L	4,000	NA	NA	NA	NA	NA	NA	NA	NA
Metals										
Arsenic	mg/L	10	<0.10	0.01	NA	0.009 J	NA	<0.010	NA	<0.100
Barium	mg/L	2,000	<0.20	0.053	0.052	0.048	NA	0.037	NA	NA
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	<0.10	0.009 J	0.008 J	<0.010	NA	<0.010	NA	0.126
Iron	mg/L	NR	<1	<0.100	NA	0.134	NA	0.096 J	NA	<1
Lead	mg/L	15	<0.10	<0.010	NA	<0.010	NA	<0.010	NA	0.19
Manganese	mg/L	NR	273	44.7	64.3	24.3	NA	32.1	NA	2,710
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	204	105	87.8	81.5	NA	81.3	NA	1,460
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA

Table D-10. Summary of Groundwater Analyses for MW-301, MW-302, MW-303, and MW-306.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-301							
			04/14/06	08/17/06	09/21/06	11/08/06	12/15/06	02/07/07	04/24/07	06/01/07
Other										
Chlorides	mg/L	NR	<100	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	27.9	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	0.93	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	137	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	NA	NA	NA	NA	110	NA	6,600

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

E-Concentration exceeded the established method calibration range but is within the working range of the instrument

Table D-10. Summary of Groundwater Analyses for MW-301, MW-302, MW-303, and MW-306.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-301						MW-302							
			09/20/07	12/06/07	03/10/08	06/09/08	9/11/08	12/01/09	04/13/06	08/16/06	11/09/06	12/15/06	02/07/07	04/23/07	06/01/07	09/20/07
Type 1 RRS																
Chlorinated VOCs																
Tetrachloroethene	µg/L	5	<5	<50	<5	<5	<5	120	78	<5	<5	<5	<5	<5	9.3	16
1,1,1-Trichloroethane	µg/L	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	µg/L	5	<5	<50	<5	<5	<5	<5	3.5 J	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	10*	<10	<50	<10	<10	<10	<4	<10	<10	<10	<10	<10	<10	<10	<10
cis-1,2-Dichloroethene	µg/L	70	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Aromatic Hydrocarbons																
Benzene	µg/L	5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	µg/L	5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	µg/L	20	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	<5	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	<5	NA	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA
Xylenes, total	µg/L	10,000	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5
Isopropylbenzene	µg/L	5*	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs																
2-Butanone	µg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	µg/L	4,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	µg/L	5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	µg/L	4,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																
Arsenic	mg/L	10	<0.010	0.0152	<0.010	<0.010	<0.010	NA	<0.010	<0.010	<0.010	NA	<0.050	NA	NA	<0.010
Barium	mg/L	2,000	0.058	NA	<0.020	0.085	0.030	NA	0.122	0.041	0.042	NA	0.076 J	NA	NA	0.058
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	0.084	0.0643	0.009 J	0.087	0.042	NA	<0.010	0.137	0.053	NA	0.037 J	NA	0.034	0.036
Iron	mg/L	NR	0.176	2.73	<0.100	5.32	<0.100	NA	<0.100	<0.100	<0.100	NA	0.757	NA	<0.100	<0.100
Lead	mg/L	15	0.129	0.0589	<0.010	<0.010	<0.010	NA	<0.010	0.104	0.026	NA	<0.050	NA	<0.010	<0.010
Manganese	mg/L	NR	1,470	908	131	605	194	NA	0.777	836	280	NA	178	NA	14.9	6.14
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	1,950	655	71.5	19.4	196	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-10. Summary of Groundwater Analyses for MW-301, MW-302, MW-303, and MW-306.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-301						MW-302							
			09/20/07	12/06/07	03/10/08	06/09/08	9/11/08	12/01/09	04/13/06	08/16/06	11/09/06	12/15/06	02/07/07	04/23/07	06/01/07	09/20/07
Other																
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	NA	33.1	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	4.85	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	<0.10	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	NA	120	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	1,100	NA	4,100	2,800	700	NA	NA	NA	NA	NA	6,000	NA	38	18

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

E-Concentration exceeded the established method calibration range but is within the working range of the instrument

Table D-10. Summary of Groundwater Analyses for MW-301, MW-302, MW-303, and MW-306.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-302		MW-302			MW-303								
			12/06/07	03/11/08	06/06/08	09/12/08	12/01/09	04/14/06	08/17/06	11/10/06	12/17/06	02/07/07	04/23/07	06/01/07	09/20/07	12/06/07
Type 1 RRS																
Chlorinated VOCs																
Tetrachloroethene	µg/L	5	8.75	27	<5	9.3	26	4,530	<5	<5	<5	<5	<5	<5	<5	<50
1,1,1-Trichloroethane	µg/L	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	µg/L	5	<5	<5	<5	<5	<5	104	<5	<5	<5	<5	<5	<5	<5	<50
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50
Chloroethane	µg/L	10*	<5	<10	<10	<10	<4	<10	<10	<10	<10	<10	<5	<10	<10	<50
cis-1,2-Dichloroethene	µg/L	70	<5	<5	<5	<5	<5	659	<5	<5	<5	<5	<5	<5	<5	<50
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50
Vinyl Chloride	µg/L	2	<2	<2	<2	<2	<2	24	<2	<2	<2	<2	<2	<2	<2	<20
Aromatic Hydrocarbons																
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	2.7 J	<5	<5	<5	<5	<5	<50
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	4.4 J	<5	<5	<5	<5	<5	<5	<5	<50
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50
Chlorobenzene	µg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	µg/L	5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	5.5	<5	<5	<5	<5	<5	<5	<5	<50
o-xylene	µg/L	10,000	<5	<5	<5	<5	<5	76	<5	<5	<5	<5	<5	<5	<5	<50
m,p-Xylene	µg/L	10,000	NA	NA	<5	<5	<5	14	<5	<5	<5	<5	<5	<5	<5	<50
Xylenes, total	µg/L	10,000	<15	<5	NA	NA	NA	90	<15	<5	<5	<5	<5	<5	<5	<50
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	14	<5	<5	<5	<5	<5	<5	<5	<50
Non-Chlorinated VOCs																
2-Butanone	µg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	µg/L	4,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	µg/L	5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	µg/L	4,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																
Arsenic	mg/L	10	<0.010	NA	<0.010	NA	NA	<0.010	NA	<0.050	NA	<0.010	NA	NA	<0.010	<0.010
Barium	mg/L	2,000	NA	0.048	0.047	0.044	<0.05	0.407	NA	<0.100	NA	<0.020	NA	NA	<0.020	NA
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	<0.05	0.05	0.034	0.023	<0.05	<0.010	NA	0.071	NA	0.05	NA	0.034	0.028	<0.05
Iron	mg/L	NR	0.224	<0.100	<0.100	<0.100	<0.100	<0.100	NA	<0.500	NA	<0.100	NA	<0.100	<0.100	0.204
Lead	mg/L	15	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	<0.050	NA	0.017	NA	0.023	0.012	<0.010
Manganese	mg/L	NR	4.01	3.9	12.9	10.9	6.67	0.302	NA	317	NA	221	NA	234	154	66.9
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	NA	NA	NA	NA	NA	41.1	NA	189	NA	160	NA	188	150	163
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-10. Summary of Groundwater Analyses for MW-301, MW-302, MW-303, and MW-306.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-302		MW-302			MW-303								
			12/06/07	03/11/08	06/06/08	09/12/08	12/01/09	04/14/06	08/17/06	11/10/06	12/17/06	02/07/07	04/23/07	06/01/07	09/20/07	12/06/07
Other																
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	51	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	5.58	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	<0.10	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	23	NA	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	9.5	51	31	NA	NA	NA	NA	NA	860	NA	690	480	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

E-Concentration exceeded the established method calibration range but is within the working range of the instrument

Table D-10. Summary of Groundwater Analyses for MW-301, MW-302, MW-303, and MW-306.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-303				MW-306									
			03/11/08	06/05/08	09/11/08	12/03/09	04/13/06	08/16/06	11/08/06	02/09/07	05/31/07	09/19/07	12/05/07	3/7/08	6/5/08	9/12/08
Type 1 RRS																
Chlorinated VOCs																
Tetrachloroethene	µg/L	5	257	37	650	7,330	<5	2.9 J	2.7 J	<5	4.0 J	2.7 J	<5	<5	<5	4.8 J
1,1,1-Trichloroethane	µg/L	200	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	µg/L	5	<5	<5	<5	310	<5	<5	<5	<5	<5	<5	1.4	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	3.0 J	2.2 J	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	10*	<10	<10	<10	<4	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10
cis-1,2-Dichloroethene	µg/L	70	<5	<5	<5	1,700	<5	2.6 J	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	<2	<2	20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Aromatic Hydrocarbons																
Benzene	µg/L	5	2.6 J	<5	2.2 J	<5	15	43	34	6.8	26	17	33	7.1	4.1 J	9.3
Ethylbenzene	µg/L	700	3.9 J	<5	4.9 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	µg/L	5*	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	µg/L	20	<5	<5	<5	<5	11	35	22	6.1	23	13	28	6.5	<5	6.2
o-xylene	µg/L	10,000	56	25	63	<5	<5	7.5	4.8 J	<5	3.9 J	<5	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	14	6.6	20	<5	<5	2.1	<5	<5	<5	<5	<5	<5	<5	<5
Xylenes, total	µg/L	10,000	70	31.6	83	NA	<5	9.6	4.8	<5	3.9 J	<5	<5	<5	<5	<5
Isopropylbenzene	µg/L	5*	19	5.4	19	<5	<5	4.2 J	2.8 J	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs																
2-Butanone	µg/L	2,000	NA	NA	NA	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	µg/L	4,000	NA	NA	NA	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	µg/L	5*	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	µg/L	4,000	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																
Arsenic	mg/L	10	<0.010	<0.010	NA	NA	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	NA	NA
Barium	mg/L	2,000	0.020	0.022	NA	NA	0.210	0.152	0.128	0.138	<0.020	0.153	<0.020	0.109	0.097	0.116
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	0.014	0.019	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.05	<0.010	0.013	<0.010
Iron	mg/L	NR	0.131	<0.100	<0.100	NA	0.111	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.198	<0.100
Lead	mg/L	15	<0.010	<0.010	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Manganese	mg/L	NR	23.4	25.3	0.844	NA	0.286	0.394	0.308	0.308	0.363	0.319	0.329	0.337	0.337	0.340
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	88.2	98.2	3.28	NA	19	18.8	17.7	14.3	20.3	18.2	20.7	17.5	16.5	16.9
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



Table D-10. Summary of Groundwater Analyses for MW-301, MW-302, MW-303, and MW-306.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-303				MW-306									
			03/11/08	06/05/08	09/11/08	12/03/09	04/13/06	08/16/06	11/08/06	02/09/07	05/31/07	09/19/07	12/05/07	3/7/08	6/5/08	9/12/08
Other																
Chlorides	mg/L	NR	NA	NA	NA	NA	25.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	101	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	74	0.89	NA	NA	NA	NA	NA	0.89	0.89	NA	0.89	0.89	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

E-Concentration exceeded the established method calibration range but is within the working range of the instrument

Table D-10. Summary of Groundwater Analyses for MW-301, MW-302, MW-303, and MW-306.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-306			
			12/3/09	06/02/11	07/18/13	01/27/14
Type 1 Chlorinated VOCs RRS						
Tetrachloroethene	µg/L	5	14	13	23	32
1,1,1-Trichloroethane	µg/L	200	<5	<5	<5	<5
Trichloroethene	µg/L	5	<5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5
Chloroethane	µg/L	10*	<4	<4	<4	<4
cis-1,2-Dichloroethene	µg/L	70	<5	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	<2	<2	<2
Aromatic Hydrocarbons						
Benzene	µg/L	5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5
Chlorobenzene	µg/L	100	<5	<5	<5	<5
Cyclohexane	µg/L	5*	<5	<5	<5	<5
Naphthalene	µg/L	20	<5	<5	<5	<5
o-xylene	µg/L	10,000	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	<5	<5	<5	<5
Xylenes, total	µg/L	10,000	<5	<5	<5	<5
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5
Non-Chlorinated VOCs						
2-Butanone	µg/L	2,000	<50	<50	<50	<50
Acetone	µg/L	4,000	<50	<50	<50	<50
Bromomethane	µg/L	5*	<5	<5	<5	<5
Carbon Disulfide	µg/L	4,000	<5	<5	<5	<5
Metals						
Arsenic	mg/L	10	NA	NA	NA	NA
Barium	mg/L	2,000	0.097	NA	NA	NA
Beryllium	mg/L	4	NA	NA	NA	NA
Chromium	mg/L	100	<0.05	NA	NA	NA
Iron	mg/L	NR	<0.100	NA	NA	NA
Lead	mg/L	15	<0.010	NA	NA	NA
Manganese	mg/L	NR	0.316	NA	NA	NA
Nickel	mg/L	100	NA	NA	NA	NA
Sodium	mg/L	NR	11	NA	NA	NA
Thallium	mg/L	2	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA

Table D-10. Summary of Groundwater Analyses for MW-301, MW-302, MW-303, and MW-306.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-306			
			12/3/09	06/02/11	07/18/13	01/27/14
Other						
Chlorides	mg/L	NR	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	NA	NA	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

E-Concentration exceeded the established method calibration range but is within the working range of the instrument

Table D-11. Summary of Groundwater Analyses for MW-401, MW-402, MW-403, MW-404, MW-405, MW-406, MW-407, MW-408, MW-409, and MW-409D.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-401						MW-402								
			04/19/06	05/15/06	08/15/06	11/09/06	07/17/13	01/09/14	04/20/06	05/16/06	08/15/06	11/09/06	5/31/07	12/01/09	06/01/11	07/18/13	01/13/14
Type 1 RRS																	
Chlorinated VOCs																	
Tetrachloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	µg/L	200	<5	NA	NA	NA	<5	<5	<5	NA	NA	NA	NA	NA	<5	<5	<5
Trichloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	10*	<10	<10	<10	<10	<4	<4	<10	<10	<10	<10	<10	<10	<10	<4	<4
cis-1,2-Dichloroethene	µg/L	70	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Aromatic Hydrocarbons																	
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	<5	NA	NA	NA	<5	<5	<5	NA	NA	NA	NA	NA	<5	<5	<5
Cyclohexane	µg/L	5*	<5	NA	NA	NA	<5	<5	<5	NA	NA	NA	NA	NA	<5	<5	<5
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5
Xylenes, total	µg/L	10,000	NA	<5	<5	<5	NA	NA	NA	<5	<5	<5	<5	NA	NA	NA	NA
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs																	
2-Butanone	µg/L	2,000	<50	NA	NA	NA	<50	<50	<50	NA	NA	NA	NA	NA	<50	<50	<50
Acetone	µg/L	4,000	<50	NA	NA	NA	<50	<50	<50	NA	NA	NA	NA	NA	<50	<50	<50
Bromomethane	µg/L	5*	<5	NA	NA	NA	<5	<5	<5	NA	NA	NA	NA	NA	<5	<5	<5
Carbon Disulfide	µg/L	4,000	<5	NA	NA	NA	<5	<5	<5	NA	NA	NA	NA	NA	<5	<5	<5
Metals																	
Arsenic	mg/L	10	NA	NA	<0.010	<0.010	NA	NA	NA	NA	<0.010	NA	NA	NA	NA	NA	NA
Barium	mg/L	2,000	NA	NA	0.07	0.071	NA	NA	NA	NA	0.037	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	NA	NA	<0.010	<0.010	NA	NA	NA	NA	<0.010	NA	NA	NA	NA	NA	NA
Iron	mg/L	NR	NA	NA	11.3	12	NA	NA	NA	NA	<0.100	NA	NA	NA	NA	NA	NA
Lead	mg/L	15	NA	NA	<0.010	<0.010	NA	NA	NA	NA	<0.010	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NR	NA	NA	6.26	6.42	NA	NA	NA	NA	0.603	NA	NA	NA	NA	NA	NA
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	NA	NA	4.99	5.97	NA	NA	NA	NA	6.52	NA	NA	NA	NA	NA	NA
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-11. Summary of Groundwater Analyses for MW-401, MW-402, MW-403, MW-404, MW-405, MW-406, MW-407, MW-408, MW-409, and MW-409D.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-401						MW-402								
			04/19/06	05/15/06	08/15/06	11/09/06	07/17/13	01/09/14	04/20/06	05/16/06	08/15/06	11/09/06	5/31/07	12/01/09	06/01/11	07/18/13	01/13/14
Other																	
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

Table D-11. Summary of Groundwater Analyses for MW-401, MW-402, MW-403, MW-404, MW-405, MW-406, MW-407, MW-408, MW-409, and MW-409D.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-403						
			04/20/06	05/16/06	08/18/06	11/10/06	12/17/06	02/09/07	06/01/07
Chlorinated VOCs									
Tetrachloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	µg/L	200	<5	NA	NA	NA	NA	NA	NA
Trichloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	10*	67	14	11	35	29	<10	26
cis-1,2-Dichloroethene	µg/L	70	2,600	1,620	<5	<5	<5	304	<5
trans-1,2-Dichloroethene	µg/L	100	14	9.6	<5	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	1,500	1,660	<2	<2	<2	<2	<2
Aromatic Hydrocarbons									
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	<5	NA	NA	NA	NA	NA	NA
Cyclohexane	µg/L	5*	<5	NA	NA	NA	NA	NA	NA
Naphthalene	µg/L	20	<5	16	3.9 J	<5	<5	<5	<5
o-xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	<10	<5	4.8 J	<5	<5	<5	<5
Xylenes, total	µg/L	10,000	NA	<5	<5	<5	<5	<5	<5
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs									
2-Butanone	µg/L	2,000	NA	NA	NA	NA	NA	NA	NA
Acetone	µg/L	4,000	NA	NA	NA	NA	NA	NA	NA
Bromomethane	µg/L	5*	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	µg/L	4,000	NA	NA	NA	NA	NA	NA	NA
Metals									
Arsenic	mg/L	10	NA	NA	<0.010	<0.050	NA	<0.010	NA
Barium	mg/L	2,000	NA	NA	<0.020	<0.100	NA	<0.020	NA
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	NA	NA	0.288	0.211	NA	0.011	0.021
Iron	mg/L	NR	NA	NA	0.134	<0.500	NA	<0.100	<0.100
Lead	mg/L	15	NA	NA	0.083	<0.050	NA	<0.010	0.012
Manganese	mg/L	NR	NA	NA	693	295	NA	2.44	132
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	NA	NA	1,090	417	NA	156	214
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA

Table D-11. Summary of Groundwater Analyses for MW-401, MW-402, MW-403, MW-404, MW-405, MW-406, MW-407, MW-408, MW-409, and MW-409D.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-403						
			04/20/06	05/16/06	08/18/06	11/10/06	12/17/06	02/09/07	06/01/07
Other									
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	NA	NA	NA	NA	NA	250

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

Table D-11. Summary of Groundwater Analyses for MW-401, MW-402, MW-403, MW-404, MW-405, MW-406, MW-407, MW-408, MW-409, and MW-409D.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			09/19/07	12/06/07	03/11/08	06/09/08	09/11/08	MW-403 08/07/09	12/01/09	06/02/11	10/08/12	07/19/13	01/13/14	04/20/06	05/16/06	MW-404 08/17/06	11/08/06	02/08/07
Chlorinated VOCs																		
Tetrachloroethene	µg/L	5	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	µg/L	200	NA	NA	NA	NA	NA	<5	NA	<5	<5	<5	<5	<5	NA	NA	NA	NA
Trichloroethene	µg/L	5	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	10*	23	42	15	17	40	23	19	<4	<10	<4	<4	<10	<10	<10	<10	<10
cis-1,2-Dichloroethene	µg/L	70	<5	<25	<5	<5	165	700	170	340	55	27	24	7.8	<5	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	<10	<2	<2	108	750	350	1,600	400	190	80	<2	<2	<2	<2	<2
Aromatic Hydrocarbons																		
Benzene	µg/L	5	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	NA	NA	NA	NA	NA	<5	NA	<5	<5	<5	<5	NA	NA	NA	NA	NA
Cyclohexane	µg/L	5*	NA	NA	NA	NA	NA	<5	NA	<5	<5	<5	<5	NA	NA	NA	NA	NA
Naphthalene	µg/L	20	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	<5	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	<5	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5
Xylenes, total	µg/L	10,000	<5	<25	<5	<5	<5	<5	<15	<5	<5	NA	NA	<5	<5	<5	<5	<5
Isopropylbenzene	µg/L	5*	<10	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs																		
2-Butanone	µg/L	2,000	NA	NA	NA	NA	NA	<50	NA	<50	<50	<50	<50	NA	NA	NA	NA	NA
Acetone	µg/L	4,000	NA	NA	NA	NA	NA	<50	NA	<50	<50	<50	<50	NA	NA	NA	NA	NA
Bromomethane	µg/L	5*	NA	NA	NA	NA	NA	<5	NA	<5	<5	<5	<5	NA	NA	NA	NA	NA
Carbon Disulfide	µg/L	4,000	NA	NA	NA	NA	NA	<5	NA	<5	<5	<5	<5	NA	NA	NA	NA	NA
Metals																		
Arsenic	mg/L	10	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.010	NA	NA
Barium	mg/L	2,000	<0.020	NA	<0.020	0.219	<0.020	NA	<0.050	NA	NA	NA	NA	NA	NA	0.055	NA	NA
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	0.043	<0.05	0.022	0.044	0.024	NA	<0.050	NA	NA	NA	NA	NA	NA	<0.010	NA	NA
Iron	mg/L	NR	<0.100	<0.100	<0.100	22.5	0.255	NA	<0.100	NA	NA	NA	NA	NA	NA	4	NA	NA
Lead	mg/L	15	<0.010	<0.010	<0.010	0.063	<0.010	NA	<0.01	NA	NA	NA	NA	NA	NA	<0.010	NA	NA
Manganese	mg/L	NR	67.9	29.2	5.24	50.6	1.18	NA	0.455	NA	NA	NA	NA	NA	NA	0.162	NA	NA
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	205	260	163	165	134	NA	151	NA	NA	NA	NA	NA	NA	11	NA	NA
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



Table D-11. Summary of Groundwater Analyses for MW-401, MW-402, MW-403, MW-404, MW-405, MW-406, MW-407, MW-408, MW-409, and MW-409D.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			09/19/07	12/06/07	03/11/08	06/09/08	09/11/08	MW-403 08/07/09	12/01/09	06/02/11	10/08/12	07/19/13	01/13/14	MW-404				
Other														04/20/06	05/16/06	08/17/06	11/08/06	02/08/07
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	200	NA	15	13	0.89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

Table D-11. Summary of Groundwater Analyses for MW-401, MW-402, MW-403, MW-404, MW-405, MW-406, MW-407, MW-408, MW-409, and MW-409D.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-404						MW-405							
			06/01/07	09/18/07	12/05/07	03/06/08	06/05/08	09/12/08	12/01/09	04/20/06	05/16/06	09/21/06	11/08/06	2/9/07	5/30/07	9/18/07
Chlorinated VOCs																
	Type 1															
	RRS															
Tetrachloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	µg/L	200	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA
Trichloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	10*	<10	<10	<10	<10	<10	<10	<4	<10	<10	<10	<10	<10	<10	<10
cis-1,2-Dichloroethene	µg/L	70	<5	<5	4.0 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Aromatic Hydrocarbons																
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA
Cyclohexane	µg/L	5*	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Xylenes, total	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs																
2-Butanone	µg/L	2,000	NA	NA	NA	<50	NA	NA	NA	<50	NA	NA	NA	NA	NA	NA
Acetone	µg/L	4,000	NA	NA	NA	<50	NA	NA	NA	<50	NA	NA	NA	NA	NA	NA
Bromomethane	µg/L	5*	NA	NA	NA	<5	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA
Carbon Disulfide	µg/L	4,000	NA	NA	NA	<5	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA
Metals																
Arsenic	mg/L	10	NA	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.008 J	NA	<0.010
Barium	mg/L	2,000	NA	0.022	NA	NA	NA	NA	NA	NA	NA	0.020	NA	0.022	NA	0.023
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	<0.010	0.019	NA	NA	NA	NA	NA	NA	NA	<0.010	NA	<0.010	<0.010	<0.010
Iron	mg/L	NR	0.353	<0.100	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.446	0.220	0.545
Lead	mg/L	15	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.010	<0.010	<0.010
Manganese	mg/L	NR	0.08	25.3	NA	NA	NA	NA	NA	NA	NA	1.23	NA	1.88	2.17	1.98
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	13.3	98.2	NA	NA	NA	NA	NA	NA	NA	9.09	NA	7.75	10.4	8.08
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-11. Summary of Groundwater Analyses for MW-401, MW-402, MW-403, MW-404, MW-405, MW-406, MW-407, MW-408, MW-409, and MW-409D.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-404							MW-405						
			06/01/07	09/18/07	12/05/07	03/06/08	06/05/08	09/12/08	12/01/09	04/20/06	05/16/06	09/21/06	11/08/06	2/9/07	5/30/07	9/18/07
Other																
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	39	74	NA	NA	11	0.89	NA	NA	NA	NA	NA	NA	NA	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

Table D-11. Summary of Groundwater Analyses for MW-401, MW-402, MW-403, MW-404, MW-405, MW-406, MW-407, MW-408, MW-409, and MW-409D.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			3/7/08	06/05/08	9/10/08	MW-405 12/01/09	06/01/11	07/17/13	01/09/14	12/05/07	03/11/08	MW-406 06/09/08	09/11/08	12/3/09	12/06/07	03/10/08	MW-407 06/09/08	09/11/08	12/1/09
Chlorinated VOCs																			
Type 1 RRS																			
Tetrachloroethene	µg/L	5	<5	<5	4.9 J	<5	<5	<5	<5	72	88	73	80	37	<50	<5	<5	54	130
1,1,1-Trichloroethane	µg/L	200	NA	NA	<5	NA	<5	<5	<5	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA
Trichloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	3.3 J	<5	<5	<50	<5	<5	<5	6.3
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
Chloroethane	µg/L	10*	<10	<10	<4	<4	<4	<4	<4	<5	<10	<10	<10	<4	<50	<10	<10	<10	<4
cis-1,2-Dichloroethene	µg/L	70	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<2
Aromatic Hydrocarbons																			
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
Chlorobenzene	µg/L	100	NA	NA	NA	NA	<5	<5	<5	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA
Cyclohexane	µg/L	5*	NA	NA	NA	NA	<5	<5	<5	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
o-xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	NA	<5	<5	<5
m,p-Xylene	µg/L	10,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	NA	<5	<5	<5
Xylenes, total	µg/L	10,000	<5	<5	<5	<5	<5	NA	NA	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
Non-Chlorinated VOCs																			
2-Butanone	µg/L	2,000	NA	NA	NA	NA	<50	<50	<50	NA	NA	NA	NA	<50	NA	NA	NA	NA	NA
Acetone	µg/L	4,000	NA	NA	NA	NA	<50	<50	<50	NA	NA	NA	NA	<50	NA	NA	NA	NA	NA
Bromomethane	µg/L	5*	NA	NA	NA	NA	<5	<5	<5	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA
Carbon Disulfide	µg/L	4,000	NA	NA	NA	NA	<5	<5	<5	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA
Metals																			
Arsenic	mg/L	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	2,000	0.062	0.029	0.016 J	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	<0.010	<0.010	<0.010	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NR	3.93	0.863	<0.100	<0.100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	15	<0.010	<0.010	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NR	1.94	1.92	1.74	1.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	10.7	10.4	9.03	6.64	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-11. Summary of Groundwater Analyses for MW-401, MW-402, MW-403, MW-404, MW-405, MW-406, MW-407, MW-408, MW-409, and MW-409D.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			3/7/08	06/05/08	9/10/08	MW-405 12/01/09	06/01/11	07/17/13	01/09/14	12/05/07	03/11/08	MW-406 06/09/08	09/11/08	12/3/09	12/06/07	03/10/08	MW-407 06/09/08	09/11/08	12/1/09
Other																			
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	0.89	0.89	0.89	NA	NA	560	380	120	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

Table D-11. Summary of Groundwater Analyses for MW-401, MW-402, MW-403, MW-404, MW-405, MW-406, MW-407, MW-408, MW-409, and MW-409D.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-408					MW-409							
			12/06/07	03/11/08	06/05/08	09/11/08	12/4/09	12/05/07	03/10/08	06/06/08	09/09/08	12/3/09	6/1/11	7/18/13	1/10/14
Chlorinated VOCs															
	Type 1	RRS													
Tetrachloroethene	µg/L	5	660	7,240	9,360	7,760	1,200	<5	<5	<5	<5	5.8	5.2	9.7	5.1
1,1,1-Trichloroethane	µg/L	200	NA	NA	NA	NA	<5	NA	NA	NA	NA	<5	<5	<5	<5
Trichloroethene	µg/L	5	<50	102	285	340	120	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	10*	<50	<10	<10	<10	<4	<5	<10	<10	<10	<4	<4	<4	<4
cis-1,2-Dichloroethene	µg/L	70	<50	267	913	971	440	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<50	<5	3.2 J	3.0 J	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Aromatic Hydrocarbons															
Benzene	µg/L	5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	NA	NA	NA	NA	<5	NA	NA	NA	NA	<5	<5	<5	<5
Cyclohexane	µg/L	5*	NA	NA	NA	NA	<5	NA	NA	NA	NA	<5	<5	<5	<5
Naphthalene	µg/L	20	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	NA	NA	<5	<5	<5	NA	NA	<5	<5	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	NA	NA	<5	<5	<5	NA	NA	<5	<5	<5	<5	<5	<5
Xylenes, total	µg/L	10,000	<50	<5	<5	<5	<5	<5	NA	NA	NA	NA	<5	NA	NA
Isopropylbenzene	µg/L	5*	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs															
2-Butanone	µg/L	2,000	NA	NA	NA	NA	<50	NA	NA	NA	NA	<50	<50	<50	<50
Acetone	µg/L	4,000	NA	NA	NA	NA	<50	NA	NA	NA	NA	<50	<50	<50	<50
Bromomethane	µg/L	5*	NA	NA	NA	NA	<5	NA	NA	NA	NA	<5	<5	<5	<5
Carbon Disulfide	µg/L	4,000	NA	NA	NA	NA	<5	NA	NA	NA	NA	<5	<5	<5	<5
Metals															
Arsenic	mg/L	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-11. Summary of Groundwater Analyses for MW-401, MW-402, MW-403, MW-404, MW-405, MW-406, MW-407, MW-408, MW-409, and MW-409D.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-408					MW-409							
			12/06/07	03/11/08	06/05/08	09/11/08	12/4/09	12/05/07	03/10/08	06/06/08	09/09/08	12/3/09	6/1/11	7/18/13	1/10/14
Other															
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	2.2	1.2	0.89	NA	NA	0.89	NA	NA	NA	NA	NA	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

Table D-11. Summary of Groundwater Analyses for MW-401, MW-402, MW-403, MW-404, MW-405, MW-406, MW-407, MW-408, MW-409, and MW-409D.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-409D							
			12/05/07	03/10/08	06/06/08	09/09/08	12/3/09	6/1/11	7/18/13	1/10/14
Chlorinated VOCs										
	Type 1									
	RRS									
Tetrachloroethene	µg/L	5	<5	3.1 J	5.7	3.1 J	<5	<5	<5	<5
1,1,1-Trichloroethane	µg/L	200	NA	NA	NA	NA	<5	<5	<5	<5
Trichloroethene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	µg/L	7	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	µg/L	4,000	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	µg/L	10*	<5	<10	<10	<10	<4	<4	<4	<4
cis-1,2-Dichloroethene	µg/L	70	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	µg/L	100	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2
Aromatic Hydrocarbons										
Benzene	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	µg/L	700	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	µg/L	1,000	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	µg/L	100	NA	NA	NA	NA	<5	<5	<5	<5
Cyclohexane	µg/L	5*	NA	NA	NA	NA	<5	<5	<5	<5
Naphthalene	µg/L	20	<5	<5	<5	<5	<5	<5	<5	<5
o-xylene	µg/L	10,000	NA	<5	<5	<5	<5	<5	<5	<5
m,p-Xylene	µg/L	10,000	NA	<5	<5	<5	<5	<5	<5	<5
Xylenes, total	µg/L	10,000	<5	NA	NA	NA	NA	<5	NA	NA
Isopropylbenzene	µg/L	5*	<5	<5	<5	<5	<5	<5	<5	<5
Non-Chlorinated VOCs										
2-Butanone	µg/L	2,000	NA	NA	NA	NA	<50	<50	<50	<50
Acetone	µg/L	4,000	NA	NA	NA	NA	<50	<50	<50	<50
Bromomethane	µg/L	5*	NA	NA	NA	NA	<5	<5	<5	<5
Carbon Disulfide	µg/L	4,000	NA	NA	NA	NA	<5	<5	<5	<5
Metals										
Arsenic	mg/L	10	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	4	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	15	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	100	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	2	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	2,000	NA	NA	NA	NA	NA	NA	NA	NA



Table D-11. Summary of Groundwater Analyses for MW-401, MW-402, MW-403, MW-404, MW-405, MW-406, MW-407, MW-408, MW-409, and MW-409D.  
ARAMARK DeKalb Avenue VRP/HSI Site No. 10704  
Atlanta, Georgia

			MW-409D							
			12/05/07	03/10/08	06/06/08	09/09/08	12/3/09	6/1/11	7/18/13	1/10/14
Other										
Chlorides	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite (N)	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NR	NA	NA	NA	NA	NA	NA	NA	NA
Potassium Permanganate	mg/L	NR	NA	0.89	NA	NA	NA	NA	NA	NA

Notes:  
RRS-Risk Reduction Standard  
VOCs-volatile organic compounds  
µg/L- micrograms per liter  
mg/L-milligrams per liter  
NA-not analyzed  
\*-Risk Reduction Standard based on Detection limit  
NR-Not regulated  
Exceeds Type 1 RRS

J- Estimated value. Presence of the compound was confirmed but less than the reported detection limit

---

# **ATTACHMENT E**

## **January 2014 Laboratory Analytical Reports**

# **Analytical Report 477225**

**for**

## **Atlanta Environmental Management**

**Project Manager: Leona Miles**  
**Aramark - Dekalb (Dekalb Ave)**  
**1133-1401-3**  
**17-JAN-14**

Collected By: Client



**6017 Financial Dr., Norcross, GA 30071**  
**Ph:(770) 449-8800 Fax:(770) 449-5477**

Xenco-Houston (EPA Lab code: TX00122):  
Texas (T104704215-13-15-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)  
New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):  
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135)  
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)  
Xenco-Lakeland: Florida (E84098)  
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)  
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)  
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)  
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

17-JAN-14

Project Manager: **Leona Miles**  
**Atlanta Environmental Management**  
2580 Northeast Expressway  
Atlanta, GA 30345

Reference: XENCO Report No(s): **477225**  
**Aramark - Dekalb (DeKalb Ave)**  
Project Address: GA

**Leona Miles:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 477225. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 477225 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,



---

**Eben Buchanan**  
Project Manager

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***  
*Certified and approved by numerous States and Agencies.*  
*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (Dekalb Ave)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-401	W	01-09-14 14:01		477225-001
MW-405	W	01-09-14 15:20		477225-002
MW-210	W	01-09-14 15:30		477225-003
MW-211	W	01-09-14 17:00		477225-004
MW-208P	W	01-09-14 16:33		477225-005
MW-202	W	01-10-14 10:49		477225-006
MW-110	W	01-10-14 11:10		477225-007
MW-111	W	01-10-14 12:25		477225-008
MW-409	W	01-10-14 14:28		477225-009
MW-409D	W	01-10-14 13:09		477225-010
MW-214	W	01-10-14 15:25		477225-011
MW-204	W	01-10-14 16:08		477225-012
Trip Blank	W	01-09-14 00:00		477225-013

**Client Name:** Atlanta Environmental Management

**Project Name:** Aramark - Dekalb (Dekalb Ave)

Project ID: 1133-1401-3  
Work Order Number(s): 477225

Report Date: 17-JAN-14  
Date Received: 01/10/2014

---

**Sample receipt non conformances and comments:**

---

**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-931887 VOCs by SW-846 8260B

2-Hexanone, 4-Methyl-2-pentanone (MIBK) recovered above QC limits in the Matrix Spike Duplicate.

The Laboratory Control Sample for 4-Methyl-2-pentanone (MIBK) , 2-Hexanone is within laboratory Control Limits.

Acetone, Methyl acetate , Methyl tert-butyl ether MS/MSD RPD was outside QC limits.

Batch: LBA-932045 VOCs by SW-846 8260B

1,2,4-Trichlorobenzene, 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Benzene, Bromodichloromethane, Chlorobenzene, Cyclohexane, Ethylbenzene, Isopropylbenzene , Toluene, Trichloroethene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike Duplicate.

1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,2-Dichlorobenzene, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Benzene, Bromochloromethane, Bromodichloromethane, Bromomethane, Carbon disulfide , Carbon tetrachloride , Chlorobenzene, Chloroethane, Chloroform, Dibromochloromethane, Ethylbenzene, Methylene chloride , Styrene, Toluene, Trichloroethene, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, o-Xylene, trans-1,2-Dichloroethene MS/MSD RPD was outside QC limits.

The Laboratory Control Sample for 1,2-Dichloropropane, 1,3-Dichlorobenzene, Bromodichloromethane, Isopropylbenzene , Toluene, Trichloroethene, 1,4-Dichlorobenzene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene, 1,2,4-Trichlorobenzene, Chlorobenzene, Cyclohexane is within laboratory Control Limits

**Atlanta Environmental Management, Atlanta, GA**  
Aramark - Dekalb (Dekalb Ave)

Sample Id : **MW-208P**  
Lab Sample Id : 477225-005

Matrix : Ground Water  
Date Collected : 01.09.14 16.33  
Date Received : 01.10.14 17.20

% Moisture :

Analytical Method : VOCs by SW-846 8260B  
Seq Number 931887

Prep Method: SW5030B  
Date Prep: 01.13.14 09.12

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Tetrachloroethene	127-18-4	9.3	ug/L	01.13.14 13.45		1

**Atlanta Environmental Management, Atlanta, GA**  
Aramark - Dekalb (Dekalb Ave)

Sample Id : **MW-409**  
Lab Sample Id : 477225-009

Matrix : Ground Water  
Date Collected : 01.10.14 14.28  
Date Received : 01.10.14 17.20

% Moisture :

Analytical Method : VOCs by SW-846 8260B  
Seq Number 931893

Prep Method: SW5030B  
Date Prep: 01.13.14 07.01

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Tetrachloroethene	127-18-4	5.1	ug/L	01.13.14 16.04		1



**Atlanta Environmental Management, Atlanta, GA**  
Aramark - Dekalb (Dekalb Ave)

Sample Id : **MW-204**  
Lab Sample Id : 477225-012

Matrix : Ground Water  
Date Collected : 01.10.14 16.08  
Date Received : 01.10.14 17.20

% Moisture :

Analytical Method : VOCs by SW-846 8260B  
Seq Number 931893

Prep Method: SW5030B  
Date Prep: 01.13.14 07.01

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Tetrachloroethene	127-18-4	7.9	ug/L	01.13.14 17.53		1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (Dekalb Ave)

Sample Id: **MW-401**  
Lab Sample Id: 477225-001

Matrix: Ground Water  
Date Collected: 01.09.14 14.01

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 07.01

Seq Number: 931893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.13.14 14.16	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.13.14 14.16	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.13.14 14.16	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.13.14 14.16	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.13.14 14.16	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.13.14 14.16	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.13.14 14.16	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.13.14 14.16	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.13.14 14.16	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.13.14 14.16	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.13.14 14.16	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.13.14 14.16	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.13.14 14.16	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.13.14 14.16	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.13.14 14.16	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	01.13.14 14.16	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	01.13.14 14.16	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.13.14 14.16	U	1
Acetone	67-64-1	BRL	50	ug/L	01.13.14 14.16	U	1
Benzene	71-43-2	BRL	5.0	ug/L	01.13.14 14.16	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.13.14 14.16	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.13.14 14.16	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.13.14 14.16	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.13.14 14.16	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.13.14 14.16	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.13.14 14.16	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.13.14 14.16	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.13.14 14.16	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.13.14 14.16	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.13.14 14.16	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	5.0	ug/L	01.13.14 14.16	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.13.14 14.16	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.13.14 14.16	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.13.14 14.16	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.13.14 14.16	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.13.14 14.16	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.13.14 14.16	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.13.14 14.16	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.13.14 14.16	U	1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (Dekalb Ave)

Sample Id: **MW-401**  
Lab Sample Id: 477225-001

Matrix: Ground Water  
Date Collected: 01.09.14 14.01

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 07.01

Seq Number: 931893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.13.14 14.16	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.13.14 14.16	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.13.14 14.16	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.13.14 14.16	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.13.14 14.16	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.13.14 14.16	U	1
Tetrachloroethene	127-18-4	BRL	5.0	ug/L	01.13.14 14.16	U	1
Toluene	108-88-3	BRL	5.0	ug/L	01.13.14 14.16	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	01.13.14 14.16	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.13.14 14.16	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	01.13.14 14.16	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.13.14 14.16	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	01.13.14 14.16	U	1
<b>Surrogate</b>							
	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	100	%	53-159	01.13.14 14.16		
4-Bromofluorobenzene	460-00-4	100	%	30-186	01.13.14 14.16		
Toluene-D8	2037-26-5	100	%	70-130	01.13.14 14.16		

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (Dekalb Ave)

Sample Id: **MW-405**  
Lab Sample Id: 477225-002

Matrix: Ground Water  
Date Collected: 01.09.14 15.20

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 07.01

Seq Number: 931893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.13.14 14.43	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.13.14 14.43	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.13.14 14.43	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.13.14 14.43	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.13.14 14.43	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.13.14 14.43	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.13.14 14.43	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.13.14 14.43	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.13.14 14.43	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.13.14 14.43	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.13.14 14.43	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.13.14 14.43	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.13.14 14.43	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.13.14 14.43	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.13.14 14.43	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	01.13.14 14.43	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	01.13.14 14.43	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.13.14 14.43	U	1
Acetone	67-64-1	BRL	50	ug/L	01.13.14 14.43	U	1
Benzene	71-43-2	BRL	5.0	ug/L	01.13.14 14.43	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.13.14 14.43	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.13.14 14.43	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.13.14 14.43	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.13.14 14.43	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.13.14 14.43	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.13.14 14.43	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.13.14 14.43	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.13.14 14.43	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.13.14 14.43	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.13.14 14.43	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	5.0	ug/L	01.13.14 14.43	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.13.14 14.43	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.13.14 14.43	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.13.14 14.43	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.13.14 14.43	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.13.14 14.43	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.13.14 14.43	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.13.14 14.43	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.13.14 14.43	U	1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (DeKalb Ave)

Sample Id: **MW-405**  
Lab Sample Id: 477225-002

Matrix: Ground Water  
Date Collected: 01.09.14 15.20

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 07.01

Seq Number: 931893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.13.14 14.43	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.13.14 14.43	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.13.14 14.43	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.13.14 14.43	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.13.14 14.43	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.13.14 14.43	U	1
Tetrachloroethene	127-18-4	BRL	5.0	ug/L	01.13.14 14.43	U	1
Toluene	108-88-3	BRL	5.0	ug/L	01.13.14 14.43	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	01.13.14 14.43	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.13.14 14.43	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	01.13.14 14.43	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.13.14 14.43	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	01.13.14 14.43	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	100	%	53-159	01.13.14 14.43		
4-Bromofluorobenzene	460-00-4	102	%	30-186	01.13.14 14.43		
Toluene-D8	2037-26-5	100	%	70-130	01.13.14 14.43		

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (Dekalb Ave)

Sample Id: **MW-210**  
Lab Sample Id: 477225-003

Matrix: Ground Water  
Date Collected: 01.09.14 15.30

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 07.01

Seq Number: 931893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.13.14 15.10	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.13.14 15.10	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.13.14 15.10	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.13.14 15.10	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.13.14 15.10	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.13.14 15.10	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.13.14 15.10	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.13.14 15.10	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.13.14 15.10	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.13.14 15.10	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.13.14 15.10	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.13.14 15.10	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.13.14 15.10	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.13.14 15.10	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.13.14 15.10	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	01.13.14 15.10	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	01.13.14 15.10	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.13.14 15.10	U	1
Acetone	67-64-1	BRL	50	ug/L	01.13.14 15.10	U	1
Benzene	71-43-2	BRL	5.0	ug/L	01.13.14 15.10	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.13.14 15.10	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.13.14 15.10	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.13.14 15.10	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.13.14 15.10	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.13.14 15.10	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.13.14 15.10	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.13.14 15.10	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.13.14 15.10	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.13.14 15.10	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.13.14 15.10	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	5.0	ug/L	01.13.14 15.10	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.13.14 15.10	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.13.14 15.10	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.13.14 15.10	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.13.14 15.10	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.13.14 15.10	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.13.14 15.10	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.13.14 15.10	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.13.14 15.10	U	1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (DeKalb Ave)

Sample Id: **MW-210**  
Lab Sample Id: 477225-003

Matrix: Ground Water  
Date Collected: 01.09.14 15.30

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 07.01

Seq Number: 931893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.13.14 15.10	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.13.14 15.10	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.13.14 15.10	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.13.14 15.10	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.13.14 15.10	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.13.14 15.10	U	1
Tetrachloroethene	127-18-4	BRL	5.0	ug/L	01.13.14 15.10	U	1
Toluene	108-88-3	BRL	5.0	ug/L	01.13.14 15.10	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	01.13.14 15.10	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.13.14 15.10	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	01.13.14 15.10	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.13.14 15.10	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	01.13.14 15.10	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	102	%	53-159	01.13.14 15.10		
4-Bromofluorobenzene	460-00-4	102	%	30-186	01.13.14 15.10		
Toluene-D8	2037-26-5	100	%	70-130	01.13.14 15.10		

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (Dekalb Ave)

Sample Id: **MW-211**  
Lab Sample Id: 477225-004

Matrix: Ground Water  
Date Collected: 01.09.14 17.00

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 07.01

Seq Number: 931893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.13.14 15.37	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.13.14 15.37	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.13.14 15.37	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.13.14 15.37	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.13.14 15.37	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.13.14 15.37	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.13.14 15.37	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.13.14 15.37	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.13.14 15.37	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.13.14 15.37	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.13.14 15.37	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.13.14 15.37	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.13.14 15.37	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.13.14 15.37	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.13.14 15.37	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	01.13.14 15.37	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	01.13.14 15.37	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.13.14 15.37	U	1
Acetone	67-64-1	BRL	50	ug/L	01.13.14 15.37	U	1
Benzene	71-43-2	BRL	5.0	ug/L	01.13.14 15.37	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.13.14 15.37	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.13.14 15.37	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.13.14 15.37	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.13.14 15.37	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.13.14 15.37	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.13.14 15.37	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.13.14 15.37	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.13.14 15.37	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.13.14 15.37	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.13.14 15.37	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	5.0	ug/L	01.13.14 15.37	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.13.14 15.37	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.13.14 15.37	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.13.14 15.37	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.13.14 15.37	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.13.14 15.37	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.13.14 15.37	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.13.14 15.37	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.13.14 15.37	U	1



## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (DeKalb Ave)

Sample Id: **MW-211**  
Lab Sample Id: 477225-004

Matrix: Ground Water  
Date Collected: 01.09.14 17.00

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 07.01

Seq Number: 931893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.13.14 15.37	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.13.14 15.37	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.13.14 15.37	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.13.14 15.37	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.13.14 15.37	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.13.14 15.37	U	1
Tetrachloroethene	127-18-4	BRL	5.0	ug/L	01.13.14 15.37	U	1
Toluene	108-88-3	BRL	5.0	ug/L	01.13.14 15.37	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	01.13.14 15.37	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.13.14 15.37	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	01.13.14 15.37	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.13.14 15.37	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	01.13.14 15.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	102	%	53-159	01.13.14 15.37	
4-Bromofluorobenzene	460-00-4	102	%	30-186	01.13.14 15.37	
Toluene-D8	2037-26-5	98	%	70-130	01.13.14 15.37	

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (Dekalb Ave)

Sample Id: **MW-208P**  
Lab Sample Id: 477225-005

Matrix: Ground Water  
Date Collected: 01.09.14 16.33

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: LIH

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 09.12

Seq Number: 931887

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.13.14 13.45	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.13.14 13.45	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.13.14 13.45	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.13.14 13.45	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.13.14 13.45	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.13.14 13.45	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.13.14 13.45	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.13.14 13.45	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.13.14 13.45	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.13.14 13.45	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.13.14 13.45	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.13.14 13.45	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.13.14 13.45	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.13.14 13.45	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.13.14 13.45	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	01.13.14 13.45	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	01.13.14 13.45	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.13.14 13.45	U	1
Acetone	67-64-1	BRL	50	ug/L	01.13.14 13.45	U	1
Benzene	71-43-2	BRL	5.0	ug/L	01.13.14 13.45	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.13.14 13.45	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.13.14 13.45	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.13.14 13.45	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.13.14 13.45	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.13.14 13.45	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.13.14 13.45	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.13.14 13.45	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.13.14 13.45	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.13.14 13.45	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.13.14 13.45	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	5.0	ug/L	01.13.14 13.45	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.13.14 13.45	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.13.14 13.45	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.13.14 13.45	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.13.14 13.45	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.13.14 13.45	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.13.14 13.45	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.13.14 13.45	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.13.14 13.45	U	1

# Certificate of Analytical Results 477225

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (DeKalb Ave)

Sample Id: **MW-208P**  
Lab Sample Id: 477225-005

Matrix: Ground Water  
Date Collected: 01.09.14 16.33

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: LIH

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 09.12

Seq Number: 931887

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.13.14 13.45	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.13.14 13.45	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.13.14 13.45	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.13.14 13.45	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.13.14 13.45	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.13.14 13.45	U	1
<b>Tetrachloroethene</b>	127-18-4	<b>9.3</b>	5.0	ug/L	01.13.14 13.45		1
Toluene	108-88-3	BRL	5.0	ug/L	01.13.14 13.45	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	01.13.14 13.45	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.13.14 13.45	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	01.13.14 13.45	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.13.14 13.45	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	01.13.14 13.45	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	108	%	53-159	01.13.14 13.45		
4-Bromofluorobenzene	460-00-4	102	%	30-186	01.13.14 13.45		
Toluene-D8	2037-26-5	100	%	70-130	01.13.14 13.45		

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (Dekalb Ave)

Sample Id: **MW-202**  
Lab Sample Id: 477225-006

Matrix: Ground Water  
Date Collected: 01.10.14 10.49

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: LIH

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 09.12

Seq Number: 931887

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.13.14 14.10	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.13.14 14.10	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.13.14 14.10	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.13.14 14.10	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.13.14 14.10	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.13.14 14.10	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.13.14 14.10	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.13.14 14.10	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.13.14 14.10	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.13.14 14.10	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.13.14 14.10	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.13.14 14.10	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.13.14 14.10	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.13.14 14.10	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.13.14 14.10	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	01.13.14 14.10	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	01.13.14 14.10	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.13.14 14.10	U	1
Acetone	67-64-1	BRL	50	ug/L	01.13.14 14.10	U	1
Benzene	71-43-2	BRL	5.0	ug/L	01.13.14 14.10	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.13.14 14.10	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.13.14 14.10	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.13.14 14.10	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.13.14 14.10	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.13.14 14.10	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.13.14 14.10	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.13.14 14.10	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.13.14 14.10	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.13.14 14.10	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.13.14 14.10	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	5.0	ug/L	01.13.14 14.10	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.13.14 14.10	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.13.14 14.10	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.13.14 14.10	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.13.14 14.10	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.13.14 14.10	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.13.14 14.10	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.13.14 14.10	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.13.14 14.10	U	1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (Dekalb Ave)

Sample Id: **MW-202**  
Lab Sample Id: 477225-006

Matrix: Ground Water  
Date Collected: 01.10.14 10.49

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: LIH

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 09.12

Seq Number: 931887

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.13.14 14.10	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.13.14 14.10	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.13.14 14.10	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.13.14 14.10	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.13.14 14.10	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.13.14 14.10	U	1
Tetrachloroethene	127-18-4	BRL	5.0	ug/L	01.13.14 14.10	U	1
Toluene	108-88-3	BRL	5.0	ug/L	01.13.14 14.10	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	01.13.14 14.10	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.13.14 14.10	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	01.13.14 14.10	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.13.14 14.10	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	01.13.14 14.10	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	112	%	53-159	01.13.14 14.10		
4-Bromofluorobenzene	460-00-4	100	%	30-186	01.13.14 14.10		
Toluene-D8	2037-26-5	100	%	70-130	01.13.14 14.10		

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (Dekalb Ave)

Sample Id: **MW-110**  
Lab Sample Id: 477225-007

Matrix: Ground Water  
Date Collected: 01.10.14 11.10

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 07.01

Seq Number: 931893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.13.14 16.58	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.13.14 16.58	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.13.14 16.58	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.13.14 16.58	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.13.14 16.58	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.13.14 16.58	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.13.14 16.58	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.13.14 16.58	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.13.14 16.58	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.13.14 16.58	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.13.14 16.58	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.13.14 16.58	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.13.14 16.58	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.13.14 16.58	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.13.14 16.58	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	01.13.14 16.58	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	01.13.14 16.58	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.13.14 16.58	U	1
Acetone	67-64-1	BRL	50	ug/L	01.13.14 16.58	U	1
Benzene	71-43-2	BRL	5.0	ug/L	01.13.14 16.58	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.13.14 16.58	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.13.14 16.58	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.13.14 16.58	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.13.14 16.58	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.13.14 16.58	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.13.14 16.58	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.13.14 16.58	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.13.14 16.58	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.13.14 16.58	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.13.14 16.58	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	5.0	ug/L	01.13.14 16.58	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.13.14 16.58	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.13.14 16.58	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.13.14 16.58	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.13.14 16.58	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.13.14 16.58	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.13.14 16.58	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.13.14 16.58	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.13.14 16.58	U	1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (Dekalb Ave)

Sample Id: **MW-110**  
Lab Sample Id: 477225-007

Matrix: Ground Water  
Date Collected: 01.10.14 11.10

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 07.01

Seq Number: 931893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.13.14 16.58	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.13.14 16.58	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.13.14 16.58	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.13.14 16.58	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.13.14 16.58	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.13.14 16.58	U	1
Tetrachloroethene	127-18-4	BRL	5.0	ug/L	01.13.14 16.58	U	1
Toluene	108-88-3	BRL	5.0	ug/L	01.13.14 16.58	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	01.13.14 16.58	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.13.14 16.58	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	01.13.14 16.58	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.13.14 16.58	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	01.13.14 16.58	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	100	%	53-159	01.13.14 16.58		
4-Bromofluorobenzene	460-00-4	102	%	30-186	01.13.14 16.58		
Toluene-D8	2037-26-5	102	%	70-130	01.13.14 16.58		

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (Dekalb Ave)

Sample Id: **MW-111**  
Lab Sample Id: 477225-008

Matrix: Ground Water  
Date Collected: 01.10.14 12.25

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 07.01

Seq Number: 931893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.13.14 16.31	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.13.14 16.31	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.13.14 16.31	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.13.14 16.31	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.13.14 16.31	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.13.14 16.31	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.13.14 16.31	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.13.14 16.31	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.13.14 16.31	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.13.14 16.31	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.13.14 16.31	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.13.14 16.31	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.13.14 16.31	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.13.14 16.31	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.13.14 16.31	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	01.13.14 16.31	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	01.13.14 16.31	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.13.14 16.31	U	1
Acetone	67-64-1	BRL	50	ug/L	01.13.14 16.31	U	1
Benzene	71-43-2	BRL	5.0	ug/L	01.13.14 16.31	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.13.14 16.31	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.13.14 16.31	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.13.14 16.31	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.13.14 16.31	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.13.14 16.31	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.13.14 16.31	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.13.14 16.31	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.13.14 16.31	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.13.14 16.31	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.13.14 16.31	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	5.0	ug/L	01.13.14 16.31	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.13.14 16.31	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.13.14 16.31	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.13.14 16.31	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.13.14 16.31	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.13.14 16.31	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.13.14 16.31	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.13.14 16.31	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.13.14 16.31	U	1



## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (Dekalb Ave)

Sample Id: **MW-111**  
Lab Sample Id: 477225-008

Matrix: Ground Water  
Date Collected: 01.10.14 12.25

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 07.01

Seq Number: 931893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.13.14 16.31	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.13.14 16.31	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.13.14 16.31	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.13.14 16.31	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.13.14 16.31	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.13.14 16.31	U	1
Tetrachloroethene	127-18-4	BRL	5.0	ug/L	01.13.14 16.31	U	1
Toluene	108-88-3	BRL	5.0	ug/L	01.13.14 16.31	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	01.13.14 16.31	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.13.14 16.31	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	01.13.14 16.31	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.13.14 16.31	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	01.13.14 16.31	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	100	%	53-159	01.13.14 16.31		
4-Bromofluorobenzene	460-00-4	100	%	30-186	01.13.14 16.31		
Toluene-D8	2037-26-5	100	%	70-130	01.13.14 16.31		

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (Dekalb Ave)

Sample Id: **MW-409**  
Lab Sample Id: 477225-009

Matrix: Ground Water  
Date Collected: 01.10.14 14.28

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 07.01

Seq Number: 931893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.13.14 16.04	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.13.14 16.04	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.13.14 16.04	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.13.14 16.04	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.13.14 16.04	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.13.14 16.04	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.13.14 16.04	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.13.14 16.04	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.13.14 16.04	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.13.14 16.04	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.13.14 16.04	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.13.14 16.04	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.13.14 16.04	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.13.14 16.04	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.13.14 16.04	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	01.13.14 16.04	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	01.13.14 16.04	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.13.14 16.04	U	1
Acetone	67-64-1	BRL	50	ug/L	01.13.14 16.04	U	1
Benzene	71-43-2	BRL	5.0	ug/L	01.13.14 16.04	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.13.14 16.04	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.13.14 16.04	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.13.14 16.04	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.13.14 16.04	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.13.14 16.04	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.13.14 16.04	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.13.14 16.04	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.13.14 16.04	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.13.14 16.04	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.13.14 16.04	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	5.0	ug/L	01.13.14 16.04	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.13.14 16.04	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.13.14 16.04	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.13.14 16.04	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.13.14 16.04	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.13.14 16.04	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.13.14 16.04	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.13.14 16.04	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.13.14 16.04	U	1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (DeKalb Ave)

Sample Id: **MW-409**  
Lab Sample Id: 477225-009

Matrix: Ground Water  
Date Collected: 01.10.14 14.28

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 07.01

Seq Number: 931893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.13.14 16.04	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.13.14 16.04	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.13.14 16.04	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.13.14 16.04	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.13.14 16.04	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.13.14 16.04	U	1
<b>Tetrachloroethene</b>	127-18-4	<b>5.1</b>	5.0	ug/L	01.13.14 16.04		1
Toluene	108-88-3	BRL	5.0	ug/L	01.13.14 16.04	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	01.13.14 16.04	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.13.14 16.04	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	01.13.14 16.04	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.13.14 16.04	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	01.13.14 16.04	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	100	%	53-159	01.13.14 16.04		
4-Bromofluorobenzene	460-00-4	102	%	30-186	01.13.14 16.04		
Toluene-D8	2037-26-5	98	%	70-130	01.13.14 16.04		

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (Dekalb Ave)

Sample Id: **MW-409D**

Matrix: Ground Water

Date Received: 01.10.14 17.20

Lab Sample Id: 477225-010

Date Collected: 01.10.14 13.09

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: MLA

Date Prep: 01.15.14 06.39

Seq Number: 932045

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.15.14 12.00	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.15.14 12.00	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.15.14 12.00	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.15.14 12.00	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.15.14 12.00	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.15.14 12.00	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.15.14 12.00	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.15.14 12.00	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.15.14 12.00	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.15.14 12.00	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.15.14 12.00	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.15.14 12.00	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.15.14 12.00	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.15.14 12.00	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.15.14 12.00	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	01.15.14 12.00	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	01.15.14 12.00	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.15.14 12.00	U	1
Acetone	67-64-1	BRL	50	ug/L	01.15.14 12.00	U	1
Benzene	71-43-2	BRL	5.0	ug/L	01.15.14 12.00	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.15.14 12.00	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.15.14 12.00	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.15.14 12.00	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.15.14 12.00	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.15.14 12.00	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.15.14 12.00	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.15.14 12.00	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.15.14 12.00	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.15.14 12.00	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.15.14 12.00	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	5.0	ug/L	01.15.14 12.00	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.15.14 12.00	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.15.14 12.00	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.15.14 12.00	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.15.14 12.00	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.15.14 12.00	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.15.14 12.00	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.15.14 12.00	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.15.14 12.00	U	1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (DeKalb Ave)

Sample Id: **MW-409D**

Matrix: Ground Water

Date Received: 01.10.14 17.20

Lab Sample Id: 477225-010

Date Collected: 01.10.14 13.09

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: MLA

Date Prep: 01.15.14 06.39

Seq Number: 932045

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.15.14 12.00	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.15.14 12.00	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.15.14 12.00	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.15.14 12.00	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.15.14 12.00	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.15.14 12.00	U	1
Tetrachloroethene	127-18-4	BRL	5.0	ug/L	01.15.14 12.00	U	1
Toluene	108-88-3	BRL	5.0	ug/L	01.15.14 12.00	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	01.15.14 12.00	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.15.14 12.00	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	01.15.14 12.00	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.15.14 12.00	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	01.15.14 12.00	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	102	%	53-159	01.15.14 12.00		
4-Bromofluorobenzene	460-00-4	102	%	30-186	01.15.14 12.00		
Toluene-D8	2037-26-5	100	%	70-130	01.15.14 12.00		

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (Dekalb Ave)

Sample Id: **MW-214**  
Lab Sample Id: 477225-011

Matrix: Ground Water  
Date Collected: 01.10.14 15.25

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 07.01

Seq Number: 931893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.13.14 13.49	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.13.14 13.49	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.13.14 13.49	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.13.14 13.49	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.13.14 13.49	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.13.14 13.49	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.13.14 13.49	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.13.14 13.49	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.13.14 13.49	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.13.14 13.49	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.13.14 13.49	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.13.14 13.49	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.13.14 13.49	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.13.14 13.49	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.13.14 13.49	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	01.13.14 13.49	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	01.13.14 13.49	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.13.14 13.49	U	1
Acetone	67-64-1	BRL	50	ug/L	01.13.14 13.49	U	1
Benzene	71-43-2	BRL	5.0	ug/L	01.13.14 13.49	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.13.14 13.49	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.13.14 13.49	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.13.14 13.49	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.13.14 13.49	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.13.14 13.49	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.13.14 13.49	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.13.14 13.49	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.13.14 13.49	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.13.14 13.49	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.13.14 13.49	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	5.0	ug/L	01.13.14 13.49	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.13.14 13.49	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.13.14 13.49	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.13.14 13.49	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.13.14 13.49	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.13.14 13.49	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.13.14 13.49	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.13.14 13.49	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.13.14 13.49	U	1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (Dekalb Ave)

Sample Id: **MW-214**  
Lab Sample Id: 477225-011

Matrix: Ground Water  
Date Collected: 01.10.14 15.25

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 07.01

Seq Number: 931893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.13.14 13.49	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.13.14 13.49	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.13.14 13.49	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.13.14 13.49	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.13.14 13.49	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.13.14 13.49	U	1
Tetrachloroethene	127-18-4	BRL	5.0	ug/L	01.13.14 13.49	U	1
Toluene	108-88-3	BRL	5.0	ug/L	01.13.14 13.49	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	01.13.14 13.49	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.13.14 13.49	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	01.13.14 13.49	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.13.14 13.49	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	01.13.14 13.49	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	100	%	53-159	01.13.14 13.49		
4-Bromofluorobenzene	460-00-4	100	%	30-186	01.13.14 13.49		
Toluene-D8	2037-26-5	100	%	70-130	01.13.14 13.49		

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (Dekalb Ave)

Sample Id: **MW-204**  
Lab Sample Id: 477225-012

Matrix: Ground Water  
Date Collected: 01.10.14 16.08

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 07.01

Seq Number: 931893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.13.14 17.53	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.13.14 17.53	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.13.14 17.53	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.13.14 17.53	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.13.14 17.53	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.13.14 17.53	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.13.14 17.53	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.13.14 17.53	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.13.14 17.53	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.13.14 17.53	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.13.14 17.53	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.13.14 17.53	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.13.14 17.53	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.13.14 17.53	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.13.14 17.53	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	01.13.14 17.53	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	01.13.14 17.53	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.13.14 17.53	U	1
Acetone	67-64-1	BRL	50	ug/L	01.13.14 17.53	U	1
Benzene	71-43-2	BRL	5.0	ug/L	01.13.14 17.53	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.13.14 17.53	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.13.14 17.53	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.13.14 17.53	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.13.14 17.53	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.13.14 17.53	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.13.14 17.53	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.13.14 17.53	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.13.14 17.53	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.13.14 17.53	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.13.14 17.53	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	5.0	ug/L	01.13.14 17.53	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.13.14 17.53	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.13.14 17.53	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.13.14 17.53	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.13.14 17.53	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.13.14 17.53	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.13.14 17.53	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.13.14 17.53	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.13.14 17.53	U	1



## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (Dekalb Ave)

Sample Id: **MW-204**  
Lab Sample Id: 477225-012

Matrix: Ground Water  
Date Collected: 01.10.14 16.08

Date Received: 01.10.14 17.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 07.01

Seq Number: 931893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.13.14 17.53	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.13.14 17.53	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.13.14 17.53	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.13.14 17.53	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.13.14 17.53	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.13.14 17.53	U	1
<b>Tetrachloroethene</b>	127-18-4	<b>7.9</b>	5.0	ug/L	01.13.14 17.53		1
Toluene	108-88-3	BRL	5.0	ug/L	01.13.14 17.53	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	01.13.14 17.53	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.13.14 17.53	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	01.13.14 17.53	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.13.14 17.53	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	01.13.14 17.53	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	98	%	53-159	01.13.14 17.53		
4-Bromofluorobenzene	460-00-4	100	%	30-186	01.13.14 17.53		
Toluene-D8	2037-26-5	100	%	70-130	01.13.14 17.53		

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (Dekalb Ave)

Sample Id: **Trip Blank**

Matrix: Water

Date Received: 01.10.14 17.20

Lab Sample Id: 477225-013

Date Collected: 01.09.14 00.00

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 07.01

Seq Number: 931893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.13.14 10.06	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.13.14 10.06	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.13.14 10.06	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.13.14 10.06	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.13.14 10.06	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.13.14 10.06	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.13.14 10.06	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.13.14 10.06	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.13.14 10.06	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.13.14 10.06	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.13.14 10.06	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.13.14 10.06	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.13.14 10.06	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.13.14 10.06	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.13.14 10.06	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	01.13.14 10.06	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	01.13.14 10.06	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.13.14 10.06	U	1
Acetone	67-64-1	BRL	50	ug/L	01.13.14 10.06	U	1
Benzene	71-43-2	BRL	5.0	ug/L	01.13.14 10.06	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.13.14 10.06	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.13.14 10.06	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.13.14 10.06	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.13.14 10.06	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.13.14 10.06	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.13.14 10.06	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.13.14 10.06	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.13.14 10.06	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.13.14 10.06	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.13.14 10.06	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	5.0	ug/L	01.13.14 10.06	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.13.14 10.06	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.13.14 10.06	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.13.14 10.06	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.13.14 10.06	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.13.14 10.06	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.13.14 10.06	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.13.14 10.06	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.13.14 10.06	U	1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb (DeKalb Ave)

Sample Id: **Trip Blank**

Matrix: Water

Date Received: 01.10.14 17.20

Lab Sample Id: 477225-013

Date Collected: 01.09.14 00.00

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 01.13.14 07.01

Seq Number: 931893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.13.14 10.06	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.13.14 10.06	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.13.14 10.06	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.13.14 10.06	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.13.14 10.06	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.13.14 10.06	U	1
Tetrachloroethene	127-18-4	BRL	5.0	ug/L	01.13.14 10.06	U	1
Toluene	108-88-3	BRL	5.0	ug/L	01.13.14 10.06	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	01.13.14 10.06	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.13.14 10.06	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	01.13.14 10.06	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.13.14 10.06	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	01.13.14 10.06	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	100	%	53-159	01.13.14 10.06		
4-Bromofluorobenzene	460-00-4	98	%	30-186	01.13.14 10.06		
Toluene-D8	2037-26-5	100	%	70-130	01.13.14 10.06		

# Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***

*Certified and approved by numerous States and Agencies.*

***A Small Business and Minority Status Company that delivers SERVICE and QUALITY***

Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Phoenix - Latin America

4143 Greenbriar Dr, Stafford, TX 77477  
9701 Harry Hines Blvd, Dallas, TX 75220  
5332 Blackberry Drive, San Antonio TX 78238  
2505 North Falkenburg Rd, Tampa, FL 33619  
12600 West I-20 East, Odessa, TX 79765  
6017 Financial Drive, Norcross, GA 30071  
3725 E. Atlanta Ave, Phoenix, AZ 85040

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

**Atlanta Environmental Management**  
Aramark - Dekalb (Dekalb Ave)

**Analytical Method:** VOCs by SW-846 8260B

Seq Number: 931893

MB Sample Id: 649686-1-BLK

Matrix: Water

LCS Sample Id: 649686-1-BKS

Prep Method: SW5030B

Date Prep: 01.13.14

LCSD Sample Id: 649686-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.34	50	52	104	51	102	56-141	2	20	ug/L	01.13.14 07:50	
1,1,2,2-Tetrachloroethane	<2.0	50	47	94	46	92	64-135	2	20	ug/L	01.13.14 07:50	
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.97	50	55	110	54	108	54-134	2	20	ug/L	01.13.14 07:50	
1,1,2-Trichloroethane	<0.88	50	51	102	49	98	73-123	4	20	ug/L	01.13.14 07:50	
1,1-Dichloroethane	<0.74	50	51	102	50	100	66-126	2	20	ug/L	01.13.14 07:50	
1,1-Dichloroethene	<0.98	50	53	106	52	104	65-129	2	20	ug/L	01.13.14 07:50	
1,2,3-Trichlorobenzene	<2.6	50	53	106	51	102	56-146	4	20	ug/L	01.13.14 07:50	
1,2,4-Trichlorobenzene	<1.3	50	50	100	47	94	62-141	6	20	ug/L	01.13.14 07:50	
1,2-Dibromo-3-chloropropane (DBCP)	<2.8	50	44	88	45	90	48-144	2	20	ug/L	01.13.14 07:50	
1,2-Dibromoethane (EDB)	<0.79	50	51	102	50	100	70-130	2	20	ug/L	01.13.14 07:50	
1,2-Dichlorobenzene	<0.73	50	51	102	49	98	77-123	4	20	ug/L	01.13.14 07:50	
1,2-Dichloroethane	<0.82	50	50	100	50	100	57-137	0	20	ug/L	01.13.14 07:50	
1,2-Dichloropropane	<0.81	50	51	102	49	98	74-121	4	20	ug/L	01.13.14 07:50	
1,3-Dichlorobenzene	<0.74	50	51	102	49	98	79-120	4	20	ug/L	01.13.14 07:50	
1,4-Dichlorobenzene	<0.59	50	50	100	49	98	77-119	2	20	ug/L	01.13.14 07:50	
2-Butanone (MEK)	<1.3	100	99	99	96	96	42-165	3	20	ug/L	01.13.14 07:50	
2-Hexanone	<2.5	100	98	98	97	97	46-157	1	20	ug/L	01.13.14 07:50	
4-Methyl-2-pentanone (MIBK)	<2.2	100	97	97	95	95	54-145	2	20	ug/L	01.13.14 07:50	
Acetone	<1.4	100	97	97	95	95	42-178	2	20	ug/L	01.13.14 07:50	
Benzene	<0.67	50	51	102	50	100	76-119	2	20	ug/L	01.13.14 07:50	
Bromochloromethane	<0.47	50	53	106	51	102	75-123	4	20	ug/L	01.13.14 07:50	
Bromodichloromethane	<0.96	50	53	106	51	102	69-131	4	20	ug/L	01.13.14 07:50	
Bromoform	<1.4	50	51	102	50	100	66-130	2	20	ug/L	01.13.14 07:50	
Bromomethane	<2.7	50	51	102	50	100	59-141	2	20	ug/L	01.13.14 07:50	
Carbon disulfide	<0.73	50	54	108	51	102	47-144	6	20	ug/L	01.13.14 07:50	
Carbon tetrachloride	<0.89	50	55	110	53	106	46-155	4	20	ug/L	01.13.14 07:50	
Chlorobenzene	<0.59	50	51	102	50	100	81-114	2	20	ug/L	01.13.14 07:50	
Chloroethane	<0.23	50	50	100	51	102	63-133	2	20	ug/L	01.13.14 07:50	
Chloroform	<1.4	50	52	104	50	100	68-127	4	20	ug/L	01.13.14 07:50	
Chloromethane	<1.2	50	46	92	46	92	43-141	0	20	ug/L	01.13.14 07:50	
cis-1,2-Dichloroethene	<0.80	50	53	106	52	104	73-124	2	20	ug/L	01.13.14 07:50	
cis-1,3-Dichloropropene	<0.76	50	54	108	53	106	72-132	2	20	ug/L	01.13.14 07:50	
Cyclohexane	<0.99	50	52	104	52	104	58-125	0	20	ug/L	01.13.14 07:50	
Dibromochloromethane	<0.79	50	52	104	51	102	69-128	2	20	ug/L	01.13.14 07:50	
Dichlorodifluoromethane	<0.73	50	52	104	52	104	24-153	0	20	ug/L	01.13.14 07:50	
Ethylbenzene	<0.66	50	51	102	49	98	78-122	4	20	ug/L	01.13.14 07:50	
Isopropylbenzene	<1.0	50	50	100	49	98	71-131	2	20	ug/L	01.13.14 07:50	
m,p-Xylenes	<1.2	100	100	100	99	99	76-124	1	20	ug/L	01.13.14 07:50	
Methyl acetate	<0.15	50	49	98	47	94	65-135	4	20	ug/L	01.13.14 07:50	
Methyl tert-butyl ether	<0.62	100	110	110	100	100	59-135	10	20	ug/L	01.13.14 07:50	
Methylcyclohexane	<0.76	50	56	112	54	108	61-125	4	20	ug/L	01.13.14 07:50	
Methylene chloride	<0.92	50	47	94	48	96	64-135	2	20	ug/L	01.13.14 07:50	
Naphthalene	<4.0	50	46	92	45	90	46-159	2	20	ug/L	01.13.14 07:50	
o-Xylene	<0.57	50	52	104	50	100	78-124	4	20	ug/L	01.13.14 07:50	
Styrene	<0.56	50	51	102	50	100	79-123	2	20	ug/L	01.13.14 07:50	
Tetrachloroethene	<1.8	50	52	104	51	102	71-125	2	20	ug/L	01.13.14 07:50	
Toluene	<0.68	50	51	102	49	98	78-118	4	20	ug/L	01.13.14 07:50	
trans-1,2-Dichloroethene	<0.73	50	51	102	51	102	71-126	0	20	ug/L	01.13.14 07:50	
trans-1,3-Dichloropropene	<0.84	50	53	106	51	102	68-131	4	20	ug/L	01.13.14 07:50	
Trichloroethene	<0.72	50	52	104	51	102	76-118	2	20	ug/L	01.13.14 07:50	
Trichlorofluoromethane	<0.85	50	55	110	53	106	35-153	4	20	ug/L	01.13.14 07:50	
Vinyl chloride	<0.15	50	48	96	48	96	59-129	0	20	ug/L	01.13.14 07:50	

**Atlanta Environmental Management**  
Aramark - Dekalb (Dekalb Ave)

**Analytical Method:** VOCs by SW-846 8260B

Seq Number: 931893

MB Sample Id: 649686-1-BLK

Matrix: Water

LCS Sample Id: 649686-1-BKS

Prep Method: SW5030B

Date Prep: 01.13.14

LCSD Sample Id: 649686-1-BSD

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	102		98		100		53-159	%	01.13.14 07:50
4-Bromofluorobenzene	96		98		98		30-186	%	01.13.14 07:50
Toluene-D8	100		98		100		70-130	%	01.13.14 07:50

**Atlanta Environmental Management**  
Aramark - Dekalb (Dekalb Ave)

**Analytical Method:** VOCs by SW-846 8260B

Seq Number: 931887

MB Sample Id: 649685-1-BLK

Matrix: Water

LCS Sample Id: 649685-1-BKS

Prep Method: SW5030B

Date Prep: 01.13.14

LCSD Sample Id: 649685-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.34	50	56	112	53	106	56-141	6	20	ug/L	01.13.14 09:59	
1,1,2,2-Tetrachloroethane	<2.0	50	63	126	60	120	64-135	5	20	ug/L	01.13.14 09:59	
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.97	50	60	120	60	120	54-134	0	20	ug/L	01.13.14 09:59	
1,1,2-Trichloroethane	<0.88	50	60	120	56	112	73-123	7	20	ug/L	01.13.14 09:59	
1,1-Dichloroethane	<0.74	50	53	106	52	104	66-126	2	20	ug/L	01.13.14 09:59	
1,1-Dichloroethene	<0.98	50	57	114	57	114	65-129	0	20	ug/L	01.13.14 09:59	
1,2,3-Trichlorobenzene	<2.6	50	62	124	58	116	56-146	7	20	ug/L	01.13.14 09:59	
1,2,4-Trichlorobenzene	<1.3	50	62	124	57	114	62-141	8	20	ug/L	01.13.14 09:59	
1,2-Dibromo-3-chloropropane (DBCP)	<2.8	50	63	126	59	118	48-144	7	20	ug/L	01.13.14 09:59	
1,2-Dibromoethane (EDB)	<0.79	50	60	120	57	114	70-130	5	20	ug/L	01.13.14 09:59	
1,2-Dichlorobenzene	<0.73	50	59	118	55	110	77-123	7	20	ug/L	01.13.14 09:59	
1,2-Dichloroethane	<0.82	50	54	108	52	104	57-137	4	20	ug/L	01.13.14 09:59	
1,2-Dichloropropane	<0.81	50	53	106	51	102	74-121	4	20	ug/L	01.13.14 09:59	
1,3-Dichlorobenzene	<0.74	50	59	118	55	110	79-120	7	20	ug/L	01.13.14 09:59	
1,4-Dichlorobenzene	<0.59	50	57	114	53	106	77-119	7	20	ug/L	01.13.14 09:59	
2-Butanone (MEK)	<1.3	100	110	110	110	110	42-165	0	20	ug/L	01.13.14 09:59	
2-Hexanone	<2.5	100	140	140	140	140	46-157	0	20	ug/L	01.13.14 09:59	
4-Methyl-2-pentanone (MIBK)	<2.2	100	130	130	130	130	54-145	0	20	ug/L	01.13.14 09:59	
Acetone	<1.4	100	130	130	130	130	42-178	0	20	ug/L	01.13.14 09:59	
Benzene	<0.67	50	53	106	52	104	76-119	2	20	ug/L	01.13.14 09:59	
Bromochloromethane	<0.47	50	61	122	55	110	75-123	10	20	ug/L	01.13.14 09:59	
Bromodichloromethane	<0.96	50	59	118	58	116	69-131	2	20	ug/L	01.13.14 09:59	
Bromoform	<1.4	50	58	116	53	106	66-130	9	20	ug/L	01.13.14 09:59	
Bromomethane	<2.7	50	59	118	59	118	59-141	0	20	ug/L	01.13.14 09:59	
Carbon disulfide	<0.73	50	61	122	61	122	47-144	0	20	ug/L	01.13.14 09:59	
Carbon tetrachloride	<0.89	50	61	122	59	118	46-155	3	20	ug/L	01.13.14 09:59	
Chlorobenzene	<0.59	50	56	112	54	108	81-114	4	20	ug/L	01.13.14 09:59	
Chloroethane	<0.23	50	61	122	57	114	63-133	7	20	ug/L	01.13.14 09:59	
Chloroform	<1.4	50	54	108	51	102	68-127	6	20	ug/L	01.13.14 09:59	
Chloromethane	<1.2	50	56	112	53	106	43-141	6	20	ug/L	01.13.14 09:59	
cis-1,2-Dichloroethene	<0.80	50	56	112	54	108	73-124	4	20	ug/L	01.13.14 09:59	
cis-1,3-Dichloropropene	<0.76	50	58	116	56	112	72-132	4	20	ug/L	01.13.14 09:59	
Cyclohexane	<0.99	50	54	108	53	106	58-125	2	20	ug/L	01.13.14 09:59	
Dibromochloromethane	<0.79	50	54	108	52	104	69-128	4	20	ug/L	01.13.14 09:59	
Dichlorodifluoromethane	<0.73	50	56	112	55	110	24-153	2	20	ug/L	01.13.14 09:59	
Ethylbenzene	<0.66	50	57	114	55	110	78-122	4	20	ug/L	01.13.14 09:59	
Isopropylbenzene	<1.0	50	58	116	55	110	71-131	5	20	ug/L	01.13.14 09:59	
m,p-Xylenes	<1.2	100	110	110	110	110	76-124	0	20	ug/L	01.13.14 09:59	
Methyl acetate	<0.15	50	59	118	59	118	65-135	0	20	ug/L	01.13.14 09:59	
Methyl tert-butyl ether	<0.62	100	110	110	120	120	59-135	9	20	ug/L	01.13.14 09:59	
Methylcyclohexane	<0.76	50	55	110	57	114	61-125	4	20	ug/L	01.13.14 09:59	
Methylene chloride	<0.92	50	59	118	57	114	64-135	3	20	ug/L	01.13.14 09:59	
Naphthalene	<4.0	50	69	138	66	132	46-159	4	20	ug/L	01.13.14 09:59	
o-Xylene	<0.57	50	59	118	57	114	78-124	3	20	ug/L	01.13.14 09:59	
Styrene	<0.56	50	60	120	57	114	79-123	5	20	ug/L	01.13.14 09:59	
Tetrachloroethene	<1.8	50	56	112	52	104	71-125	7	20	ug/L	01.13.14 09:59	
Toluene	<0.68	50	54	108	52	104	78-118	4	20	ug/L	01.13.14 09:59	
trans-1,2-Dichloroethene	<0.73	50	60	120	57	114	71-126	5	20	ug/L	01.13.14 09:59	
trans-1,3-Dichloropropene	<0.84	50	60	120	57	114	68-131	5	20	ug/L	01.13.14 09:59	
Trichloroethene	<0.72	50	51	102	55	110	76-118	8	20	ug/L	01.13.14 09:59	
Trichlorofluoromethane	<0.85	50	60	120	57	114	35-153	5	20	ug/L	01.13.14 09:59	
Vinyl chloride	<0.15	50	58	116	57	114	59-129	2	20	ug/L	01.13.14 09:59	

**Atlanta Environmental Management**  
Aramark - Dekalb (Dekalb Ave)

**Analytical Method:** VOCs by SW-846 8260B

Seq Number: 931887

MB Sample Id: 649685-1-BLK

Matrix: Water

LCS Sample Id: 649685-1-BKS

Prep Method: SW5030B

Date Prep: 01.13.14

LCSD Sample Id: 649685-1-BSD

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	108		96		96		53-159	%	01.13.14 09:59
4-Bromofluorobenzene	102		98		98		30-186	%	01.13.14 09:59
Toluene-D8	100		98		100		70-130	%	01.13.14 09:59



Atlanta Environmental Management  
Aramark - Dekalb (Dekalb Ave)

Analytical Method: VOCs by SW-846 8260B

Seq Number: 932045

MB Sample Id: 649782-1-BLK

Matrix: Water

LCS Sample Id: 649782-1-BKS

Prep Method: SW5030B

Date Prep: 01.15.14

LCSD Sample Id: 649782-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.34	50	43	86	47	94	56-141	9	20	ug/L	01.15.14 07:55	
1,1,2,2-Tetrachloroethane	<2.0	50	49	98	52	104	64-135	6	20	ug/L	01.15.14 07:55	
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.97	50	42	84	46	92	54-134	9	20	ug/L	01.15.14 07:55	
1,1,2-Trichloroethane	<0.88	50	47	94	51	102	73-123	8	20	ug/L	01.15.14 07:55	
1,1-Dichloroethane	<0.74	50	44	88	49	98	66-126	11	20	ug/L	01.15.14 07:55	
1,1-Dichloroethene	<0.98	50	42	84	47	94	65-129	11	20	ug/L	01.15.14 07:55	
1,2,3-Trichlorobenzene	<2.6	50	45	90	46	92	56-146	2	20	ug/L	01.15.14 07:55	
1,2,4-Trichlorobenzene	1.4	50	42	84	44	88	62-141	5	20	ug/L	01.15.14 07:55	
1,2-Dibromo-3-chloropropane (DBCP)	<2.8	50	48	96	49	98	48-144	2	20	ug/L	01.15.14 07:55	
1,2-Dibromoethane (EDB)	<0.79	50	48	96	52	104	70-130	8	20	ug/L	01.15.14 07:55	
1,2-Dichlorobenzene	<0.73	50	45	90	48	96	77-123	6	20	ug/L	01.15.14 07:55	
1,2-Dichloroethane	<0.82	50	46	92	51	102	57-137	10	20	ug/L	01.15.14 07:55	
1,2-Dichloropropane	<0.81	50	45	90	49	98	74-121	9	20	ug/L	01.15.14 07:55	
1,3-Dichlorobenzene	<0.74	50	44	88	48	96	79-120	9	20	ug/L	01.15.14 07:55	
1,4-Dichlorobenzene	<0.59	50	44	88	48	96	77-119	9	20	ug/L	01.15.14 07:55	
2-Butanone (MEK)	<1.3	100	100	100	110	110	42-165	10	20	ug/L	01.15.14 07:55	
2-Hexanone	<2.5	100	100	100	110	110	46-157	10	20	ug/L	01.15.14 07:55	
4-Methyl-2-pentanone (MIBK)	<2.2	100	100	100	100	100	54-145	0	20	ug/L	01.15.14 07:55	
Acetone	<1.4	100	110	110	110	110	42-178	0	20	ug/L	01.15.14 07:55	
Benzene	<0.67	50	44	88	48	96	76-119	9	20	ug/L	01.15.14 07:55	
Bromochloromethane	<0.47	50	48	96	53	106	75-123	10	20	ug/L	01.15.14 07:55	
Bromodichloromethane	<0.96	50	46	92	50	100	69-131	8	20	ug/L	01.15.14 07:55	
Bromoform	<1.4	50	49	98	53	106	66-130	8	20	ug/L	01.15.14 07:55	
Bromomethane	<2.7	50	41	82	45	90	59-141	9	20	ug/L	01.15.14 07:55	
Carbon disulfide	<0.73	50	43	86	46	92	47-144	7	20	ug/L	01.15.14 07:55	
Carbon tetrachloride	<0.89	50	43	86	47	94	46-155	9	20	ug/L	01.15.14 07:55	
Chlorobenzene	<0.59	50	44	88	48	96	81-114	9	20	ug/L	01.15.14 07:55	
Chloroethane	<0.23	50	40	80	43	86	63-133	7	20	ug/L	01.15.14 07:55	
Chloroform	<1.4	50	45	90	50	100	68-127	11	20	ug/L	01.15.14 07:55	
Chloromethane	<1.2	50	40	80	43	86	43-141	7	20	ug/L	01.15.14 07:55	
cis-1,2-Dichloroethene	<0.80	50	46	92	50	100	73-124	8	20	ug/L	01.15.14 07:55	
cis-1,3-Dichloropropene	<0.76	50	47	94	51	102	72-132	8	20	ug/L	01.15.14 07:55	
Cyclohexane	<0.99	50	41	82	45	90	58-125	9	20	ug/L	01.15.14 07:55	
Dibromochloromethane	<0.79	50	47	94	51	102	69-128	8	20	ug/L	01.15.14 07:55	
Dichlorodifluoromethane	<0.73	50	43	86	47	94	24-153	9	20	ug/L	01.15.14 07:55	
Ethylbenzene	<0.66	50	42	84	46	92	78-122	9	20	ug/L	01.15.14 07:55	
Isopropylbenzene	<1.0	50	42	84	46	92	71-131	9	20	ug/L	01.15.14 07:55	
m,p-Xylenes	<1.2	100	85	85	93	93	76-124	9	20	ug/L	01.15.14 07:55	
Methyl acetate	<0.15	50	53	106	55	110	65-135	4	20	ug/L	01.15.14 07:55	
Methyl tert-butyl ether	<0.62	100	100	100	110	110	59-135	10	20	ug/L	01.15.14 07:55	
Methylcyclohexane	0.79	50	41	82	46	92	61-125	11	20	ug/L	01.15.14 07:55	
Methylene chloride	<0.92	50	46	92	50	100	64-135	8	20	ug/L	01.15.14 07:55	
Naphthalene	<4.0	50	45	90	45	90	46-159	0	20	ug/L	01.15.14 07:55	
o-Xylene	<0.57	50	44	88	47	94	78-124	7	20	ug/L	01.15.14 07:55	
Styrene	<0.56	50	44	88	48	96	79-123	9	20	ug/L	01.15.14 07:55	
Tetrachloroethene	<1.8	50	42	84	45	90	71-125	7	20	ug/L	01.15.14 07:55	
Toluene	<0.68	50	43	86	46	92	78-118	7	20	ug/L	01.15.14 07:55	
trans-1,2-Dichloroethene	<0.73	50	44	88	48	96	71-126	9	20	ug/L	01.15.14 07:55	
trans-1,3-Dichloropropene	<0.84	50	47	94	52	104	68-131	10	20	ug/L	01.15.14 07:55	
Trichloroethene	3.5	50	43	86	48	96	76-118	11	20	ug/L	01.15.14 07:55	
Trichlorofluoromethane	<0.85	50	41	82	45	90	35-153	9	20	ug/L	01.15.14 07:55	
Vinyl chloride	<0.15	50	42	84	45	90	59-129	7	20	ug/L	01.15.14 07:55	

**Atlanta Environmental Management**  
Aramark - Dekalb (Dekalb Ave)

**Analytical Method:** VOCs by SW-846 8260B

Seq Number: 932045

MB Sample Id: 649782-1-BLK

Matrix: Water

LCS Sample Id: 649782-1-BKS

Prep Method: SW5030B

Date Prep: 01.15.14

LCSD Sample Id: 649782-1-BSD

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	102		100		102		53-159	%	01.15.14 07:55
4-Bromofluorobenzene	102		102		102		30-186	%	01.15.14 07:55
Toluene-D8	98		96		96		70-130	%	01.15.14 07:55

**Atlanta Environmental Management**  
Aramark - Dekalb (Dekalb Ave)

**Analytical Method:** VOCs by SW-846 8260B

Seq Number: 931893

Parent Sample Id: 477225-001

Matrix: Ground Water

MS Sample Id: 477225-001 S

Prep Method: SW5030B

Date Prep: 01.13.14

MSD Sample Id: 477225-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.34	50	51	102	49	98	63-149	4	20	ug/L	01.13.14 18:20	
1,1,2,2-Tetrachloroethane	<2.0	50	49	98	47	94	58-140	4	20	ug/L	01.13.14 18:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.97	50	54	108	51	102	42-156	6	20	ug/L	01.13.14 18:20	
1,1,2-Trichloroethane	<0.88	50	50	100	49	98	49-140	2	20	ug/L	01.13.14 18:20	
1,1-Dichloroethane	<0.74	50	50	100	48	96	67-136	4	20	ug/L	01.13.14 18:20	
1,1-Dichloroethene	<0.98	50	50	100	47	94	52-141	6	20	ug/L	01.13.14 18:20	
1,2,3-Trichlorobenzene	<2.6	50	49	98	50	100	50-131	2	20	ug/L	01.13.14 18:20	
1,2,4-Trichlorobenzene	<1.3	50	46	92	46	92	51-125	0	20	ug/L	01.13.14 18:20	
1,2-Dibromo-3-chloropropane (DBCP)	<2.8	50	46	92	46	92	43-155	0	20	ug/L	01.13.14 18:20	
1,2-Dibromoethane (EDB)	<0.79	50	50	100	50	100	66-136	0	20	ug/L	01.13.14 18:20	
1,2-Dichlorobenzene	<0.73	50	49	98	48	96	70-124	2	20	ug/L	01.13.14 18:20	
1,2-Dichloroethane	<0.82	50	50	100	49	98	71-143	2	20	ug/L	01.13.14 18:20	
1,2-Dichloropropane	<0.81	50	49	98	48	96	74-125	2	20	ug/L	01.13.14 18:20	
1,3-Dichlorobenzene	<0.74	50	49	98	49	98	73-123	0	20	ug/L	01.13.14 18:20	
1,4-Dichlorobenzene	<0.59	50	48	96	48	96	74-116	0	20	ug/L	01.13.14 18:20	
2-Butanone (MEK)	<1.3	100	100	100	96	96	43-155	4	20	ug/L	01.13.14 18:20	
2-Hexanone	<2.5	100	100	100	99	99	52-148	1	20	ug/L	01.13.14 18:20	
4-Methyl-2-pentanone (MIBK)	<2.2	100	100	100	98	98	61-141	2	20	ug/L	01.13.14 18:20	
Acetone	<1.4	100	100	100	96	96	40-140	4	20	ug/L	01.13.14 18:20	
Benzene	<0.67	50	49	98	47	94	78-117	4	20	ug/L	01.13.14 18:20	
Bromochloromethane	<0.47	50	51	102	50	100	65-127	2	20	ug/L	01.13.14 18:20	
Bromodichloromethane	<0.96	50	50	100	49	98	71-133	2	20	ug/L	01.13.14 18:20	
Bromoform	<1.4	50	48	96	48	96	55-129	0	20	ug/L	01.13.14 18:20	
Bromomethane	<2.7	50	55	110	52	104	49-157	6	20	ug/L	01.13.14 18:20	
Carbon disulfide	<0.73	50	50	100	49	98	31-142	2	20	ug/L	01.13.14 18:20	
Carbon tetrachloride	<0.89	50	50	100	47	94	63-152	6	20	ug/L	01.13.14 18:20	
Chlorobenzene	<0.59	50	49	98	48	96	75-117	2	20	ug/L	01.13.14 18:20	
Chloroethane	<0.23	50	52	104	52	104	49-147	0	20	ug/L	01.13.14 18:20	
Chloroform	<1.4	50	51	102	50	100	67-136	2	20	ug/L	01.13.14 18:20	
Chloromethane	<1.2	50	43	86	37	74	35-162	15	20	ug/L	01.13.14 18:20	
cis-1,2-Dichloroethene	<0.80	50	50	100	49	98	64-132	2	20	ug/L	01.13.14 18:20	
cis-1,3-Dichloropropene	<0.76	50	51	102	49	98	69-116	4	20	ug/L	01.13.14 18:20	
Cyclohexane	<0.99	50	46	92	43	86	59-141	7	20	ug/L	01.13.14 18:20	
Dibromochloromethane	<0.79	50	49	98	49	98	54-144	0	20	ug/L	01.13.14 18:20	
Dichlorodifluoromethane	<0.73	50	48	96	43	86	26-171	11	20	ug/L	01.13.14 18:20	
Ethylbenzene	<0.66	50	48	96	47	94	74-131	2	20	ug/L	01.13.14 18:20	
Isopropylbenzene	<1.0	50	49	98	48	96	63-133	2	20	ug/L	01.13.14 18:20	
m,p-Xylenes	<1.2	100	98	98	95	95	67-134	3	20	ug/L	01.13.14 18:20	
Methyl acetate	<0.15	50	49	98	46	92	65-135	6	20	ug/L	01.13.14 18:20	
Methyl tert-butyl ether	<0.62	100	100	100	100	100	51-156	0	20	ug/L	01.13.14 18:20	
Methylcyclohexane	<0.76	50	54	108	51	102	62-123	6	20	ug/L	01.13.14 18:20	
Methylene chloride	<0.92	50	50	100	47	94	52-165	6	20	ug/L	01.13.14 18:20	
Naphthalene	<4.0	50	45	90	45	90	31-151	0	20	ug/L	01.13.14 18:20	
o-Xylene	<0.57	50	49	98	48	96	70-125	2	20	ug/L	01.13.14 18:20	
Styrene	<0.56	50	49	98	48	96	42-145	2	20	ug/L	01.13.14 18:20	
Tetrachloroethene	<1.8	50	49	98	48	96	57-132	2	20	ug/L	01.13.14 18:20	
Toluene	<0.68	50	48	96	47	94	76-119	2	20	ug/L	01.13.14 18:20	
trans-1,2-Dichloroethene	<0.73	50	49	98	47	94	46-152	4	20	ug/L	01.13.14 18:20	
trans-1,3-Dichloropropene	<0.84	50	49	98	49	98	60-132	0	20	ug/L	01.13.14 18:20	
Trichloroethene	<0.72	50	51	102	49	98	77-120	4	20	ug/L	01.13.14 18:20	
Trichlorofluoromethane	<0.85	50	53	106	50	100	47-165	6	20	ug/L	01.13.14 18:20	
Vinyl chloride	<0.15	50	46	92	44	88	43-148	4	20	ug/L	01.13.14 18:20	

**Atlanta Environmental Management**  
Aramark - Dekalb (Dekalb Ave)

**Analytical Method:** VOCs by SW-846 8260B

Seq Number: 931893

Parent Sample Id: 477225-001

Matrix: Ground Water

MS Sample Id: 477225-001 S

Prep Method: SW5030B

Date Prep: 01.13.14

MSD Sample Id: 477225-001 SD

**Surrogate**

1,2-Dichloroethane-D4

4-Bromofluorobenzene

Toluene-D8

MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
100		100		53-159	%	01.13.14 18:20
100		100		30-186	%	01.13.14 18:20
98		100		70-130	%	01.13.14 18:20

**Atlanta Environmental Management**  
Aramark - Dekalb (Dekalb Ave)

**Analytical Method:** VOCs by SW-846 8260B

Seq Number: 931887

Parent Sample Id: 477183-024

Matrix: Ground Water

MS Sample Id: 477183-024 S

Prep Method: SW5030B

Date Prep: 01.13.14

MSD Sample Id: 477183-024 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.34	50	56	112	56	112	63-149	0	20	ug/L	01.13.14 12:29	
1,1,2,2-Tetrachloroethane	<2.0	50	58	116	62	124	58-140	7	20	ug/L	01.13.14 12:29	
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.97	50	57	114	57	114	42-156	0	20	ug/L	01.13.14 12:29	
1,1,2-Trichloroethane	<0.88	50	57	114	59	118	49-140	3	20	ug/L	01.13.14 12:29	
1,1-Dichloroethane	<0.74	50	53	106	53	106	67-136	0	20	ug/L	01.13.14 12:29	
1,1-Dichloroethene	<0.98	50	56	112	58	116	52-141	4	20	ug/L	01.13.14 12:29	
1,2,3-Trichlorobenzene	<2.6	50	57	114	58	116	50-131	2	20	ug/L	01.13.14 12:29	
1,2,4-Trichlorobenzene	<1.3	50	54	108	56	112	51-125	4	20	ug/L	01.13.14 12:29	
1,2-Dibromo-3-chloropropane (DBCP)	<2.8	50	59	118	61	122	43-155	3	20	ug/L	01.13.14 12:29	
1,2-Dibromoethane (EDB)	<0.79	50	56	112	60	120	66-136	7	20	ug/L	01.13.14 12:29	
1,2-Dichlorobenzene	<0.73	50	53	106	55	110	70-124	4	20	ug/L	01.13.14 12:29	
1,2-Dichloroethane	<0.82	50	54	108	56	112	71-143	4	20	ug/L	01.13.14 12:29	
1,2-Dichloropropane	<0.81	50	51	102	54	108	74-125	6	20	ug/L	01.13.14 12:29	
1,3-Dichlorobenzene	<0.74	50	53	106	56	112	73-123	6	20	ug/L	01.13.14 12:29	
1,4-Dichlorobenzene	<0.59	50	52	104	54	108	74-116	4	20	ug/L	01.13.14 12:29	
2-Butanone (MEK)	<1.3	100	130	130	150	150	43-155	14	20	ug/L	01.13.14 12:29	
2-Hexanone	<2.5	100	130	130	140	140	52-148	7	20	ug/L	01.13.14 12:29	
4-Methyl-2-pentanone (MIBK)	<2.2	100	130	130	140	140	61-141	7	20	ug/L	01.13.14 12:29	
Acetone	<1.4	100	130	130	100	100	40-140	26	20	ug/L	01.13.14 12:29	F
Benzene	<0.67	50	50	100	53	106	78-117	6	20	ug/L	01.13.14 12:29	
Bromochloromethane	<0.47	50	58	116	59	118	65-127	2	20	ug/L	01.13.14 12:29	
Bromodichloromethane	<0.96	50	56	112	58	116	71-133	4	20	ug/L	01.13.14 12:29	
Bromoform	<1.4	50	52	104	55	110	55-129	6	20	ug/L	01.13.14 12:29	
Bromomethane	<2.7	50	56	112	60	120	49-157	7	20	ug/L	01.13.14 12:29	
Carbon disulfide	<0.73	50	58	116	61	122	31-142	5	20	ug/L	01.13.14 12:29	
Carbon tetrachloride	<0.89	50	61	122	64	128	63-152	5	20	ug/L	01.13.14 12:29	
Chlorobenzene	<0.59	50	53	106	54	108	75-117	2	20	ug/L	01.13.14 12:29	
Chloroethane	<0.23	50	55	110	59	118	49-147	7	20	ug/L	01.13.14 12:29	
Chloroform	<1.4	50	53	106	54	108	67-136	2	20	ug/L	01.13.14 12:29	
Chloromethane	<1.2	50	50	100	54	108	35-162	8	20	ug/L	01.13.14 12:29	
cis-1,2-Dichloroethene	<0.80	50	52	104	55	110	64-132	6	20	ug/L	01.13.14 12:29	
cis-1,3-Dichloropropene	<0.76	50	52	104	55	110	69-116	6	20	ug/L	01.13.14 12:29	
Cyclohexane	<0.99	50	53	106	54	108	59-141	2	20	ug/L	01.13.14 12:29	
Dibromochloromethane	<0.79	50	52	104	54	108	54-144	4	20	ug/L	01.13.14 12:29	
Dichlorodifluoromethane	<0.73	50	52	104	51	102	26-171	2	20	ug/L	01.13.14 12:29	
Ethylbenzene	<0.66	50	53	106	55	110	74-131	4	20	ug/L	01.13.14 12:29	
Isopropylbenzene	<1.0	50	52	104	54	108	63-133	4	20	ug/L	01.13.14 12:29	
m,p-Xylenes	<1.2	100	110	110	110	110	67-134	0	20	ug/L	01.13.14 12:29	
Methyl acetate	<0.15	50	56	112	38	76	65-135	38	20	ug/L	01.13.14 12:29	F
Methyl tert-butyl ether	<0.62	100	110	110	87	87	51-156	23	20	ug/L	01.13.14 12:29	F
Methylcyclohexane	<0.76	50	53	106	54	108	62-123	2	20	ug/L	01.13.14 12:29	
Methylene chloride	<0.92	50	56	112	55	110	52-165	2	20	ug/L	01.13.14 12:29	
Naphthalene	<4.0	50	64	128	66	132	31-151	3	20	ug/L	01.13.14 12:29	
o-Xylene	<0.57	50	54	108	55	110	70-125	2	20	ug/L	01.13.14 12:29	
Styrene	<0.56	50	56	112	57	114	42-145	2	20	ug/L	01.13.14 12:29	
Tetrachloroethene	<1.8	50	51	102	52	104	57-132	2	20	ug/L	01.13.14 12:29	
Toluene	<0.68	50	51	102	53	106	76-119	4	20	ug/L	01.13.14 12:29	
trans-1,2-Dichloroethene	<0.73	50	55	110	45	90	46-152	20	20	ug/L	01.13.14 12:29	
trans-1,3-Dichloropropene	<0.84	50	55	110	59	118	60-132	7	20	ug/L	01.13.14 12:29	
Trichloroethene	<0.72	50	54	108	56	112	77-120	4	20	ug/L	01.13.14 12:29	
Trichlorofluoromethane	<0.85	50	57	114	57	114	47-165	0	20	ug/L	01.13.14 12:29	
Vinyl chloride	<0.15	50	52	104	55	110	43-148	6	20	ug/L	01.13.14 12:29	

**Atlanta Environmental Management**  
Aramark - Dekalb (Dekalb Ave)

**Analytical Method:** VOCs by SW-846 8260B

Seq Number: 931887

Parent Sample Id: 477183-024

Matrix: Ground Water

MS Sample Id: 477183-024 S

Prep Method: SW5030B

Date Prep: 01.13.14

MSD Sample Id: 477183-024 SD

**Surrogate**

1,2-Dichloroethane-D4

4-Bromofluorobenzene

Toluene-D8

MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
102		98		53-159	%	01.13.14 12:29
96		96		30-186	%	01.13.14 12:29
98		98		70-130	%	01.13.14 12:29

## Atlanta Environmental Management Aramark - Dekalb (Dekalb Ave)

**Analytical Method:** VOCs by SW-846 8260B

Seq Number: 932045

Parent Sample Id: 477297-001

Matrix: Ground Water

MS Sample Id: 477297-001 S

Prep Method: SW5030B

Date Prep: 01.15.14

MSD Sample Id: 477297-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.34	50	43	86	35	70	63-149	21	20	ug/L	01.15.14 17:06	F
1,1,2,2-Tetrachloroethane	<2.0	50	49	98	44	88	58-140	11	20	ug/L	01.15.14 17:06	
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.97	50	44	88	41	82	42-156	7	20	ug/L	01.15.14 17:06	
1,1,2-Trichloroethane	<0.88	50	47	94	39	78	49-140	19	20	ug/L	01.15.14 17:06	
1,1-Dichloroethane	<0.74	50	44	88	35	70	67-136	23	20	ug/L	01.15.14 17:06	F
1,1-Dichloroethene	<0.98	50	42	84	35	70	52-141	18	20	ug/L	01.15.14 17:06	
1,2,3-Trichlorobenzene	<2.6	50	39	78	34	68	50-131	14	20	ug/L	01.15.14 17:06	
1,2,4-Trichlorobenzene	<1.3	50	37	74	31	62	51-125	18	20	ug/L	01.15.14 17:06	
1,2-Dibromo-3-chloropropane (DBCP)	<2.8	50	45	90	44	88	43-155	2	20	ug/L	01.15.14 17:06	
1,2-Dibromoethane (EDB)	<0.79	50	47	94	40	80	66-136	16	20	ug/L	01.15.14 17:06	
1,2-Dichlorobenzene	<0.73	50	43	86	35	70	70-124	21	20	ug/L	01.15.14 17:06	F
1,2-Dichloroethane	<0.82	50	46	92	37	74	71-143	22	20	ug/L	01.15.14 17:06	F
1,2-Dichloropropane	<0.81	50	45	90	35	70	74-125	25	20	ug/L	01.15.14 17:06	XF
1,3-Dichlorobenzene	<0.74	50	42	84	34	68	73-123	21	20	ug/L	01.15.14 17:06	XF
1,4-Dichlorobenzene	<0.59	50	42	84	34	68	74-116	21	20	ug/L	01.15.14 17:06	XF
2-Butanone (MEK)	<1.3	100	100	100	94	94	43-155	6	20	ug/L	01.15.14 17:06	
2-Hexanone	<2.5	100	100	100	95	95	52-148	5	20	ug/L	01.15.14 17:06	
4-Methyl-2-pentanone (MIBK)	<2.2	100	100	100	93	93	61-141	7	20	ug/L	01.15.14 17:06	
Acetone	<1.4	100	100	100	97	97	40-140	3	20	ug/L	01.15.14 17:06	
Benzene	<0.67	50	43	86	35	70	78-117	21	20	ug/L	01.15.14 17:06	XF
Bromochloromethane	<0.47	50	46	92	37	74	65-127	22	20	ug/L	01.15.14 17:06	F
Bromodichloromethane	<0.96	50	45	90	36	72	71-133	22	20	ug/L	01.15.14 17:06	F
Bromoform	<1.4	50	48	96	42	84	55-129	13	20	ug/L	01.15.14 17:06	
Bromomethane	<2.7	50	47	94	36	72	49-157	27	20	ug/L	01.15.14 17:06	F
Carbon disulfide	<0.73	50	41	82	33	66	31-142	22	20	ug/L	01.15.14 17:06	F
Carbon tetrachloride	<0.89	50	41	82	33	66	63-152	22	20	ug/L	01.15.14 17:06	F
Chlorobenzene	<0.59	50	42	84	34	68	75-117	21	20	ug/L	01.15.14 17:06	XF
Chloroethane	<0.23	50	45	90	36	72	49-147	22	20	ug/L	01.15.14 17:06	F
Chloroform	<1.4	50	45	90	36	72	67-136	22	20	ug/L	01.15.14 17:06	F
Chloromethane	<1.2	50	40	80	35	70	35-162	13	20	ug/L	01.15.14 17:06	
cis-1,2-Dichloroethene	<0.80	50	45	90	35	70	64-132	25	20	ug/L	01.15.14 17:06	F
cis-1,3-Dichloropropene	<0.76	50	46	92	36	72	69-116	24	20	ug/L	01.15.14 17:06	F
Cyclohexane	<0.99	50	34	68	31	62	59-141	9	20	ug/L	01.15.14 17:06	X
Dibromochloromethane	<0.79	50	46	92	37	74	54-144	22	20	ug/L	01.15.14 17:06	F
Dichlorodifluoromethane	<0.73	50	44	88	38	76	26-171	15	20	ug/L	01.15.14 17:06	
Ethylbenzene	<0.66	50	41	82	33	66	74-131	22	20	ug/L	01.15.14 17:06	XF
Isopropylbenzene	<1.0	50	40	80	33	66	63-133	19	20	ug/L	01.15.14 17:06	X
m,p-Xylenes	<1.2	100	82	82	67	67	67-134	20	20	ug/L	01.15.14 17:06	X
Methyl acetate	<0.15	50	48	96	43	86	65-135	11	20	ug/L	01.15.14 17:06	
Methyl tert-butyl ether	<0.62	100	97	97	80	80	51-156	19	20	ug/L	01.15.14 17:06	
Methylcyclohexane	<0.76	50	39	78	38	76	62-123	3	20	ug/L	01.15.14 17:06	
Methylene chloride	<0.92	50	44	88	35	70	52-165	23	20	ug/L	01.15.14 17:06	F
Naphthalene	<4.0	50	38	76	36	72	31-151	5	20	ug/L	01.15.14 17:06	
o-Xylene	<0.57	50	41	82	33	66	70-125	22	20	ug/L	01.15.14 17:06	XF
Styrene	<0.56	50	42	84	34	68	42-145	21	20	ug/L	01.15.14 17:06	F
Tetrachloroethene	<1.8	50	41	82	34	68	57-132	19	20	ug/L	01.15.14 17:06	
Toluene	<0.68	50	42	84	33	66	76-119	24	20	ug/L	01.15.14 17:06	XF
trans-1,2-Dichloroethene	<0.73	50	43	86	35	70	46-152	21	20	ug/L	01.15.14 17:06	F
trans-1,3-Dichloropropene	<0.84	50	45	90	37	74	60-132	20	20	ug/L	01.15.14 17:06	
Trichloroethene	<0.72	50	42	84	34	68	77-120	21	20	ug/L	01.15.14 17:06	XF
Trichlorofluoromethane	<0.85	50	43	86	37	74	47-165	15	20	ug/L	01.15.14 17:06	
Vinyl chloride	<0.15	50	42	84	36	72	43-148	15	20	ug/L	01.15.14 17:06	

**Atlanta Environmental Management**  
Aramark - Dekalb (Dekalb Ave)

**Analytical Method:** VOCs by SW-846 8260B

Seq Number: 932045

Parent Sample Id: 477297-001

Matrix: Ground Water

MS Sample Id: 477297-001 S

Prep Method: SW5030B

Date Prep: 01.15.14

MSD Sample Id: 477297-001 SD

**Surrogate**

1,2-Dichloroethane-D4

4-Bromofluorobenzene

Toluene-D8

MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
102		106		53-159	%	01.15.14 17:06
102		106		30-186	%	01.15.14 17:06
98		100		70-130	%	01.15.14 17:06





6017 Financial Drive, Norcross, GA 30071

Phone # (770) 449-8800 Fax # (770) 449-5477

## CHAIN OF CUSTODY

Company Name: Atlanta Environmental Management

Billing address: 2580 Northeast Expressway, Atlanta, GA 30345

Address: 2580 Northeast Expressway, Atlanta, GA 30345

P.O.# (if required):

Results Sent to: (Client Contact): **Hard Copy (Mail) to Leona Miles**

**For Laboratory Use Only:**

AAL LIMS System ID: 8672

Email address: **EDD to [leona-miles@aem-net.com](mailto:leona-miles@aem-net.com)**

OC Level: 1 2 3 4 CLP-Like

Receiver's Initials/Temp: 3.7°C. / 14

Contact Phone #: 404-329-9006

Fax #: 404-329-2057

Custody Seal(s):            Y   N   Tape

AAL Work Order # 477225

Project (Site) Name: ARAMARK DeKalb

### Analysis Requested

Project Number: 1133-1401-3

**Preservation Code:** (See below)

Sampler(s): (signature)						Sampler(s): (printed)		VOCs 8260B													XENCO Lab ID:
Line No.	Sample ID #	Sample Date / Time	Composite	Grab	Matrix (See below)	Sample Location	No. of Containers														
1	MW-401	1/9/14, 1401		X	GW	670 DeKalb Ave	2	X												-	
2	MW-405	1/9/14 1520		X	GW	670 DeKalb Ave	2	X												-	
3	MW-210	1/9/14, 1530		X	GW	690 DeKalb Ave	2	X												-	
4	MW-211	1/9/14, 1700		X	GW	690 DeKalb Ave	2	X												-	
5	MW-208P	1/9/14, 1633		X	GW	670 DeKalb Ave	2	X												-	
6	MW-202	1/10/14, 1049		X	GW	670 DeKalb Ave	2	V												-	
7	MW-110	1/10/14, 1110		X	GW	690 DeKalb Ave	2	X												-	
8	MW-111	1/10/14, 1225		X	GW	670 DeKalb Ave	2	X												-	
9	MW-409	1/10/14, 1428		X	GW	670 DeKalb Ave	2	X												-	
10	MW-409D	1/10/14 1300		X	GW	670 DeKalb Ave	2	X												-	

1) Relinquished By: Tony J Gordon

3) Relinquished By:

Date / Time: 1/10/14 17:20

Date / Time:

2) Received By: [Signature]

4) Received By:

Date / Time: 01/10/14 17:20

Date / Time:

Delivered by: (Circle One)  
Fed Ex / UPS / DHL / AAL Pickup / Hand / Other

Turnaround Time Requested:  
Standard      3.7°C.

**Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)**

**Preservation Codes:** 1 = HCL / 2 = HNO<sub>3</sub> / 3 = H<sub>2</sub>SO<sub>4</sub> / 4 = NaOH + NaAsO<sub>2</sub> / 5 = NaOH + ZnAc / 6 = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> / 7 = NaHSO<sub>4</sub> / 8 = MeOH



## CHAIN OF CUSTODY

Company Name: Atlanta Environmental Management

Billing address: 2580 Northeast Expressway, Atlanta, GA 30345

Address: 2580 Northeast Expressway, Atlanta, GA 30345

P.O.# (if required):

Results Sent to: (Client Contact): Hard Copy (Mail) to Leona Miles

For Laboratory Use Only:

AAL LIMS System ID: 8472

Email address: EDD to leona-miles@aem-net.com

QC Level: 1 2 3 4 CLP-Like

Receiver's Initials/Temp: 3.7°C

Contact Phone #: 404-329-9006

Fax #: 404-329-2057

Custody Seal(s): Y N Tape

AAL Work Order # 477225

Project (Site) Name: ARAMARK DeKalb

Analysis Requested

Project Number: 1133-1401-3

Preservation Code: (See below)

1

Sampler(s): (signature)		Sampler(s): (printed)												XENCO Lab ID:					
Line No.	Sample ID #	Sample Date / Time	Composite	Grab	Matrix (See below)	Sample Location	No. of Containers	VOCs 8260B											
1	mw-214	1/10/14, 1525		X	GW	670 Dekalb Ave	2	X											
2	mw-204	1/10/14, 1608		X	GW	" " "	2	X											
3	Trip Blank	QA/QC		X	W	—	2	X											
4																			
5																			
6																			
7																			
8																			
9																			
10																			

1) Relinquished By: Tony J Gordon	Date / Time: 1/10/14, 17:16	2) Received By: [Signature]	Date / Time: 01/10/14 17:20	Delivered by: (Circle One) Fed Ex / UPS / DHL / AAL Pickup / <u>Hand</u> / Other
3) Relinquished By:	Date / Time:	4) Received By:	Date / Time:	Turnaround Time Requested: standard 3.7°C

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)

Preservation Codes: 1 = HCL / 2 = HNO<sub>3</sub> / 3 = H<sub>2</sub>SO<sub>4</sub> / 4 = NaOH + NaAsO<sub>2</sub> / 5 = NaOH + ZnAc / 6 = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> / 7 = NaHSO<sub>4</sub> / 8 = MeOH

**CUSTODY SEAL** **QEC**

DATE 8/10/14

SIGNATURE Car 2000

Quality Environmental Containers  
800-255-3950 • 304-255-3900

**Client:** Atlanta Environmental Management

**Date/ Time Received:** 01/10/2014 05:20:00 PM

**Work Order #:** 477225

**Acceptable Temperature Range:** 0 - 6 degC

**Air and Metal samples Acceptable Range:** Ambient

**Temperature Measuring device used :** #61

### Sample Receipt Checklist

### Comments

#1 *Temperature of cooler(s)?	3.7
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	N/A
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	N/A

**\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

**Checklist completed by:**



Dario Lagunas

Date: 01/11/2014

**Checklist reviewed by:**



Eben Buchanan

Date: 01/13/2014

**Analytical Report 477297**  
**for**  
**Atlanta Environmental Management**

**Project Manager: Leona Miles**

**Aramark - Dekalb**

**1133-1401-3**

**17-JAN-14**

Collected By: Client



**6017 Financial Dr., Norcross, GA 30071**  
**Ph:(770) 449-8800 Fax:(770) 449-5477**

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-13-15-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

17-JAN-14

Project Manager: **Leona Miles**  
**Atlanta Environmental Management**  
2580 Northeast Expressway  
Atlanta, GA 30345

Reference: XENCO Report No(s): **477297**  
**Aramark - Dekalb**  
Project Address: GA

**Leona Miles:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 477297. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 477297 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,



---

**Eben Buchanan**  
Project Manager

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***  
*Certified and approved by numerous States and Agencies.*  
*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

**Atlanta Environmental Management, Atlanta, GA**

Aramark - Dekalb

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-402	W	01-13-14 11:15		477297-001
MW-109	W	01-13-14 13:10		477297-002
MW-212	W	01-13-14 13:22		477297-003
MW-213	W	01-13-14 11:20		477297-004
MW-213 Dup	W	01-13-14 11:20		477297-005
MW-403	W	01-13-14 14:35		477297-006
Trip Blank	W	01-13-14 00:00		477297-007

**Client Name:** Atlanta Environmental Management

**Project Name:** Aramark - Dekalb

Project ID: 1133-1401-3  
Work Order Number(s): 477297

Report Date: 17-JAN-14  
Date Received: 01/14/2014

---

## Sample receipt non conformance and comments:

---

### Sample receipt non conformance and comments per sample:

None

#### Analytical non conformance and comments:

Batch: LBA-932045 VOCs by SW-846 8260B

1,2,4-Trichlorobenzene, 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Benzene, Bromodichloromethane, Chlorobenzene, Cyclohexane, Ethylbenzene, Isopropylbenzene, Toluene, Trichloroethene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 477297-001.

The Laboratory Control Sample for 1,2-Dichloropropane, 1,3-Dichlorobenzene, Bromodichloromethane, Isopropylbenzene, Toluene, Trichloroethene, 1,4-Dichlorobenzene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene, 1,2,4-Trichlorobenzene, Chlorobenzene, Cyclohexane is within laboratory Control Limits

1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,2-Dichlorobenzene, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Benzene, Bromochloromethane, Bromodichloromethane, Bromomethane, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Dibromochloromethane, Ethylbenzene, Methylene chloride, Styrene, Toluene, Trichloroethene, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, o-Xylene, trans-1,2-Dichloroethene MS/MSD RPD was outside QC limits.

Samples affected are: 477297-001.



## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id : **MW-212**  
Lab Sample Id : 477297-003

Matrix : Ground Water  
Date Collected : 01.13.14 13.22  
Date Received : 01.14.14 16.55

% Moisture :

Analytical Method : VOCs by SW-846 8260B  
Seq Number 932045

Prep Method: SW5030B  
Date Prep: 01.15.14 06.39

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
2-Butanone (MEK)	78-93-3	71	ug/L	01.15.14 12.27		1
Acetone	67-64-1	280	ug/L	01.15.14 12.27		1
cis-1,2-Dichloroethene	156-59-2	61	ug/L	01.15.14 12.27		1
Tetrachloroethene	127-18-4	110	ug/L	01.15.14 12.27		1
Trichloroethene	79-01-6	17	ug/L	01.15.14 12.27		1
Vinyl chloride	75-01-4	4.8	ug/L	01.15.14 12.27		1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id : **MW-213**  
Lab Sample Id : 477297-004

Matrix : Ground Water  
Date Collected : 01.13.14 11.20  
Date Received : 01.14.14 16.55

% Moisture :

Analytical Method : VOCs by SW-846 8260B  
Seq Number 932045

Prep Method: SW5030B  
Date Prep: 01.15.14 06.39

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
cis-1,2-Dichloroethene	156-59-2	1000	ug/L	01.15.14 13.53	D	10
Tetrachloroethene	127-18-4	100	ug/L	01.15.14 12.55		1
trans-1,2-Dichloroethene	156-60-5	7.0	ug/L	01.15.14 12.55		1
Trichloroethene	79-01-6	49	ug/L	01.15.14 12.55		1
Vinyl chloride	75-01-4	6.4	ug/L	01.15.14 12.55		1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id : **MW-213 Dup**

Matrix : Ground Water

% Moisture :

Lab Sample Id : 477297-005

Date Collected : 01.13.14 11.20

Date Received : 01.14.14 16.55

Analytical Method : VOCs by SW-846 8260B

Prep Method: SW5030B

Seq Number 932045

Date Prep: 01.15.14 06.39

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
cis-1,2-Dichloroethene	156-59-2	930	ug/L	01.15.14 14.23	D	10
Tetrachloroethene	127-18-4	88	ug/L	01.15.14 13.23		1
trans-1,2-Dichloroethene	156-60-5	6.5	ug/L	01.15.14 13.23		1
Trichloroethene	79-01-6	43	ug/L	01.15.14 13.23		1
Vinyl chloride	75-01-4	5.4	ug/L	01.15.14 13.23		1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id : **MW-403**  
Lab Sample Id : 477297-006

Matrix : Ground Water  
Date Collected : 01.13.14 14.35  
Date Received : 01.14.14 16.55

% Moisture :

Analytical Method : VOCs by SW-846 8260B  
Seq Number 932045

Prep Method: SW5030B  
Date Prep: 01.15.14 06.39

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
cis-1,2-Dichloroethene	156-59-2	24	ug/L	01.15.14 11.33		1
Vinyl chloride	75-01-4	80	ug/L	01.15.14 11.33		1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id: **MW-402**  
Lab Sample Id: 477297-001

Matrix: Ground Water  
Date Collected: 01.13.14 11.15

Date Received: 01.14.14 16.55

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: MLA

Date Prep: 01.15.14 06.39

Seq Number: 932045

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.15.14 10.39	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.15.14 10.39	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.15.14 10.39	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.15.14 10.39	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.15.14 10.39	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.15.14 10.39	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.15.14 10.39	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.15.14 10.39	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.15.14 10.39	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.15.14 10.39	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.15.14 10.39	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.15.14 10.39	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.15.14 10.39	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.15.14 10.39	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.15.14 10.39	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	01.15.14 10.39	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	01.15.14 10.39	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.15.14 10.39	U	1
Acetone	67-64-1	BRL	50	ug/L	01.15.14 10.39	U	1
Benzene	71-43-2	BRL	5.0	ug/L	01.15.14 10.39	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.15.14 10.39	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.15.14 10.39	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.15.14 10.39	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.15.14 10.39	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.15.14 10.39	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.15.14 10.39	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.15.14 10.39	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.15.14 10.39	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.15.14 10.39	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.15.14 10.39	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	5.0	ug/L	01.15.14 10.39	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.15.14 10.39	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.15.14 10.39	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.15.14 10.39	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.15.14 10.39	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.15.14 10.39	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.15.14 10.39	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.15.14 10.39	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.15.14 10.39	U	1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id: **MW-402**  
Lab Sample Id: 477297-001

Matrix: Ground Water  
Date Collected: 01.13.14 11.15

Date Received: 01.14.14 16.55

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: MLA

Date Prep: 01.15.14 06.39

Seq Number: 932045

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.15.14 10.39	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.15.14 10.39	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.15.14 10.39	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.15.14 10.39	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.15.14 10.39	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.15.14 10.39	U	1
Tetrachloroethene	127-18-4	BRL	5.0	ug/L	01.15.14 10.39	U	1
Toluene	108-88-3	BRL	5.0	ug/L	01.15.14 10.39	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	01.15.14 10.39	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.15.14 10.39	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	01.15.14 10.39	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.15.14 10.39	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	01.15.14 10.39	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	104	%	53-159	01.15.14 10.39		
4-Bromofluorobenzene	460-00-4	104	%	30-186	01.15.14 10.39		
Toluene-D8	2037-26-5	100	%	70-130	01.15.14 10.39		

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id: **MW-109**  
Lab Sample Id: 477297-002

Matrix: Ground Water  
Date Collected: 01.13.14 13.10

Date Received: 01.14.14 16.55

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: MLA

Date Prep: 01.15.14 06.39

Seq Number: 932045

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.15.14 11.05	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.15.14 11.05	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.15.14 11.05	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.15.14 11.05	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.15.14 11.05	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.15.14 11.05	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.15.14 11.05	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.15.14 11.05	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.15.14 11.05	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.15.14 11.05	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.15.14 11.05	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.15.14 11.05	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.15.14 11.05	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.15.14 11.05	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.15.14 11.05	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	01.15.14 11.05	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	01.15.14 11.05	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.15.14 11.05	U	1
Acetone	67-64-1	BRL	50	ug/L	01.15.14 11.05	U	1
Benzene	71-43-2	BRL	5.0	ug/L	01.15.14 11.05	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.15.14 11.05	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.15.14 11.05	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.15.14 11.05	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.15.14 11.05	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.15.14 11.05	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.15.14 11.05	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.15.14 11.05	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.15.14 11.05	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.15.14 11.05	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.15.14 11.05	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	5.0	ug/L	01.15.14 11.05	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.15.14 11.05	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.15.14 11.05	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.15.14 11.05	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.15.14 11.05	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.15.14 11.05	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.15.14 11.05	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.15.14 11.05	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.15.14 11.05	U	1

# Certificate of Analytical Results 477297

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id: **MW-109**  
Lab Sample Id: 477297-002

Matrix: Ground Water  
Date Collected: 01.13.14 13.10

Date Received: 01.14.14 16.55

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: MLA

Date Prep: 01.15.14 06.39

Seq Number: 932045

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.15.14 11.05	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.15.14 11.05	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.15.14 11.05	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.15.14 11.05	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.15.14 11.05	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.15.14 11.05	U	1
Tetrachloroethene	127-18-4	BRL	5.0	ug/L	01.15.14 11.05	U	1
Toluene	108-88-3	BRL	5.0	ug/L	01.15.14 11.05	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	01.15.14 11.05	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.15.14 11.05	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	01.15.14 11.05	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.15.14 11.05	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	01.15.14 11.05	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	102	%	53-159	01.15.14 11.05		
4-Bromofluorobenzene	460-00-4	104	%	30-186	01.15.14 11.05		
Toluene-D8	2037-26-5	98	%	70-130	01.15.14 11.05		



## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id: **MW-212**  
Lab Sample Id: 477297-003

Matrix: Ground Water  
Date Collected: 01.13.14 13.22

Date Received: 01.14.14 16.55

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: MLA

Date Prep: 01.15.14 06.39

Seq Number: 932045

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.15.14 12.27	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.15.14 12.27	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.15.14 12.27	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.15.14 12.27	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.15.14 12.27	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.15.14 12.27	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.15.14 12.27	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.15.14 12.27	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.15.14 12.27	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.15.14 12.27	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.15.14 12.27	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.15.14 12.27	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.15.14 12.27	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.15.14 12.27	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.15.14 12.27	U	1
<b>2-Butanone (MEK)</b>	78-93-3	<b>71</b>	50	ug/L	01.15.14 12.27		1
2-Hexanone	591-78-6	BRL	50	ug/L	01.15.14 12.27	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.15.14 12.27	U	1
<b>Acetone</b>	67-64-1	<b>280</b>	50	ug/L	01.15.14 12.27		1
Benzene	71-43-2	BRL	5.0	ug/L	01.15.14 12.27	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.15.14 12.27	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.15.14 12.27	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.15.14 12.27	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.15.14 12.27	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.15.14 12.27	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.15.14 12.27	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.15.14 12.27	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.15.14 12.27	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.15.14 12.27	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.15.14 12.27	U	1
<b>cis-1,2-Dichloroethene</b>	156-59-2	<b>61</b>	5.0	ug/L	01.15.14 12.27		1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.15.14 12.27	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.15.14 12.27	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.15.14 12.27	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.15.14 12.27	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.15.14 12.27	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.15.14 12.27	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.15.14 12.27	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.15.14 12.27	U	1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id: **MW-212**  
Lab Sample Id: 477297-003

Matrix: Ground Water  
Date Collected: 01.13.14 13.22

Date Received: 01.14.14 16.55

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: MLA

Date Prep: 01.15.14 06.39

Seq Number: 932045

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.15.14 12.27	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.15.14 12.27	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.15.14 12.27	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.15.14 12.27	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.15.14 12.27	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.15.14 12.27	U	1
<b>Tetrachloroethene</b>	127-18-4	<b>110</b>	5.0	ug/L	01.15.14 12.27		1
Toluene	108-88-3	BRL	5.0	ug/L	01.15.14 12.27	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	01.15.14 12.27	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.15.14 12.27	U	1
<b>Trichloroethene</b>	79-01-6	<b>17</b>	5.0	ug/L	01.15.14 12.27		1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.15.14 12.27	U	1
<b>Vinyl chloride</b>	75-01-4	<b>4.8</b>	2.0	ug/L	01.15.14 12.27		1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	100	%	53-159	01.15.14 12.27		
4-Bromofluorobenzene	460-00-4	100	%	30-186	01.15.14 12.27		
Toluene-D8	2037-26-5	102	%	70-130	01.15.14 12.27		

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id: **MW-213**  
Lab Sample Id: 477297-004

Matrix: Ground Water  
Date Collected: 01.13.14 11.20

Date Received: 01.14.14 16.55

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: MLA

Date Prep: 01.15.14 06.39

Seq Number: 932045

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.15.14 12.55	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.15.14 12.55	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.15.14 12.55	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.15.14 12.55	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.15.14 12.55	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.15.14 12.55	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.15.14 12.55	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.15.14 12.55	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.15.14 12.55	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.15.14 12.55	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.15.14 12.55	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.15.14 12.55	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.15.14 12.55	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.15.14 12.55	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.15.14 12.55	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	01.15.14 12.55	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	01.15.14 12.55	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.15.14 12.55	U	1
Acetone	67-64-1	BRL	50	ug/L	01.15.14 12.55	U	1
Benzene	71-43-2	BRL	5.0	ug/L	01.15.14 12.55	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.15.14 12.55	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.15.14 12.55	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.15.14 12.55	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.15.14 12.55	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.15.14 12.55	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.15.14 12.55	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.15.14 12.55	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.15.14 12.55	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.15.14 12.55	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.15.14 12.55	U	1
<b>cis-1,2-Dichloroethene</b>	156-59-2	<b>1000</b>	50	ug/L	01.15.14 13.53	D	10
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.15.14 12.55	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.15.14 12.55	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.15.14 12.55	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.15.14 12.55	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.15.14 12.55	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.15.14 12.55	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.15.14 12.55	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.15.14 12.55	U	1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id: **MW-213**  
Lab Sample Id: 477297-004

Matrix: Ground Water  
Date Collected: 01.13.14 11.20

Date Received: 01.14.14 16.55

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: MLA

Date Prep: 01.15.14 06.39

Seq Number: 932045

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.15.14 12.55	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.15.14 12.55	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.15.14 12.55	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.15.14 12.55	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.15.14 12.55	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.15.14 12.55	U	1
<b>Tetrachloroethene</b>	127-18-4	<b>100</b>	5.0	ug/L	01.15.14 12.55		1
Toluene	108-88-3	BRL	5.0	ug/L	01.15.14 12.55	U	1
<b>trans-1,2-Dichloroethene</b>	156-60-5	<b>7.0</b>	5.0	ug/L	01.15.14 12.55		1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.15.14 12.55	U	1
<b>Trichloroethene</b>	79-01-6	<b>49</b>	5.0	ug/L	01.15.14 12.55		1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.15.14 12.55	U	1
<b>Vinyl chloride</b>	75-01-4	<b>6.4</b>	2.0	ug/L	01.15.14 12.55		1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	104	%	53-159	01.15.14 12.55		
4-Bromofluorobenzene	460-00-4	102	%	30-186	01.15.14 12.55		
Toluene-D8	2037-26-5	100	%	70-130	01.15.14 12.55		

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id: **MW-213 Dup**

Matrix: Ground Water

Date Received: 01.14.14 16.55

Lab Sample Id: 477297-005

Date Collected: 01.13.14 11.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: MLA

Date Prep: 01.15.14 06.39

Seq Number: 932045

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.15.14 13.23	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.15.14 13.23	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.15.14 13.23	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.15.14 13.23	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.15.14 13.23	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.15.14 13.23	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.15.14 13.23	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.15.14 13.23	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.15.14 13.23	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.15.14 13.23	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.15.14 13.23	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.15.14 13.23	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.15.14 13.23	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.15.14 13.23	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.15.14 13.23	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	01.15.14 13.23	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	01.15.14 13.23	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.15.14 13.23	U	1
Acetone	67-64-1	BRL	50	ug/L	01.15.14 13.23	U	1
Benzene	71-43-2	BRL	5.0	ug/L	01.15.14 13.23	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.15.14 13.23	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.15.14 13.23	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.15.14 13.23	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.15.14 13.23	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.15.14 13.23	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.15.14 13.23	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.15.14 13.23	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.15.14 13.23	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.15.14 13.23	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.15.14 13.23	U	1
<b>cis-1,2-Dichloroethene</b>	156-59-2	<b>930</b>	50	ug/L	01.15.14 14.23	D	10
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.15.14 13.23	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.15.14 13.23	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.15.14 13.23	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.15.14 13.23	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.15.14 13.23	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.15.14 13.23	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.15.14 13.23	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.15.14 13.23	U	1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id: **MW-213 Dup**

Matrix: Ground Water

Date Received: 01.14.14 16.55

Lab Sample Id: 477297-005

Date Collected: 01.13.14 11.20

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: MLA

Date Prep: 01.15.14 06.39

Seq Number: 932045

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.15.14 13.23	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.15.14 13.23	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.15.14 13.23	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.15.14 13.23	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.15.14 13.23	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.15.14 13.23	U	1
<b>Tetrachloroethene</b>	127-18-4	<b>88</b>	5.0	ug/L	01.15.14 13.23		1
Toluene	108-88-3	BRL	5.0	ug/L	01.15.14 13.23	U	1
<b>trans-1,2-Dichloroethene</b>	156-60-5	<b>6.5</b>	5.0	ug/L	01.15.14 13.23		1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.15.14 13.23	U	1
<b>Trichloroethene</b>	79-01-6	<b>43</b>	5.0	ug/L	01.15.14 13.23		1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.15.14 13.23	U	1
<b>Vinyl chloride</b>	75-01-4	<b>5.4</b>	2.0	ug/L	01.15.14 13.23		1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	102	%	53-159	01.15.14 13.23		
4-Bromofluorobenzene	460-00-4	104	%	30-186	01.15.14 13.23		
Toluene-D8	2037-26-5	100	%	70-130	01.15.14 13.23		

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id: **MW-403**  
Lab Sample Id: 477297-006

Matrix: Ground Water  
Date Collected: 01.13.14 14.35

Date Received: 01.14.14 16.55

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: MLA

Date Prep: 01.15.14 06.39

Seq Number: 932045

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.15.14 11.33	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.15.14 11.33	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.15.14 11.33	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.15.14 11.33	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.15.14 11.33	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.15.14 11.33	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.15.14 11.33	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.15.14 11.33	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.15.14 11.33	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.15.14 11.33	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.15.14 11.33	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.15.14 11.33	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.15.14 11.33	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.15.14 11.33	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.15.14 11.33	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	01.15.14 11.33	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	01.15.14 11.33	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.15.14 11.33	U	1
Acetone	67-64-1	BRL	50	ug/L	01.15.14 11.33	U	1
Benzene	71-43-2	BRL	5.0	ug/L	01.15.14 11.33	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.15.14 11.33	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.15.14 11.33	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.15.14 11.33	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.15.14 11.33	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.15.14 11.33	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.15.14 11.33	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.15.14 11.33	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.15.14 11.33	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.15.14 11.33	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.15.14 11.33	U	1
<b>cis-1,2-Dichloroethene</b>	156-59-2	<b>24</b>	5.0	ug/L	01.15.14 11.33		1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.15.14 11.33	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.15.14 11.33	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.15.14 11.33	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.15.14 11.33	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.15.14 11.33	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.15.14 11.33	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.15.14 11.33	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.15.14 11.33	U	1

# Certificate of Analytical Results 477297

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id: **MW-403**  
Lab Sample Id: 477297-006

Matrix: Ground Water  
Date Collected: 01.13.14 14.35

Date Received: 01.14.14 16.55

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: MLA

Date Prep: 01.15.14 06.39

Seq Number: 932045

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.15.14 11.33	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.15.14 11.33	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.15.14 11.33	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.15.14 11.33	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.15.14 11.33	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.15.14 11.33	U	1
Tetrachloroethene	127-18-4	BRL	5.0	ug/L	01.15.14 11.33	U	1
Toluene	108-88-3	BRL	5.0	ug/L	01.15.14 11.33	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	01.15.14 11.33	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.15.14 11.33	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	01.15.14 11.33	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.15.14 11.33	U	1
<b>Vinyl chloride</b>	75-01-4	<b>80</b>	2.0	ug/L	01.15.14 11.33		1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	102	%	53-159	01.15.14 11.33		
4-Bromofluorobenzene	460-00-4	104	%	30-186	01.15.14 11.33		
Toluene-D8	2037-26-5	98	%	70-130	01.15.14 11.33		



## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id: **Trip Blank**

Matrix: Water

Date Received: 01.14.14 16.55

Lab Sample Id: 477297-007

Date Collected: 01.13.14 00.00

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: MLA

Date Prep: 01.15.14 06.39

Seq Number: 932045

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.15.14 10.11	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.15.14 10.11	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.15.14 10.11	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.15.14 10.11	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.15.14 10.11	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.15.14 10.11	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.15.14 10.11	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.15.14 10.11	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.15.14 10.11	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.15.14 10.11	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.15.14 10.11	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.15.14 10.11	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.15.14 10.11	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.15.14 10.11	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.15.14 10.11	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	01.15.14 10.11	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	01.15.14 10.11	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.15.14 10.11	U	1
Acetone	67-64-1	BRL	50	ug/L	01.15.14 10.11	U	1
Benzene	71-43-2	BRL	5.0	ug/L	01.15.14 10.11	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.15.14 10.11	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.15.14 10.11	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.15.14 10.11	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.15.14 10.11	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.15.14 10.11	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.15.14 10.11	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.15.14 10.11	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.15.14 10.11	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.15.14 10.11	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.15.14 10.11	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	5.0	ug/L	01.15.14 10.11	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.15.14 10.11	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.15.14 10.11	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.15.14 10.11	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.15.14 10.11	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.15.14 10.11	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.15.14 10.11	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.15.14 10.11	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.15.14 10.11	U	1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id: **Trip Blank**

Matrix: Water

Date Received: 01.14.14 16.55

Lab Sample Id: 477297-007

Date Collected: 01.13.14 00.00

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: MLA

Date Prep: 01.15.14 06.39

Seq Number: 932045

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.15.14 10.11	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.15.14 10.11	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.15.14 10.11	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.15.14 10.11	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.15.14 10.11	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.15.14 10.11	U	1
Tetrachloroethene	127-18-4	BRL	5.0	ug/L	01.15.14 10.11	U	1
Toluene	108-88-3	BRL	5.0	ug/L	01.15.14 10.11	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	01.15.14 10.11	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.15.14 10.11	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	01.15.14 10.11	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.15.14 10.11	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	01.15.14 10.11	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	104	%	53-159	01.15.14 10.11		
4-Bromofluorobenzene	460-00-4	104	%	30-186	01.15.14 10.11		
Toluene-D8	2037-26-5	100	%	70-130	01.15.14 10.11		

# Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***

*Certified and approved by numerous States and Agencies.*

***A Small Business and Minority Status Company that delivers SERVICE and QUALITY***

Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Phoenix - Latin America

4143 Greenbriar Dr, Stafford, TX 77477  
9701 Harry Hines Blvd , Dallas, TX 75220  
5332 Blackberry Drive, San Antonio TX 78238  
2505 North Falkenburg Rd, Tampa, FL 33619  
12600 West I-20 East, Odessa, TX 79765  
6017 Financial Drive, Norcross, GA 30071  
3725 E. Atlanta Ave, Phoenix, AZ 85040

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Atlanta Environmental Management  
Aramark - Dekalb

Analytical Method: VOCs by SW-846 8260B

Seq Number: 932045

MB Sample Id: 649782-1-BLK

Matrix: Water

LCS Sample Id: 649782-1-BKS

Prep Method: SW5030B

Date Prep: 01.15.14

LCSD Sample Id: 649782-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.34	50	43	86	47	94	56-141	9	20	ug/L	01.15.14 07:55	
1,1,2,2-Tetrachloroethane	<2.0	50	49	98	52	104	64-135	6	20	ug/L	01.15.14 07:55	
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.97	50	42	84	46	92	54-134	9	20	ug/L	01.15.14 07:55	
1,1,2-Trichloroethane	<0.88	50	47	94	51	102	73-123	8	20	ug/L	01.15.14 07:55	
1,1-Dichloroethane	<0.74	50	44	88	49	98	66-126	11	20	ug/L	01.15.14 07:55	
1,1-Dichloroethene	<0.98	50	42	84	47	94	65-129	11	20	ug/L	01.15.14 07:55	
1,2,3-Trichlorobenzene	<2.6	50	45	90	46	92	56-146	2	20	ug/L	01.15.14 07:55	
1,2,4-Trichlorobenzene	1.4	50	42	84	44	88	62-141	5	20	ug/L	01.15.14 07:55	
1,2-Dibromo-3-chloropropane (DBCP)	<2.8	50	48	96	49	98	48-144	2	20	ug/L	01.15.14 07:55	
1,2-Dibromoethane (EDB)	<0.79	50	48	96	52	104	70-130	8	20	ug/L	01.15.14 07:55	
1,2-Dichlorobenzene	<0.73	50	45	90	48	96	77-123	6	20	ug/L	01.15.14 07:55	
1,2-Dichloroethane	<0.82	50	46	92	51	102	57-137	10	20	ug/L	01.15.14 07:55	
1,2-Dichloropropane	<0.81	50	45	90	49	98	74-121	9	20	ug/L	01.15.14 07:55	
1,3-Dichlorobenzene	<0.74	50	44	88	48	96	79-120	9	20	ug/L	01.15.14 07:55	
1,4-Dichlorobenzene	<0.59	50	44	88	48	96	77-119	9	20	ug/L	01.15.14 07:55	
2-Butanone (MEK)	<1.3	100	100	100	110	110	42-165	10	20	ug/L	01.15.14 07:55	
2-Hexanone	<2.5	100	100	100	110	110	46-157	10	20	ug/L	01.15.14 07:55	
4-Methyl-2-pentanone (MIBK)	<2.2	100	100	100	100	100	54-145	0	20	ug/L	01.15.14 07:55	
Acetone	<1.4	100	110	110	110	110	42-178	0	20	ug/L	01.15.14 07:55	
Benzene	<0.67	50	44	88	48	96	76-119	9	20	ug/L	01.15.14 07:55	
Bromochloromethane	<0.47	50	48	96	53	106	75-123	10	20	ug/L	01.15.14 07:55	
Bromodichloromethane	<0.96	50	46	92	50	100	69-131	8	20	ug/L	01.15.14 07:55	
Bromoform	<1.4	50	49	98	53	106	66-130	8	20	ug/L	01.15.14 07:55	
Bromomethane	<2.7	50	41	82	45	90	59-141	9	20	ug/L	01.15.14 07:55	
Carbon disulfide	<0.73	50	43	86	46	92	47-144	7	20	ug/L	01.15.14 07:55	
Carbon tetrachloride	<0.89	50	43	86	47	94	46-155	9	20	ug/L	01.15.14 07:55	
Chlorobenzene	<0.59	50	44	88	48	96	81-114	9	20	ug/L	01.15.14 07:55	
Chloroethane	<0.23	50	40	80	43	86	63-133	7	20	ug/L	01.15.14 07:55	
Chloroform	<1.4	50	45	90	50	100	68-127	11	20	ug/L	01.15.14 07:55	
Chloromethane	<1.2	50	40	80	43	86	43-141	7	20	ug/L	01.15.14 07:55	
cis-1,2-Dichloroethene	<0.80	50	46	92	50	100	73-124	8	20	ug/L	01.15.14 07:55	
cis-1,3-Dichloropropene	<0.76	50	47	94	51	102	72-132	8	20	ug/L	01.15.14 07:55	
Cyclohexane	<0.99	50	41	82	45	90	58-125	9	20	ug/L	01.15.14 07:55	
Dibromochloromethane	<0.79	50	47	94	51	102	69-128	8	20	ug/L	01.15.14 07:55	
Dichlorodifluoromethane	<0.73	50	43	86	47	94	24-153	9	20	ug/L	01.15.14 07:55	
Ethylbenzene	<0.66	50	42	84	46	92	78-122	9	20	ug/L	01.15.14 07:55	
Isopropylbenzene	<1.0	50	42	84	46	92	71-131	9	20	ug/L	01.15.14 07:55	
m,p-Xylenes	<1.2	100	85	85	93	93	76-124	9	20	ug/L	01.15.14 07:55	
Methyl acetate	<0.15	50	53	106	55	110	65-135	4	20	ug/L	01.15.14 07:55	
Methyl tert-butyl ether	<0.62	100	100	100	110	110	59-135	10	20	ug/L	01.15.14 07:55	
Methylcyclohexane	0.79	50	41	82	46	92	61-125	11	20	ug/L	01.15.14 07:55	
Methylene chloride	<0.92	50	46	92	50	100	64-135	8	20	ug/L	01.15.14 07:55	
Naphthalene	<4.0	50	45	90	45	90	46-159	0	20	ug/L	01.15.14 07:55	
o-Xylene	<0.57	50	44	88	47	94	78-124	7	20	ug/L	01.15.14 07:55	
Styrene	<0.56	50	44	88	48	96	79-123	9	20	ug/L	01.15.14 07:55	
Tetrachloroethene	<1.8	50	42	84	45	90	71-125	7	20	ug/L	01.15.14 07:55	
Toluene	<0.68	50	43	86	46	92	78-118	7	20	ug/L	01.15.14 07:55	
trans-1,2-Dichloroethene	<0.73	50	44	88	48	96	71-126	9	20	ug/L	01.15.14 07:55	
trans-1,3-Dichloropropene	<0.84	50	47	94	52	104	68-131	10	20	ug/L	01.15.14 07:55	
Trichloroethene	3.5	50	43	86	48	96	76-118	11	20	ug/L	01.15.14 07:55	
Trichlorofluoromethane	<0.85	50	41	82	45	90	35-153	9	20	ug/L	01.15.14 07:55	
Vinyl chloride	<0.15	50	42	84	45	90	59-129	7	20	ug/L	01.15.14 07:55	

**Atlanta Environmental Management**  
Aramark - Dekalb

**Analytical Method:** VOCs by SW-846 8260B

Seq Number: 932045

MB Sample Id: 649782-1-BLK

Matrix: Water

LCS Sample Id: 649782-1-BKS

Prep Method: SW5030B

Date Prep: 01.15.14

LCSD Sample Id: 649782-1-BSD

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	102		100		102		53-159	%	01.15.14 07:55
4-Bromofluorobenzene	102		102		102		30-186	%	01.15.14 07:55
Toluene-D8	98		96		96		70-130	%	01.15.14 07:55

**Atlanta Environmental Management**  
Aramark - Dekalb

**Analytical Method:** VOCs by SW-846 8260B

Seq Number: 932045

Parent Sample Id: 477297-001

Matrix: Ground Water

MS Sample Id: 477297-001 S

Prep Method: SW5030B

Date Prep: 01.15.14

MSD Sample Id: 477297-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.34	50	43	86	35	70	63-149	21	20	ug/L	01.15.14 17:06	F
1,1,2,2-Tetrachloroethane	<2.0	50	49	98	44	88	58-140	11	20	ug/L	01.15.14 17:06	
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.97	50	44	88	41	82	42-156	7	20	ug/L	01.15.14 17:06	
1,1,2-Trichloroethane	<0.88	50	47	94	39	78	49-140	19	20	ug/L	01.15.14 17:06	
1,1-Dichloroethane	<0.74	50	44	88	35	70	67-136	23	20	ug/L	01.15.14 17:06	F
1,1-Dichloroethene	<0.98	50	42	84	35	70	52-141	18	20	ug/L	01.15.14 17:06	
1,2,3-Trichlorobenzene	<2.6	50	39	78	34	68	50-131	14	20	ug/L	01.15.14 17:06	
1,2,4-Trichlorobenzene	<1.3	50	37	74	31	62	51-125	18	20	ug/L	01.15.14 17:06	
1,2-Dibromo-3-chloropropane (DBCP)	<2.8	50	45	90	44	88	43-155	2	20	ug/L	01.15.14 17:06	
1,2-Dibromoethane (EDB)	<0.79	50	47	94	40	80	66-136	16	20	ug/L	01.15.14 17:06	
1,2-Dichlorobenzene	<0.73	50	43	86	35	70	70-124	21	20	ug/L	01.15.14 17:06	F
1,2-Dichloroethane	<0.82	50	46	92	37	74	71-143	22	20	ug/L	01.15.14 17:06	F
1,2-Dichloropropane	<0.81	50	45	90	35	70	74-125	25	20	ug/L	01.15.14 17:06	XF
1,3-Dichlorobenzene	<0.74	50	42	84	34	68	73-123	21	20	ug/L	01.15.14 17:06	XF
1,4-Dichlorobenzene	<0.59	50	42	84	34	68	74-116	21	20	ug/L	01.15.14 17:06	XF
2-Butanone (MEK)	<1.3	100	100	100	94	94	43-155	6	20	ug/L	01.15.14 17:06	
2-Hexanone	<2.5	100	100	100	95	95	52-148	5	20	ug/L	01.15.14 17:06	
4-Methyl-2-pentanone (MIBK)	<2.2	100	100	100	93	93	61-141	7	20	ug/L	01.15.14 17:06	
Acetone	<1.4	100	100	100	97	97	40-140	3	20	ug/L	01.15.14 17:06	
Benzene	<0.67	50	43	86	35	70	78-117	21	20	ug/L	01.15.14 17:06	XF
Bromochloromethane	<0.47	50	46	92	37	74	65-127	22	20	ug/L	01.15.14 17:06	F
Bromodichloromethane	<0.96	50	45	90	36	72	71-133	22	20	ug/L	01.15.14 17:06	F
Bromoform	<1.4	50	48	96	42	84	55-129	13	20	ug/L	01.15.14 17:06	
Bromomethane	<2.7	50	47	94	36	72	49-157	27	20	ug/L	01.15.14 17:06	F
Carbon disulfide	<0.73	50	41	82	33	66	31-142	22	20	ug/L	01.15.14 17:06	F
Carbon tetrachloride	<0.89	50	41	82	33	66	63-152	22	20	ug/L	01.15.14 17:06	F
Chlorobenzene	<0.59	50	42	84	34	68	75-117	21	20	ug/L	01.15.14 17:06	XF
Chloroethane	<0.23	50	45	90	36	72	49-147	22	20	ug/L	01.15.14 17:06	F
Chloroform	<1.4	50	45	90	36	72	67-136	22	20	ug/L	01.15.14 17:06	F
Chloromethane	<1.2	50	40	80	35	70	35-162	13	20	ug/L	01.15.14 17:06	
cis-1,2-Dichloroethene	<0.80	50	45	90	35	70	64-132	25	20	ug/L	01.15.14 17:06	F
cis-1,3-Dichloropropene	<0.76	50	46	92	36	72	69-116	24	20	ug/L	01.15.14 17:06	F
Cyclohexane	<0.99	50	34	68	31	62	59-141	9	20	ug/L	01.15.14 17:06	X
Dibromochloromethane	<0.79	50	46	92	37	74	54-144	22	20	ug/L	01.15.14 17:06	F
Dichlorodifluoromethane	<0.73	50	44	88	38	76	26-171	15	20	ug/L	01.15.14 17:06	
Ethylbenzene	<0.66	50	41	82	33	66	74-131	22	20	ug/L	01.15.14 17:06	XF
Isopropylbenzene	<1.0	50	40	80	33	66	63-133	19	20	ug/L	01.15.14 17:06	X
m,p-Xylenes	<1.2	100	82	82	67	67	67-134	20	20	ug/L	01.15.14 17:06	X
Methyl acetate	<0.15	50	48	96	43	86	65-135	11	20	ug/L	01.15.14 17:06	
Methyl tert-butyl ether	<0.62	100	97	97	80	80	51-156	19	20	ug/L	01.15.14 17:06	
Methylcyclohexane	<0.76	50	39	78	38	76	62-123	3	20	ug/L	01.15.14 17:06	
Methylene chloride	<0.92	50	44	88	35	70	52-165	23	20	ug/L	01.15.14 17:06	F
Naphthalene	<4.0	50	38	76	36	72	31-151	5	20	ug/L	01.15.14 17:06	
o-Xylene	<0.57	50	41	82	33	66	70-125	22	20	ug/L	01.15.14 17:06	XF
Styrene	<0.56	50	42	84	34	68	42-145	21	20	ug/L	01.15.14 17:06	F
Tetrachloroethene	<1.8	50	41	82	34	68	57-132	19	20	ug/L	01.15.14 17:06	
Toluene	<0.68	50	42	84	33	66	76-119	24	20	ug/L	01.15.14 17:06	XF
trans-1,2-Dichloroethene	<0.73	50	43	86	35	70	46-152	21	20	ug/L	01.15.14 17:06	F
trans-1,3-Dichloropropene	<0.84	50	45	90	37	74	60-132	20	20	ug/L	01.15.14 17:06	
Trichloroethene	<0.72	50	42	84	34	68	77-120	21	20	ug/L	01.15.14 17:06	XF
Trichlorofluoromethane	<0.85	50	43	86	37	74	47-165	15	20	ug/L	01.15.14 17:06	
Vinyl chloride	<0.15	50	42	84	36	72	43-148	15	20	ug/L	01.15.14 17:06	

**Atlanta Environmental Management**  
Aramark - Dekalb

**Analytical Method:** VOCs by SW-846 8260B

Seq Number: 932045

Parent Sample Id: 477297-001

Matrix: Ground Water

MS Sample Id: 477297-001 S

Prep Method: SW5030B

Date Prep: 01.15.14

MSD Sample Id: 477297-001 SD

**Surrogate**

1,2-Dichloroethane-D4

4-Bromofluorobenzene

Toluene-D8

MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
102		106		53-159	%	01.15.14 17:06
102		106		30-186	%	01.15.14 17:06
98		100		70-130	%	01.15.14 17:06



## CHAIN OF CUSTODY

Company Name: Atlanta Environmental Management

Billing address: 2580 Northeast Expressway, Atlanta, GA 30345

Address: 2580 Northeast Expressway, Atlanta, GA 30345

P.O.# (if required):

Results Sent to: (Client Contact): Hard Copy (Mail) to Leona Miles

For Laboratory Use Only:

AAL LIMS System ID: 8072

Email address: EDD to leona-miles@aem-net.com

QC Level: 1 2 3 4 CLP-Like

Receiver's Initials/Temp: 23°C

Contact Phone #: 404-329-9006

Fax #: 404-329-2057

Custody Seal(s): Y N Tape

AAL Work Order # 477297

Project (Site) Name: ARAMARK DeKalb

Analysis Requested

Project Number: 1133-1401-3

Preservation Code: (See below)

Sampler(s): (signature)		Sampler(s): (printed)												XENCO Lab ID:					
Line No.	Sample ID #	Sample Date / Time	Composite	Grab	Matrix (See below)	Sample Location	No. of Containers	VOCs 8260B											
1	MW-402	1/13/14 1115		X	GW	690 DeKalb Ave	2	X											
2	MW-109	1/13/14 1310		X	GW	690 DeKalb Ave	2	X											
3	MW-212	1/13/14 1322		X	GW	670 DeKalb Ave	2	X											
4	MW-213	1/13/14 1120		X	GW	670 DeKalb Ave	2	X											
5	MW-213 Dup	1/13/14 1120		X	GW	670 DeKalb Ave	2	X											
6	MW-403	1/13/14 1435		X	GW	690 DeKalb Ave	2	X											
7	Trp Blank	1/13/14 —		X	W	QA/QC	2	X											
8																			
9																			
10																			

1) Relinquished By: Tony L Gordon	Date / Time: 1/13/14, 16:55	2) Received By: [Signature]	Date / Time: 1/13/14 16:55	Delivered by: (Circle One) Fed Ex / UPS / DHL / AAL Pickup / Hand / Other
3) Relinquished By:	Date / Time:	4) Received By:	Date / Time: 16:55	Turnaround Time Requested: Standard

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)

Preservation Codes: 1 = HCL / 2 = HNO<sub>3</sub> / 3 = H<sub>2</sub>SO<sub>4</sub> / 4 = NaOH + NaAsO<sub>2</sub> / 5 = NaOH + ZnAc / 6 = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> / 7 = NaHSO<sub>4</sub> / 8 = MeOH



# **Analytical Report 477666**

**for**

## **Atlanta Environmental Management**

**Project Manager: Leona Miles**

**Aramark - Dekalb**

**1133-1401-3**

**22-JAN-14**

Collected By: Client



**6017 Financial Dr., Norcross, GA 30071**  
**Ph:(770) 449-8800 Fax:(770) 449-5477**

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

22-JAN-14

Project Manager: **Leona Miles**  
**Atlanta Environmental Management**  
2580 Northeast Expressway  
Atlanta, GA 30345

Reference: XENCO Report No(s): **477666**  
**Aramark - Dekalb**  
Project Address: GA

**Leona Miles:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 477666. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 477666 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,



---

**Eben Buchanan**  
Project Manager

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***  
*Certified and approved by numerous States and Agencies.*  
*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

**Atlanta Environmental Management, Atlanta, GA**

Aramark - Dekalb

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-207 P	W	01-16-14 14:40		477666-001
Trip Blank	W	01-16-14 00:00		477666-002

**Client Name:** Atlanta Environmental Management

**Project Name:** Aramark - Dekalb

Project ID: 1133-1401-3  
Work Order Number(s): 477666

Report Date: 22-JAN-14  
Date Received: 01/17/2014

---

**Sample receipt non conformances and comments:**

---

**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-932378 VOCs by SW-846 8260B

1,1,2-Trichloroethane, 1,2-Dibromoethane (EDB), 1,2-Dichlorobenzene, 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Benzene, Chlorobenzene, Isopropylbenzene recovered below QC limits in the Matrix Spike Duplicate. Methylcyclohexane, o-Xylene recovered above QC limits in the Matrix Spike.

Samples affected are: 477666-001.

The Laboratory Control Sample for 1,2-Dichloropropane, 1,3-Dichlorobenzene, Isopropylbenzene, Methylcyclohexane, 1,4-Dichlorobenzene, Benzene, o-Xylene, 1,2-Dibromoethane (EDB), 1,2-Dichlorobenzene, Chlorobenzene, 1,1,2-Trichloroethane is within laboratory Control Limits.

Ethylbenzene, Styrene, Toluene, m,p-Xylenes, o-Xylene MS/MSD RPD was outside QC limits.

Samples affected are: 477666-001.

**Atlanta Environmental Management, Atlanta, GA**

Aramark - Dekalb

Sample Id : **MW-207 P**

Matrix : Water

% Moisture :

Lab Sample Id : 477666-001

Date Collected : 01.16.14 14.40

Date Received : 01.17.14 08.42

Analytical Method : VOCs by SW-846 8260B

Prep Method: SW5030B

Seq Number 932378

Date Prep: 01.20.14 10.28

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Tetrachloroethene	127-18-4	5.9	ug/L	01.20.14 13.59		1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id: **MW-207 P**

Matrix: Water

Date Received: 01.17.14 08.42

Lab Sample Id: 477666-001

Date Collected: 01.16.14 14.40

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: MLA

Date Prep: 01.20.14 10.28

Seq Number: 932378

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.20.14 13.59	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.20.14 13.59	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.20.14 13.59	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.20.14 13.59	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.20.14 13.59	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.20.14 13.59	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.20.14 13.59	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.20.14 13.59	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.20.14 13.59	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.20.14 13.59	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.20.14 13.59	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.20.14 13.59	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.20.14 13.59	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.20.14 13.59	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.20.14 13.59	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	01.20.14 13.59	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	01.20.14 13.59	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.20.14 13.59	U	1
Acetone	67-64-1	BRL	50	ug/L	01.20.14 13.59	U	1
Benzene	71-43-2	BRL	5.0	ug/L	01.20.14 13.59	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.20.14 13.59	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.20.14 13.59	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.20.14 13.59	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.20.14 13.59	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.20.14 13.59	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.20.14 13.59	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.20.14 13.59	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.20.14 13.59	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.20.14 13.59	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.20.14 13.59	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	5.0	ug/L	01.20.14 13.59	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.20.14 13.59	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.20.14 13.59	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.20.14 13.59	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.20.14 13.59	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.20.14 13.59	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.20.14 13.59	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.20.14 13.59	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.20.14 13.59	U	1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id: **MW-207 P**

Matrix: Water

Date Received: 01.17.14 08.42

Lab Sample Id: 477666-001

Date Collected: 01.16.14 14.40

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: MLA

Date Prep: 01.20.14 10.28

Seq Number: 932378

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.20.14 13.59	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.20.14 13.59	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.20.14 13.59	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.20.14 13.59	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.20.14 13.59	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.20.14 13.59	U	1
<b>Tetrachloroethene</b>	127-18-4	<b>5.9</b>	5.0	ug/L	01.20.14 13.59		1
Toluene	108-88-3	BRL	5.0	ug/L	01.20.14 13.59	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	01.20.14 13.59	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.20.14 13.59	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	01.20.14 13.59	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.20.14 13.59	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	01.20.14 13.59	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	102	%	53-159	01.20.14 13.59		
4-Bromofluorobenzene	460-00-4	98	%	30-186	01.20.14 13.59		
Toluene-D8	2037-26-5	94	%	70-130	01.20.14 13.59		

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id: **Trip Blank**

Matrix: Water

Date Received: 01.17.14 08.42

Lab Sample Id: 477666-002

Date Collected: 01.16.14 00.00

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: MLA

Date Prep: 01.20.14 10.28

Seq Number: 932378

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	01.20.14 13.32	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	01.20.14 13.32	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	01.20.14 13.32	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	01.20.14 13.32	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	01.20.14 13.32	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	01.20.14 13.32	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	01.20.14 13.32	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	01.20.14 13.32	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	01.20.14 13.32	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	01.20.14 13.32	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	01.20.14 13.32	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	01.20.14 13.32	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	01.20.14 13.32	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	01.20.14 13.32	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	01.20.14 13.32	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	01.20.14 13.32	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	01.20.14 13.32	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	01.20.14 13.32	U	1
Acetone	67-64-1	BRL	50	ug/L	01.20.14 13.32	U	1
Benzene	71-43-2	BRL	5.0	ug/L	01.20.14 13.32	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	01.20.14 13.32	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	01.20.14 13.32	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	01.20.14 13.32	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	01.20.14 13.32	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	01.20.14 13.32	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	01.20.14 13.32	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	01.20.14 13.32	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	01.20.14 13.32	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	01.20.14 13.32	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	01.20.14 13.32	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	5.0	ug/L	01.20.14 13.32	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	01.20.14 13.32	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	01.20.14 13.32	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	01.20.14 13.32	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	01.20.14 13.32	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	01.20.14 13.32	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	01.20.14 13.32	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	01.20.14 13.32	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	01.20.14 13.32	U	1



## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb

Sample Id: **Trip Blank**

Matrix: Water

Date Received: 01.17.14 08.42

Lab Sample Id: 477666-002

Date Collected: 01.16.14 00.00

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: MLA

Date Prep: 01.20.14 10.28

Seq Number: 932378

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	01.20.14 13.32	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	01.20.14 13.32	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	01.20.14 13.32	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	01.20.14 13.32	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	01.20.14 13.32	U	1
Styrene	100-42-5	BRL	5.0	ug/L	01.20.14 13.32	U	1
Tetrachloroethene	127-18-4	BRL	5.0	ug/L	01.20.14 13.32	U	1
Toluene	108-88-3	BRL	5.0	ug/L	01.20.14 13.32	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	01.20.14 13.32	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	01.20.14 13.32	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	01.20.14 13.32	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	01.20.14 13.32	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	01.20.14 13.32	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	102	%	53-159	01.20.14 13.32		
4-Bromofluorobenzene	460-00-4	96	%	30-186	01.20.14 13.32		
Toluene-D8	2037-26-5	96	%	70-130	01.20.14 13.32		

# Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***

*Certified and approved by numerous States and Agencies.*

***A Small Business and Minority Status Company that delivers SERVICE and QUALITY***

Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Phoenix - Latin America

4143 Greenbriar Dr, Stafford, TX 77477  
9701 Harry Hines Blvd, Dallas, TX 75220  
5332 Blackberry Drive, San Antonio TX 78238  
2505 North Falkenburg Rd, Tampa, FL 33619  
12600 West I-20 East, Odessa, TX 79765  
6017 Financial Drive, Norcross, GA 30071  
3725 E. Atlanta Ave, Phoenix, AZ 85040

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Atlanta Environmental Management  
Aramark - Dekalb

Analytical Method: VOCs by SW-846 8260B

Seq Number: 932378

MB Sample Id: 649984-1-BLK

Matrix: Water

LCS Sample Id: 649984-1-BKS

Prep Method: SW5030B

Date Prep: 01.20.14

LCSD Sample Id: 649984-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.34	50	53	106	53	106	56-141	0	20	ug/L	01.20.14 11:17	
1,1,2,2-Tetrachloroethane	<2.0	50	48	96	48	96	64-135	0	20	ug/L	01.20.14 11:17	
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.97	50	44	88	47	94	54-134	7	20	ug/L	01.20.14 11:17	
1,1,2-Trichloroethane	<0.88	50	50	100	49	98	73-123	2	20	ug/L	01.20.14 11:17	
1,1-Dichloroethane	<0.74	50	52	104	51	102	66-126	2	20	ug/L	01.20.14 11:17	
1,1-Dichloroethene	<0.98	50	58	116	59	118	65-129	2	20	ug/L	01.20.14 11:17	
1,2,3-Trichlorobenzene	<2.6	50	58	116	59	118	56-146	2	20	ug/L	01.20.14 11:17	
1,2,4-Trichlorobenzene	<1.3	50	55	110	56	112	62-141	2	20	ug/L	01.20.14 11:17	
1,2-Dibromo-3-chloropropane (DBCP)	<2.8	50	49	98	50	100	48-144	2	20	ug/L	01.20.14 11:17	
1,2-Dibromoethane (EDB)	<0.79	50	50	100	52	104	70-130	4	20	ug/L	01.20.14 11:17	
1,2-Dichlorobenzene	<0.73	50	50	100	49	98	77-123	2	20	ug/L	01.20.14 11:17	
1,2-Dichloroethane	<0.82	50	53	106	54	108	57-137	2	20	ug/L	01.20.14 11:17	
1,2-Dichloropropane	<0.81	50	52	104	51	102	74-121	2	20	ug/L	01.20.14 11:17	
1,3-Dichlorobenzene	<0.74	50	49	98	49	98	79-120	0	20	ug/L	01.20.14 11:17	
1,4-Dichlorobenzene	<0.59	50	49	98	48	96	77-119	2	20	ug/L	01.20.14 11:17	
2-Butanone (MEK)	<1.3	100	110	110	110	110	42-165	0	20	ug/L	01.20.14 11:17	
2-Hexanone	<2.5	100	100	100	100	100	46-157	0	20	ug/L	01.20.14 11:17	
4-Methyl-2-pentanone (MIBK)	<2.2	100	98	98	96	96	54-145	2	20	ug/L	01.20.14 11:17	
Acetone	<1.4	100	88	88	93	93	42-178	6	20	ug/L	01.20.14 11:17	
Benzene	<0.67	50	52	104	51	102	76-119	2	20	ug/L	01.20.14 11:17	
Bromochloromethane	<0.47	50	57	114	57	114	75-123	0	20	ug/L	01.20.14 11:17	
Bromodichloromethane	<0.96	50	54	108	54	108	69-131	0	20	ug/L	01.20.14 11:17	
Bromoform	<1.4	50	54	108	53	106	66-130	2	20	ug/L	01.20.14 11:17	
Bromomethane	<2.7	50	41	82	41	82	59-141	0	20	ug/L	01.20.14 11:17	
Carbon disulfide	<0.73	50	41	82	42	84	47-144	2	20	ug/L	01.20.14 11:17	
Carbon tetrachloride	<0.89	50	53	106	54	108	46-155	2	20	ug/L	01.20.14 11:17	
Chlorobenzene	<0.59	50	50	100	50	100	81-114	0	20	ug/L	01.20.14 11:17	
Chloroethane	<0.23	50	41	82	43	86	63-133	5	20	ug/L	01.20.14 11:17	
Chloroform	<1.4	50	52	104	51	102	68-127	2	20	ug/L	01.20.14 11:17	
Chloromethane	<1.2	50	43	86	40	80	43-141	7	20	ug/L	01.20.14 11:17	
cis-1,2-Dichloroethene	<0.80	50	53	106	54	108	73-124	2	20	ug/L	01.20.14 11:17	
cis-1,3-Dichloropropene	<0.76	50	55	110	55	110	72-132	0	20	ug/L	01.20.14 11:17	
Cyclohexane	<0.99	50	45	90	51	102	58-125	13	20	ug/L	01.20.14 11:17	
Dibromochloromethane	<0.79	50	53	106	52	104	69-128	2	20	ug/L	01.20.14 11:17	
Dichlorodifluoromethane	<0.73	50	39	78	41	82	24-153	5	20	ug/L	01.20.14 11:17	
Ethylbenzene	<0.66	50	50	100	49	98	78-122	2	20	ug/L	01.20.14 11:17	
Isopropylbenzene	<1.0	50	48	96	48	96	71-131	0	20	ug/L	01.20.14 11:17	
m,p-Xylenes	<1.2	100	100	100	99	99	76-124	1	20	ug/L	01.20.14 11:17	
Methyl acetate	<0.15	50	49	98	49	98	65-135	0	20	ug/L	01.20.14 11:17	
Methyl tert-butyl ether	<0.62	100	110	110	110	110	59-135	0	20	ug/L	01.20.14 11:17	
Methylcyclohexane	<0.76	50	49	98	51	102	61-125	4	20	ug/L	01.20.14 11:17	
Methylene chloride	<0.92	50	49	98	48	96	64-135	2	20	ug/L	01.20.14 11:17	
Naphthalene	<4.0	50	51	102	52	104	46-159	2	20	ug/L	01.20.14 11:17	
o-Xylene	<0.57	50	51	102	50	100	78-124	2	20	ug/L	01.20.14 11:17	
Styrene	<0.56	50	52	104	50	100	79-123	4	20	ug/L	01.20.14 11:17	
Tetrachloroethene	<1.8	50	50	100	52	104	71-125	4	20	ug/L	01.20.14 11:17	
Toluene	<0.68	50	49	98	49	98	78-118	0	20	ug/L	01.20.14 11:17	
trans-1,2-Dichloroethene	<0.73	50	53	106	54	108	71-126	2	20	ug/L	01.20.14 11:17	
trans-1,3-Dichloropropene	<0.84	50	53	106	53	106	68-131	0	20	ug/L	01.20.14 11:17	
Trichloroethene	<0.72	50	54	108	54	108	76-118	0	20	ug/L	01.20.14 11:17	
Trichlorofluoromethane	<0.85	50	43	86	42	84	35-153	2	20	ug/L	01.20.14 11:17	
Vinyl chloride	<0.15	50	42	84	42	84	59-129	0	20	ug/L	01.20.14 11:17	

**Atlanta Environmental Management**  
Aramark - Dekalb

**Analytical Method:** VOCs by SW-846 8260B

Seq Number: 932378

MB Sample Id: 649984-1-BLK

Matrix: Water

LCS Sample Id: 649984-1-BKS

Prep Method: SW5030B

Date Prep: 01.20.14

LCSD Sample Id: 649984-1-BSD

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	100		96		98		53-159	%	01.20.14 11:17
4-Bromofluorobenzene	96		98		96		30-186	%	01.20.14 11:17
Toluene-D8	96		96		94		70-130	%	01.20.14 11:17

**Atlanta Environmental Management**  
Aramark - Dekalb

**Analytical Method:** VOCs by SW-846 8260B

Seq Number: 932378

Parent Sample Id: 477666-001

Matrix: Water

MS Sample Id: 477666-001 S

Prep Method: SW5030B

Date Prep: 01.20.14

MSD Sample Id: 477666-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.34	50	49	98	45	90	63-149	9	20	ug/L	01.20.14 21:48	
1,1,2,2-Tetrachloroethane	<2.0	50	46	92	43	86	58-140	7	20	ug/L	01.20.14 21:48	
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.97	50	43	86	47	94	42-156	9	20	ug/L	01.20.14 21:48	
1,1,2-Trichloroethane	<0.88	50	43	86	37	74	49-140	15	20	ug/L	01.20.14 21:48	X
1,1-Dichloroethane	<0.74	50	44	88	38	76	67-136	15	20	ug/L	01.20.14 21:48	
1,1-Dichloroethene	<0.98	50	42	84	39	78	52-141	7	20	ug/L	01.20.14 21:48	
1,2,3-Trichlorobenzene	<2.6	50	47	94	41	82	50-131	14	20	ug/L	01.20.14 21:48	
1,2,4-Trichlorobenzene	<1.3	50	43	86	36	72	51-125	18	20	ug/L	01.20.14 21:48	
1,2-Dibromo-3-chloropropane (DBCP)	<2.8	50	47	94	50	100	43-155	6	20	ug/L	01.20.14 21:48	
1,2-Dibromoethane (EDB)	<0.79	50	46	92	39	78	66-136	16	20	ug/L	01.20.14 21:48	X
1,2-Dichlorobenzene	<0.73	50	41	82	34	68	70-124	19	20	ug/L	01.20.14 21:48	X
1,2-Dichloroethane	<0.82	50	51	102	42	84	71-143	19	20	ug/L	01.20.14 21:48	
1,2-Dichloropropane	<0.81	50	42	84	36	72	74-125	15	20	ug/L	01.20.14 21:48	X
1,3-Dichlorobenzene	<0.74	50	40	80	34	68	73-123	16	20	ug/L	01.20.14 21:48	X
1,4-Dichlorobenzene	<0.59	50	40	80	34	68	74-116	16	20	ug/L	01.20.14 21:48	X
2-Butanone (MEK)	<1.3	100	98	98	100	100	43-155	2	20	ug/L	01.20.14 21:48	
2-Hexanone	<2.5	100	96	96	95	95	52-148	1	20	ug/L	01.20.14 21:48	
4-Methyl-2-pentanone (MIBK)	<2.2	100	91	91	88	88	61-141	3	20	ug/L	01.20.14 21:48	
Acetone	<1.4	100	94	94	110	110	40-140	16	20	ug/L	01.20.14 21:48	
Benzene	<0.67	50	44	88	37	74	78-117	17	20	ug/L	01.20.14 21:48	X
Bromochloromethane	<0.47	50	48	96	41	82	65-127	16	20	ug/L	01.20.14 21:48	
Bromodichloromethane	<0.96	50	47	94	39	78	71-133	19	20	ug/L	01.20.14 21:48	
Bromoform	<1.4	50	48	96	44	88	55-129	9	20	ug/L	01.20.14 21:48	
Bromomethane	<2.7	50	39	78	33	66	49-157	17	20	ug/L	01.20.14 21:48	
Carbon disulfide	<0.73	50	37	74	33	66	31-142	11	20	ug/L	01.20.14 21:48	
Carbon tetrachloride	<0.89	50	49	98	48	96	63-152	2	20	ug/L	01.20.14 21:48	
Chlorobenzene	<0.59	50	43	86	36	72	75-117	18	20	ug/L	01.20.14 21:48	X
Chloroethane	<0.23	50	41	82	38	76	49-147	8	20	ug/L	01.20.14 21:48	
Chloroform	<1.4	50	48	96	41	82	67-136	16	20	ug/L	01.20.14 21:48	
Chloromethane	<1.2	50	30	60	28	56	35-162	7	20	ug/L	01.20.14 21:48	
cis-1,2-Dichloroethene	<0.80	50	44	88	38	76	64-132	15	20	ug/L	01.20.14 21:48	
cis-1,3-Dichloropropene	<0.76	50	45	90	38	76	69-116	17	20	ug/L	01.20.14 21:48	
Cyclohexane	<0.99	50	37	74	36	72	59-141	3	20	ug/L	01.20.14 21:48	
Dibromochloromethane	<0.79	50	48	96	40	80	54-144	18	20	ug/L	01.20.14 21:48	
Dichlorodifluoromethane	<0.73	50	35	70	37	74	26-171	6	20	ug/L	01.20.14 21:48	
Ethylbenzene	<0.66	50	54	108	40	80	74-131	30	20	ug/L	01.20.14 21:48	F
Isopropylbenzene	<1.0	50	44	88	37	74	63-133	17	20	ug/L	01.20.14 21:48	X
m,p-Xylenes	<1.2	100	130	130	88	88	67-134	39	20	ug/L	01.20.14 21:48	F
Methyl acetate	<0.15	50	56	112	47	94	65-135	17	20	ug/L	01.20.14 21:48	
Methyl tert-butyl ether	<0.62	100	99	99	85	85	51-156	15	20	ug/L	01.20.14 21:48	
Methylcyclohexane	<0.76	50	66	132	54	108	62-123	20	20	ug/L	01.20.14 21:48	X
Methylene chloride	<0.92	50	40	80	33	66	52-165	19	20	ug/L	01.20.14 21:48	
Naphthalene	<4.0	50	53	106	48	96	31-151	10	20	ug/L	01.20.14 21:48	
o-Xylene	<0.57	50	64	128	43	86	70-125	39	20	ug/L	01.20.14 21:48	XF
Styrene	<0.56	50	43	86	35	70	42-145	21	20	ug/L	01.20.14 21:48	F
Tetrachloroethene	5.9	50	48	84	44	76	57-132	9	20	ug/L	01.20.14 21:48	
Toluene	<0.68	50	53	106	38	76	76-119	33	20	ug/L	01.20.14 21:48	F
trans-1,2-Dichloroethene	<0.73	50	43	86	39	78	46-152	10	20	ug/L	01.20.14 21:48	
trans-1,3-Dichloropropene	<0.84	50	47	94	39	78	60-132	19	20	ug/L	01.20.14 21:48	
Trichloroethene	<0.72	50	46	92	41	82	77-120	11	20	ug/L	01.20.14 21:48	
Trichlorofluoromethane	<0.85	50	44	88	45	90	47-165	2	20	ug/L	01.20.14 21:48	
Vinyl chloride	<0.15	50	35	70	33	66	43-148	6	20	ug/L	01.20.14 21:48	

**Atlanta Environmental Management**  
Aramark - Dekalb

**Analytical Method:** VOCs by SW-846 8260B

Seq Number: 932378

Parent Sample Id: 477666-001

Matrix: Water

MS Sample Id: 477666-001 S

Prep Method: SW5030B

Date Prep: 01.20.14

MSD Sample Id: 477666-001 SD

**Surrogate**

1,2-Dichloroethane-D4

4-Bromofluorobenzene

Toluene-D8

MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
110		108		53-159	%	01.20.14 21:48
100		102		30-186	%	01.20.14 21:48
96		94		70-130	%	01.20.14 21:48



6017 Financial Drive, Norcross, GA 30071

Phone # (770) 449-8800 Fax # (770) 449-5477

## CHAIN OF CUSTODY

Company Name: Atlanta Environmental Management

Billing address: 2580 Northeast Expressway, Atlanta, GA 30345

Address: 2580 Northeast Expressway, Atlanta, GA 30345

P.O.# (if required):

Results Sent to: (Client Contact): **Hard Copy (Mail) to Leona Miles**

**For Laboratory Use Only:**

AAL LIMS System ID: 8672

Email address: **EDD to [leona-miles@aem-net.com](mailto:leona-miles@aem-net.com)**

OC Level: 1 2 3 4 CLP-Like

Receiver's Initials/Temp. *23.1°C*

Contact Phone #: 404-329-9006

Fax #: 404-329-2057

Custody Seal(s):            Y   N   Tape

AAL Work Order # 470

Project (Site) Name: ARAMARK DeKalb

### Analysis Requested

Project Number: 1133-1401-3

**Preservation Code:** (See below)

\_\_\_\_\_

**Sampler(s):** (signature)

**Sampler(s): (printed)**

Sampler(s): (signature)

*Long J Gordon*

o. ☐ ☐ ☐

Sampler(s): (printed)  
Tony L Gordon

**XENCO**  
**Lab ID:**

1) Relinquished By:

Date / Time

2) Received By:

Date / Time

Delivered by: (Circle One)

**Fed Ex / UPS / DHL / AAL Pickup / Hand / Other**

3) Relinquished By:

Date / Time

4) Received By:

Date / Time

Turnaround Time Requested:

Standard

**Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)**

Preservation Codes: 1 = HCL / 2 = HNO<sub>3</sub> / 3 = H<sub>2</sub>SO<sub>4</sub> / 4 = NaOH + NaAsO<sub>2</sub> / 5 = NaOH + ZnAc / 6 = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> / 7 = NaHSO<sub>4</sub> / 8 = MeOH

**Client:** Atlanta Environmental Management

**Date/ Time Received:** 01/17/2014 08:42:00 AM

**Work Order #:** 477666

**Acceptable Temperature Range:** 0 - 6 degC

**Air and Metal samples Acceptable Range:** Ambient

**Temperature Measuring device used :** #61

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ?	N/A
#22 >10 for all samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH?	N/A

**\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

**Checklist completed by:**



Dario Lagunas

Date: 01/17/2014

**Checklist reviewed by:**



Eben Buchanan

Date: 01/17/2014



# **Analytical Report 478156**

**for**

## **Atlanta Environmental Management**

**Project Manager: Leona Miles**

**Aramark - Dekalb Ave**

**1133-1401-3**

**03-FEB-14**

Collected By: Client



Florida Testing Services, LLC



**6017 Financial Dr., Norcross, GA 30071**

**Ph:(770) 449-8800 Fax:(770) 449-5477**

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

03-FEB-14

Project Manager: **Leona Miles**  
**Atlanta Environmental Management**  
2580 Northeast Expressway  
Atlanta, GA 30345

Reference: XENCO Report No(s): **478156**  
**Aramark - Dekalb Ave**  
Project Address: GA

**Leona Miles:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 478156. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 478156 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,



---

**Eben Buchanan**  
Project Manager

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***  
*Certified and approved by numerous States and Agencies.*  
*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

## Sample Cross Reference 478156

### Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb Ave

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-306	W	01-27-14 11:20		478156-001
MW-206	W	01-27-14 12:45		478156-002
Drum#3	W	01-27-14 13:00		478156-003
Trip Blank	W	01-27-14 00:00		478156-004

***Client Name: Atlanta Environmental Management***

***Project Name: Aramark - Dekalb Ave***

Project ID: 1133-1401-3  
Work Order Number(s): 478156

Report Date: 03-FEB-14  
Date Received: 01/27/2014

---

**Sample receipt non conformances and comments:**

---

**Sample receipt non conformances and comments per sample:**

None

**Atlanta Environmental Management, Atlanta, GA**  
Aramark - Dekalb Ave

Sample Id : **MW-306**  
Lab Sample Id : 478156-001

Matrix : Water  
Date Collected : 01.27.14 11.20  
Date Received : 01.27.14 15.18

% Moisture :

Analytical Method : VOCs by SW-846 8260B  
Seq Number 933213

Prep Method: SW5030B  
Date Prep: 02.03.14 07.06

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Tetrachloroethene	127-18-4	32	ug/L	02.03.14 10.36		1

**Atlanta Environmental Management, Atlanta, GA**  
Aramark - Dekalb Ave

Sample Id : **MW-206**  
Lab Sample Id : 478156-002

Matrix : Water  
Date Collected : 01.27.14 12.45  
Date Received : 01.27.14 15.18

% Moisture :

Analytical Method : VOCs by SW-846 8260B  
Seq Number 933213

Prep Method: SW5030B  
Date Prep: 02.03.14 07.06

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
cis-1,2-Dichloroethene	156-59-2	11	ug/L	02.03.14 11.04		1
Methyl tert-butyl ether	1634-04-4	66	ug/L	02.03.14 11.04		1

**Atlanta Environmental Management, Atlanta, GA**  
Aramark - Dekalb Ave

Sample Id : **Drum#3**  
Lab Sample Id : 478156-003

Matrix : Water  
Date Collected : 01.27.14 13.00  
Date Received : 01.27.14 15.18

% Moisture :

Analytical Method : VOCs by SW-846 8260B  
Seq Number 933213

Prep Method: SW5030B  
Date Prep: 02.03.14 07.06

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Acetone	67-64-1	69	ug/L	02.03.14 11.31		1
cis-1,2-Dichloroethene	156-59-2	17	ug/L	02.03.14 11.31		1
Tetrachloroethene	127-18-4	10	ug/L	02.03.14 11.31		1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb Ave

Sample Id: **MW-306**  
Lab Sample Id: 478156-001

Matrix: Water  
Date Collected: 01.27.14 11.20

Date Received: 01.27.14 15.18

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 02.03.14 07.06

Seq Number: 933213

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	02.03.14 10.36	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	02.03.14 10.36	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	02.03.14 10.36	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	02.03.14 10.36	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	02.03.14 10.36	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	02.03.14 10.36	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	02.03.14 10.36	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	02.03.14 10.36	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	02.03.14 10.36	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	02.03.14 10.36	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	02.03.14 10.36	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	02.03.14 10.36	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	02.03.14 10.36	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	02.03.14 10.36	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	02.03.14 10.36	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	02.03.14 10.36	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	02.03.14 10.36	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	02.03.14 10.36	U	1
Acetone	67-64-1	BRL	50	ug/L	02.03.14 10.36	U	1
Benzene	71-43-2	BRL	5.0	ug/L	02.03.14 10.36	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	02.03.14 10.36	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	02.03.14 10.36	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	02.03.14 10.36	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	02.03.14 10.36	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	02.03.14 10.36	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	02.03.14 10.36	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	02.03.14 10.36	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	02.03.14 10.36	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	02.03.14 10.36	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	02.03.14 10.36	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	5.0	ug/L	02.03.14 10.36	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	02.03.14 10.36	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	02.03.14 10.36	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	02.03.14 10.36	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	02.03.14 10.36	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	02.03.14 10.36	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	02.03.14 10.36	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	02.03.14 10.36	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	02.03.14 10.36	U	1



## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb Ave

Sample Id: **MW-306**  
Lab Sample Id: 478156-001

Matrix: Water  
Date Collected: 01.27.14 11.20

Date Received: 01.27.14 15.18

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 02.03.14 07.06

Seq Number: 933213

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	02.03.14 10.36	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	02.03.14 10.36	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	02.03.14 10.36	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	02.03.14 10.36	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	02.03.14 10.36	U	1
Styrene	100-42-5	BRL	5.0	ug/L	02.03.14 10.36	U	1
<b>Tetrachloroethene</b>	127-18-4	<b>32</b>	5.0	ug/L	02.03.14 10.36		1
Toluene	108-88-3	BRL	5.0	ug/L	02.03.14 10.36	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	02.03.14 10.36	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	02.03.14 10.36	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	02.03.14 10.36	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	02.03.14 10.36	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	02.03.14 10.36	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	102	%	53-159	02.03.14 10.36		
4-Bromofluorobenzene	460-00-4	104	%	30-186	02.03.14 10.36		
Toluene-D8	2037-26-5	112	%	70-130	02.03.14 10.36		

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb Ave

Sample Id: **MW-206**  
Lab Sample Id: 478156-002

Matrix: Water  
Date Collected: 01.27.14 12.45

Date Received: 01.27.14 15.18

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 02.03.14 07.06

Seq Number: 933213

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	02.03.14 11.04	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	02.03.14 11.04	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	02.03.14 11.04	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	02.03.14 11.04	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	02.03.14 11.04	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	02.03.14 11.04	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	02.03.14 11.04	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	02.03.14 11.04	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	02.03.14 11.04	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	02.03.14 11.04	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	02.03.14 11.04	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	02.03.14 11.04	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	02.03.14 11.04	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	02.03.14 11.04	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	02.03.14 11.04	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	02.03.14 11.04	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	02.03.14 11.04	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	02.03.14 11.04	U	1
Acetone	67-64-1	BRL	50	ug/L	02.03.14 11.04	U	1
Benzene	71-43-2	BRL	5.0	ug/L	02.03.14 11.04	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	02.03.14 11.04	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	02.03.14 11.04	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	02.03.14 11.04	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	02.03.14 11.04	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	02.03.14 11.04	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	02.03.14 11.04	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	02.03.14 11.04	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	02.03.14 11.04	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	02.03.14 11.04	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	02.03.14 11.04	U	1
<b>cis-1,2-Dichloroethene</b>	156-59-2	<b>11</b>	5.0	ug/L	02.03.14 11.04		1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	02.03.14 11.04	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	02.03.14 11.04	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	02.03.14 11.04	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	02.03.14 11.04	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	02.03.14 11.04	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	02.03.14 11.04	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	02.03.14 11.04	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	02.03.14 11.04	U	1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb Ave

Sample Id: **MW-206**  
Lab Sample Id: 478156-002

Matrix: Water  
Date Collected: 01.27.14 12.45

Date Received: 01.27.14 15.18

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 02.03.14 07.06

Seq Number: 933213

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
<b>Methyl tert-butyl ether</b>	1634-04-4	<b>66</b>	5.0	ug/L	02.03.14 11.04		1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	02.03.14 11.04	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	02.03.14 11.04	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	02.03.14 11.04	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	02.03.14 11.04	U	1
Styrene	100-42-5	BRL	5.0	ug/L	02.03.14 11.04	U	1
Tetrachloroethene	127-18-4	BRL	5.0	ug/L	02.03.14 11.04	U	1
Toluene	108-88-3	BRL	5.0	ug/L	02.03.14 11.04	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	02.03.14 11.04	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	02.03.14 11.04	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	02.03.14 11.04	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	02.03.14 11.04	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	02.03.14 11.04	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	104	%	53-159	02.03.14 11.04		
4-Bromofluorobenzene	460-00-4	104	%	30-186	02.03.14 11.04		
Toluene-D8	2037-26-5	108	%	70-130	02.03.14 11.04		

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb Ave

Sample Id: **Drum#3**  
Lab Sample Id: 478156-003

Matrix: Water  
Date Collected: 01.27.14 13.00

Date Received: 01.27.14 15.18

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 02.03.14 07.06

Seq Number: 933213

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	02.03.14 11.31	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	02.03.14 11.31	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	02.03.14 11.31	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	02.03.14 11.31	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	02.03.14 11.31	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	02.03.14 11.31	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	02.03.14 11.31	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	02.03.14 11.31	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	02.03.14 11.31	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	02.03.14 11.31	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	02.03.14 11.31	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	02.03.14 11.31	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	02.03.14 11.31	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	02.03.14 11.31	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	02.03.14 11.31	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	02.03.14 11.31	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	02.03.14 11.31	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	02.03.14 11.31	U	1
<b>Acetone</b>	67-64-1	<b>69</b>	50	ug/L	02.03.14 11.31		1
Benzene	71-43-2	BRL	5.0	ug/L	02.03.14 11.31	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	02.03.14 11.31	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	02.03.14 11.31	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	02.03.14 11.31	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	02.03.14 11.31	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	02.03.14 11.31	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	02.03.14 11.31	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	02.03.14 11.31	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	02.03.14 11.31	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	02.03.14 11.31	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	02.03.14 11.31	U	1
<b>cis-1,2-Dichloroethene</b>	156-59-2	<b>17</b>	5.0	ug/L	02.03.14 11.31		1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	02.03.14 11.31	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	02.03.14 11.31	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	02.03.14 11.31	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	02.03.14 11.31	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	02.03.14 11.31	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	02.03.14 11.31	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	02.03.14 11.31	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	02.03.14 11.31	U	1

# Certificate of Analytical Results 478156

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb Ave

Sample Id: **Drum#3**  
Lab Sample Id: 478156-003

Matrix: Water  
Date Collected: 01.27.14 13.00

Date Received: 01.27.14 15.18

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 02.03.14 07.06

Seq Number: 933213

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	02.03.14 11.31	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	02.03.14 11.31	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	02.03.14 11.31	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	02.03.14 11.31	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	02.03.14 11.31	U	1
Styrene	100-42-5	BRL	5.0	ug/L	02.03.14 11.31	U	1
<b>Tetrachloroethene</b>	127-18-4	<b>10</b>	5.0	ug/L	02.03.14 11.31		1
Toluene	108-88-3	BRL	5.0	ug/L	02.03.14 11.31	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	02.03.14 11.31	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	02.03.14 11.31	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	02.03.14 11.31	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	02.03.14 11.31	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	02.03.14 11.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	104	%	53-159	02.03.14 11.31	
4-Bromofluorobenzene	460-00-4	104	%	30-186	02.03.14 11.31	
Toluene-D8	2037-26-5	108	%	70-130	02.03.14 11.31	

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb Ave

Sample Id: **Trip Blank**

Matrix: Water

Date Received: 01.27.14 15.18

Lab Sample Id: 478156-004

Date Collected: 01.27.14 00.00

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 02.03.14 07.06

Seq Number: 933213

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	BRL	5.0	ug/L	02.03.14 10.09	U	1
1,1,2,2-Tetrachloroethane	79-34-5	BRL	5.0	ug/L	02.03.14 10.09	U	1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BRL	5.0	ug/L	02.03.14 10.09	U	1
1,1,2-Trichloroethane	79-00-5	BRL	5.0	ug/L	02.03.14 10.09	U	1
1,1-Dichloroethane	75-34-3	BRL	5.0	ug/L	02.03.14 10.09	U	1
1,1-Dichloroethene	75-35-4	BRL	5.0	ug/L	02.03.14 10.09	U	1
1,2,3-Trichlorobenzene	87-61-6	BRL	5.0	ug/L	02.03.14 10.09	U	1
1,2,4-Trichlorobenzene	120-82-1	BRL	5.0	ug/L	02.03.14 10.09	U	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	BRL	5.0	ug/L	02.03.14 10.09	U	1
1,2-Dibromoethane (EDB)	106-93-4	BRL	5.0	ug/L	02.03.14 10.09	U	1
1,2-Dichlorobenzene	95-50-1	BRL	5.0	ug/L	02.03.14 10.09	U	1
1,2-Dichloroethane	107-06-2	BRL	5.0	ug/L	02.03.14 10.09	U	1
1,2-Dichloropropane	78-87-5	BRL	5.0	ug/L	02.03.14 10.09	U	1
1,3-Dichlorobenzene	541-73-1	BRL	5.0	ug/L	02.03.14 10.09	U	1
1,4-Dichlorobenzene	106-46-7	BRL	5.0	ug/L	02.03.14 10.09	U	1
2-Butanone (MEK)	78-93-3	BRL	50	ug/L	02.03.14 10.09	U	1
2-Hexanone	591-78-6	BRL	50	ug/L	02.03.14 10.09	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	BRL	50	ug/L	02.03.14 10.09	U	1
Acetone	67-64-1	BRL	50	ug/L	02.03.14 10.09	U	1
Benzene	71-43-2	BRL	5.0	ug/L	02.03.14 10.09	U	1
Bromochloromethane	74-97-5	BRL	5.0	ug/L	02.03.14 10.09	U	1
Bromodichloromethane	75-27-4	BRL	5.0	ug/L	02.03.14 10.09	U	1
Bromoform	75-25-2	BRL	5.0	ug/L	02.03.14 10.09	U	1
Bromomethane	74-83-9	BRL	5.0	ug/L	02.03.14 10.09	U	1
Carbon disulfide	75-15-0	BRL	5.0	ug/L	02.03.14 10.09	U	1
Carbon tetrachloride	56-23-5	BRL	5.0	ug/L	02.03.14 10.09	U	1
Chlorobenzene	108-90-7	BRL	5.0	ug/L	02.03.14 10.09	U	1
Chloroethane	75-00-3	BRL	4.0	ug/L	02.03.14 10.09	U	1
Chloroform	67-66-3	BRL	5.0	ug/L	02.03.14 10.09	U	1
Chloromethane	74-87-3	BRL	5.0	ug/L	02.03.14 10.09	U	1
cis-1,2-Dichloroethene	156-59-2	BRL	5.0	ug/L	02.03.14 10.09	U	1
cis-1,3-Dichloropropene	10061-01-5	BRL	5.0	ug/L	02.03.14 10.09	U	1
Cyclohexane	110-82-7	BRL	5.0	ug/L	02.03.14 10.09	U	1
Dibromochloromethane	124-48-1	BRL	5.0	ug/L	02.03.14 10.09	U	1
Dichlorodifluoromethane	75-71-8	BRL	5.0	ug/L	02.03.14 10.09	U	1
Ethylbenzene	100-41-4	BRL	5.0	ug/L	02.03.14 10.09	U	1
Isopropylbenzene	98-82-8	BRL	5.0	ug/L	02.03.14 10.09	U	1
m,p-Xylenes	179601-23-1	BRL	5.0	ug/L	02.03.14 10.09	U	1
Methyl acetate	79-20-9	BRL	5.0	ug/L	02.03.14 10.09	U	1

## Atlanta Environmental Management, Atlanta, GA

Aramark - Dekalb Ave

Sample Id: **Trip Blank**

Matrix: Water

Date Received: 01.27.14 15.18

Lab Sample Id: 478156-004

Date Collected: 01.27.14 00.00

Analytical Method: VOCs by SW-846 8260B

Prep Method: SW5030B

Tech: MWE

% Moisture:

Analyst: MLA

Date Prep: 02.03.14 07.06

Seq Number: 933213

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Methyl tert-butyl ether	1634-04-4	BRL	5.0	ug/L	02.03.14 10.09	U	1
Methylcyclohexane	108-87-2	BRL	5.0	ug/L	02.03.14 10.09	U	1
Methylene chloride	75-09-2	BRL	5.0	ug/L	02.03.14 10.09	U	1
Naphthalene	91-20-3	BRL	5.0	ug/L	02.03.14 10.09	U	1
o-Xylene	95-47-6	BRL	5.0	ug/L	02.03.14 10.09	U	1
Styrene	100-42-5	BRL	5.0	ug/L	02.03.14 10.09	U	1
Tetrachloroethene	127-18-4	BRL	5.0	ug/L	02.03.14 10.09	U	1
Toluene	108-88-3	BRL	5.0	ug/L	02.03.14 10.09	U	1
trans-1,2-Dichloroethene	156-60-5	BRL	5.0	ug/L	02.03.14 10.09	U	1
trans-1,3-Dichloropropene	10061-02-6	BRL	5.0	ug/L	02.03.14 10.09	U	1
Trichloroethene	79-01-6	BRL	5.0	ug/L	02.03.14 10.09	U	1
Trichlorofluoromethane	75-69-4	BRL	5.0	ug/L	02.03.14 10.09	U	1
Vinyl chloride	75-01-4	BRL	2.0	ug/L	02.03.14 10.09	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,2-Dichloroethane-D4	17060-07-0	102	%	53-159	02.03.14 10.09		
4-Bromofluorobenzene	460-00-4	106	%	30-186	02.03.14 10.09		
Toluene-D8	2037-26-5	106	%	70-130	02.03.14 10.09		

# Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **SQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***

*Certified and approved by numerous States and Agencies.*

***A Small Business and Minority Status Company that delivers SERVICE and QUALITY***

Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Phoenix - Latin America

4143 Greenbriar Dr, Stafford, TX 77477  
9701 Harry Hines Blvd, Dallas, TX 75220  
5332 Blackberry Drive, San Antonio TX 78238  
2505 North Falkenburg Rd, Tampa, FL 33619  
12600 West I-20 East, Odessa, TX 79765  
6017 Financial Drive, Norcross, GA 30071  
3725 E. Atlanta Ave, Phoenix, AZ 85040

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



**Atlanta Environmental Management**  
Aramark - Dekalb Ave

**Analytical Method:** VOCs by SW-846 8260B

Seq Number: 933213

MB Sample Id: 650521-1-BLK

Matrix: Water

LCS Sample Id: 650521-1-BKS

Prep Method: SW5030B

Date Prep: 02.03.14

LCSD Sample Id: 650521-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.34	50	45	90	45	90	56-141	0	20	ug/L	02.03.14 07:55	
1,1,2,2-Tetrachloroethane	<2.0	50	63	126	63	126	64-135	0	20	ug/L	02.03.14 07:55	
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.97	50	45	90	44	88	54-134	2	20	ug/L	02.03.14 07:55	
1,1,2-Trichloroethane	<0.88	50	57	114	56	112	73-123	2	20	ug/L	02.03.14 07:55	
1,1-Dichloroethane	<0.74	50	50	100	49	98	66-126	2	20	ug/L	02.03.14 07:55	
1,1-Dichloroethene	<0.98	50	45	90	45	90	65-129	0	20	ug/L	02.03.14 07:55	
1,2,3-Trichlorobenzene	<2.6	50	57	114	57	114	56-146	0	20	ug/L	02.03.14 07:55	
1,2,4-Trichlorobenzene	<1.3	50	55	110	54	108	62-141	2	20	ug/L	02.03.14 07:55	
1,2-Dibromo-3-chloropropane (DBCP)	<2.8	50	56	112	57	114	48-144	2	20	ug/L	02.03.14 07:55	
1,2-Dibromoethane (EDB)	<0.79	50	57	114	56	112	70-130	2	20	ug/L	02.03.14 07:55	
1,2-Dichlorobenzene	<0.73	50	54	108	53	106	77-123	2	20	ug/L	02.03.14 07:55	
1,2-Dichloroethane	<0.82	50	49	98	48	96	57-137	2	20	ug/L	02.03.14 07:55	
1,2-Dichloropropane	<0.81	50	52	104	50	100	74-121	4	20	ug/L	02.03.14 07:55	
1,3-Dichlorobenzene	<0.74	50	53	106	52	104	79-120	2	20	ug/L	02.03.14 07:55	
1,4-Dichlorobenzene	<0.59	50	53	106	51	102	77-119	4	20	ug/L	02.03.14 07:55	
2-Butanone (MEK)	<1.3	100	130	130	130	130	42-165	0	20	ug/L	02.03.14 07:55	
2-Hexanone	<2.5	100	130	130	140	140	46-157	7	20	ug/L	02.03.14 07:55	
4-Methyl-2-pentanone (MIBK)	<2.2	100	110	110	110	110	54-145	0	20	ug/L	02.03.14 07:55	
Acetone	<1.4	100	120	120	110	110	42-178	9	20	ug/L	02.03.14 07:55	
Benzene	<0.67	50	49	98	48	96	76-119	2	20	ug/L	02.03.14 07:55	
Bromochloromethane	<0.47	50	51	102	51	102	75-123	0	20	ug/L	02.03.14 07:55	
Bromodichloromethane	<0.96	50	50	100	49	98	69-131	2	20	ug/L	02.03.14 07:55	
Bromoform	<1.4	50	57	114	59	118	66-130	3	20	ug/L	02.03.14 07:55	
Bromomethane	<2.7	50	40	80	41	82	59-141	2	20	ug/L	02.03.14 07:55	
Carbon disulfide	<0.73	50	39	78	38	76	47-144	3	20	ug/L	02.03.14 07:55	
Carbon tetrachloride	<0.89	50	45	90	45	90	46-155	0	20	ug/L	02.03.14 07:55	
Chlorobenzene	<0.59	50	52	104	51	102	81-114	2	20	ug/L	02.03.14 07:55	
Chloroethane	<0.23	50	45	90	49	98	63-133	9	20	ug/L	02.03.14 07:55	
Chloroform	<1.4	50	47	94	47	94	68-127	0	20	ug/L	02.03.14 07:55	
Chloromethane	<1.2	50	43	86	43	86	43-141	0	20	ug/L	02.03.14 07:55	
cis-1,2-Dichloroethene	<0.80	50	49	98	48	96	73-124	2	20	ug/L	02.03.14 07:55	
cis-1,3-Dichloropropene	<0.76	50	52	104	51	102	72-132	2	20	ug/L	02.03.14 07:55	
Cyclohexane	<0.99	50	39	78	40	80	58-125	3	20	ug/L	02.03.14 07:55	
Dibromochloromethane	<0.79	50	55	110	54	108	69-128	2	20	ug/L	02.03.14 07:55	
Dichlorodifluoromethane	<0.73	50	40	80	40	80	24-153	0	20	ug/L	02.03.14 07:55	
Ethylbenzene	<0.66	50	51	102	50	100	78-122	2	20	ug/L	02.03.14 07:55	
Isopropylbenzene	<1.0	50	51	102	51	102	71-131	0	20	ug/L	02.03.14 07:55	
m,p-Xylenes	<1.2	100	100	100	100	100	76-124	0	20	ug/L	02.03.14 07:55	
Methyl acetate	<0.15	50	54	108	55	110	65-135	2	20	ug/L	02.03.14 07:55	
Methyl tert-butyl ether	<0.62	100	100	100	100	100	59-135	0	20	ug/L	02.03.14 07:55	
Methylcyclohexane	<0.76	50	41	82	40	80	61-125	2	20	ug/L	02.03.14 07:55	
Methylene chloride	<0.92	50	51	102	50	100	64-135	2	20	ug/L	02.03.14 07:55	
Naphthalene	<4.0	50	60	120	60	120	46-159	0	20	ug/L	02.03.14 07:55	
o-Xylene	<0.57	50	52	104	51	102	78-124	2	20	ug/L	02.03.14 07:55	
Styrene	<0.56	50	53	106	52	104	79-123	2	20	ug/L	02.03.14 07:55	
Tetrachloroethene	<1.8	50	50	100	49	98	71-125	2	20	ug/L	02.03.14 07:55	
Toluene	<0.68	50	52	104	51	102	78-118	2	20	ug/L	02.03.14 07:55	
trans-1,2-Dichloroethene	<0.73	50	48	96	47	94	71-126	2	20	ug/L	02.03.14 07:55	
trans-1,3-Dichloropropene	<0.84	50	57	114	56	112	68-131	2	20	ug/L	02.03.14 07:55	
Trichloroethene	<0.72	50	49	98	48	96	76-118	2	20	ug/L	02.03.14 07:55	
Trichlorofluoromethane	<0.85	50	45	90	47	94	35-153	4	20	ug/L	02.03.14 07:55	
Vinyl chloride	<0.15	50	46	92	45	90	59-129	2	20	ug/L	02.03.14 07:55	

**Atlanta Environmental Management**  
Aramark - Dekalb Ave

**Analytical Method:** VOCs by SW-846 8260B

Seq Number: 933213

MB Sample Id: 650521-1-BLK

Matrix: Water

LCS Sample Id: 650521-1-BKS

Prep Method: SW5030B

Date Prep: 02.03.14

LCSD Sample Id: 650521-1-BSD

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	103		102		103		53-159	%	02.03.14 07:55
4-Bromofluorobenzene	103		104		104		30-186	%	02.03.14 07:55
Toluene-D8	107		106		106		70-130	%	02.03.14 07:55

**Atlanta Environmental Management**  
Aramark - Dekalb Ave

**Analytical Method:** VOCs by SW-846 8260B

Seq Number: 933213

Parent Sample Id: 478065-027

Matrix: Ground Water

MS Sample Id: 478065-027 S

Prep Method: SW5030B

Date Prep: 02.03.14

MSD Sample Id: 478065-027 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.34	50	43	86	47	94	63-149	9	20	ug/L	02.03.14 14:41	
1,1,2,2-Tetrachloroethane	<2.0	50	62	124	63	126	58-140	2	20	ug/L	02.03.14 14:41	
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.97	50	46	92	47	94	42-156	2	20	ug/L	02.03.14 14:41	
1,1,2-Trichloroethane	<0.88	50	56	112	57	114	49-140	2	20	ug/L	02.03.14 14:41	
1,1-Dichloroethane	<0.74	50	48	96	50	100	67-136	4	20	ug/L	02.03.14 14:41	
1,1-Dichloroethene	<0.98	50	45	90	47	94	52-141	4	20	ug/L	02.03.14 14:41	
1,2,3-Trichlorobenzene	<2.6	50	53	106	57	114	50-131	7	20	ug/L	02.03.14 14:41	
1,2,4-Trichlorobenzene	<1.3	50	50	100	55	110	51-125	10	20	ug/L	02.03.14 14:41	
1,2-Dibromo-3-chloropropane (DBCP)	<2.8	50	56	112	63	126	43-155	12	20	ug/L	02.03.14 14:41	
1,2-Dibromoethane (EDB)	<0.79	50	56	112	59	118	66-136	5	20	ug/L	02.03.14 14:41	
1,2-Dichlorobenzene	<0.73	50	52	104	55	110	70-124	6	20	ug/L	02.03.14 14:41	
1,2-Dichloroethane	<0.82	50	48	96	51	102	71-143	6	20	ug/L	02.03.14 14:41	
1,2-Dichloropropane	<0.81	50	50	100	53	106	74-125	6	20	ug/L	02.03.14 14:41	
1,3-Dichlorobenzene	<0.74	50	50	100	53	106	73-123	6	20	ug/L	02.03.14 14:41	
1,4-Dichlorobenzene	<0.59	50	50	100	53	106	74-116	6	20	ug/L	02.03.14 14:41	
2-Butanone (MEK)	<1.3	100	130	130	130	130	43-155	0	20	ug/L	02.03.14 14:41	
2-Hexanone	<2.5	100	140	140	140	140	52-148	0	20	ug/L	02.03.14 14:41	
4-Methyl-2-pentanone (MIBK)	<2.2	100	120	120	120	120	61-141	0	20	ug/L	02.03.14 14:41	
Acetone	<1.4	100	120	120	120	120	40-140	0	20	ug/L	02.03.14 14:41	
Benzene	<0.67	50	47	94	50	100	78-117	6	20	ug/L	02.03.14 14:41	
Bromochloromethane	<0.47	50	50	100	53	106	65-127	6	20	ug/L	02.03.14 14:41	
Bromodichloromethane	<0.96	50	49	98	51	102	71-133	4	20	ug/L	02.03.14 14:41	
Bromoform	<1.4	50	60	120	59	118	55-129	2	20	ug/L	02.03.14 14:41	
Bromomethane	<2.7	50	42	84	41	82	49-157	2	20	ug/L	02.03.14 14:41	
Carbon disulfide	<0.73	50	44	88	42	84	31-142	5	20	ug/L	02.03.14 14:41	
Carbon tetrachloride	<0.89	50	43	86	46	92	63-152	7	20	ug/L	02.03.14 14:41	
Chlorobenzene	<0.59	50	49	98	52	104	75-117	6	20	ug/L	02.03.14 14:41	
Chloroethane	<0.23	50	45	90	44	88	49-147	2	20	ug/L	02.03.14 14:41	
Chloroform	<1.4	50	46	92	50	100	67-136	8	20	ug/L	02.03.14 14:41	
Chloromethane	<1.2	50	43	86	46	92	35-162	7	20	ug/L	02.03.14 14:41	
cis-1,2-Dichloroethene	5.9	50	53	94	55	98	64-132	4	20	ug/L	02.03.14 14:41	
cis-1,3-Dichloropropene	<0.76	50	51	102	54	108	69-116	6	20	ug/L	02.03.14 14:41	
Cyclohexane	<0.99	50	41	82	41	82	59-141	0	20	ug/L	02.03.14 14:41	
Dibromochloromethane	<0.79	50	54	108	57	114	54-144	5	20	ug/L	02.03.14 14:41	
Dichlorodifluoromethane	<0.73	50	40	80	40	80	26-171	0	20	ug/L	02.03.14 14:41	
Ethylbenzene	<0.66	50	48	96	51	102	74-131	6	20	ug/L	02.03.14 14:41	
Isopropylbenzene	<1.0	50	48	96	50	100	63-133	4	20	ug/L	02.03.14 14:41	
m,p-Xylenes	<1.2	100	97	97	100	100	67-134	3	20	ug/L	02.03.14 14:41	
Methyl acetate	<0.15	50	56	112	57	114	65-135	2	20	ug/L	02.03.14 14:41	
Methyl tert-butyl ether	<0.62	100	100	100	110	110	51-156	10	20	ug/L	02.03.14 14:41	
Methylcyclohexane	<0.76	50	40	80	41	82	62-123	2	20	ug/L	02.03.14 14:41	
Methylene chloride	<0.92	50	48	96	50	100	52-165	4	20	ug/L	02.03.14 14:41	
Naphthalene	<4.0	50	58	116	61	122	31-151	5	20	ug/L	02.03.14 14:41	
o-Xylene	<0.57	50	49	98	51	102	70-125	4	20	ug/L	02.03.14 14:41	
Styrene	<0.56	50	50	100	54	108	42-145	8	20	ug/L	02.03.14 14:41	
Tetrachloroethene	<1.8	50	47	94	49	98	57-132	4	20	ug/L	02.03.14 14:41	
Toluene	<0.68	50	50	100	52	104	76-119	4	20	ug/L	02.03.14 14:41	
trans-1,2-Dichloroethene	<0.73	50	46	92	48	96	46-152	4	20	ug/L	02.03.14 14:41	
trans-1,3-Dichloropropene	<0.84	50	56	112	58	116	60-132	4	20	ug/L	02.03.14 14:41	
Trichloroethene	29	50	70	82	74	90	77-120	6	20	ug/L	02.03.14 14:41	
Trichlorofluoromethane	<0.85	50	45	90	47	94	47-165	4	20	ug/L	02.03.14 14:41	
Vinyl chloride	<0.15	50	47	94	47	94	43-148	0	20	ug/L	02.03.14 14:41	

**Atlanta Environmental Management**  
Aramark - Dekalb Ave

**Analytical Method:** VOCs by SW-846 8260B

Seq Number: 933213

Parent Sample Id: 478065-027

Matrix: Ground Water

MS Sample Id: 478065-027 S

Prep Method: SW5030B

Date Prep: 02.03.14

MSD Sample Id: 478065-027 SD

**Surrogate**

1,2-Dichloroethane-D4

4-Bromofluorobenzene

Toluene-D8

MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
104		103		53-159	%	02.03.14 14:41
104		103		30-186	%	02.03.14 14:41
107		107		70-130	%	02.03.14 14:41



- ☐ 3231 NW 7th Ave, Boca Raton, FL 33431 561-447-7373  
☐ 2505 Falkenburg Rd, Tampa, FL 33569 813-620-2000  
☒ 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800

## ANALYSIS REQUEST &amp; CHAIN OF CUSTODY RECORD

☐ Philadelphia/New Jersey 810-955-5649☐ South Carolina 803-543-8099☐ Other

Serial #: 264277

Page 1 of 1

Company-City <b>AEM</b>		Phone <b>404-329-9006</b>		Lab Only: <b>WO# 478156</b>											
Proj Name-Location <b>Aramark DeKalb Ave</b>		<input checked="" type="checkbox"/> Previously done at XENCO		Project ID <b>1133-1401-3</b>		TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.									
Proj State: AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, TX, UT Other		Proj. Manager (PM) <b>Leona M.iles</b>													
e-Mail Results to <input checked="" type="checkbox"/> PM or <b>Leona-M.iles@AEM-Net.com</b>		Fax No: <b>404-329-2057</b>													
Invoice to <input type="checkbox"/> Accounting <input checked="" type="checkbox"/> Inc. Invoice with Final Report <input type="checkbox"/> Invoice must have a P.O. Bill to:															
Quote/Pricing:		P.O No:		<input type="checkbox"/> Call for P.O.											
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA															
QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:															
Special DLs ( GW DW QAPP MDLs RLs See Lab PM Included Call PM )															
Sampler Name <b>Chad Crawley</b>		Signature													
Sample ID	Sampling Date	Time	Depth ft/in	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	Remarks				
1 MW-306	1-27-14	1120	1	W	X	X	2	40C	H	X					
2 MW-206	1-27-14	1245	1	W	X	X	2	40C	H	X					
3 Drum #3	1-27-14	1300	1	W	X	X	2	40C	H	X					
4 Trip Blank	1-27-14	—	1	W	—	—	2	40C	H	X					
5															
6															
7															
8															
9															
10															
Relinquished by (Initials and Sign)		Date & Time		Relinquished to (Initials and Sign)		Date & Time		Total Containers per COC: <b>2</b>				Cooler Temp: <b>1.9</b>			
1)		1-27-14 1518		2)		1-27-14 1518		Upon signings this COC you accept XENCO terms and Conditions unless otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved.							
3)				4)											
5)				6)											

Preservatives: Various (V), HCl pH&lt;2 (H), H2SO4 pH&lt;2 (S), HNO3 pH&lt;2 (N), Asbc Acid&amp;NaOH (A), ZnAc&amp;NaOH (Z), (Cool,&lt;4C) (C), None (NA), See Label (L), Other (O)

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other \_\_\_\_\_ Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)

Matrix: Air (A), Product (P), Solid(S), Water (W), Liquid (L)

Committed to Excellence in Service and Quality

www.xenco.com

Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.

**Client:** Atlanta Environmental Management

**Date/ Time Received:** 01/27/2014 03:18:00 PM

**Work Order #:** 478156

**Acceptable Temperature Range:** 0 - 6 degC

**Air and Metal samples Acceptable Range:** Ambient

**Temperature Measuring device used :**

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.9
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ?	N/A
#22 >10 for all samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH?	N/A

**\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

**Checklist completed by:**



Dario Lagunas

Date: 01/28/2014

**Checklist reviewed by:**



Eben Buchanan

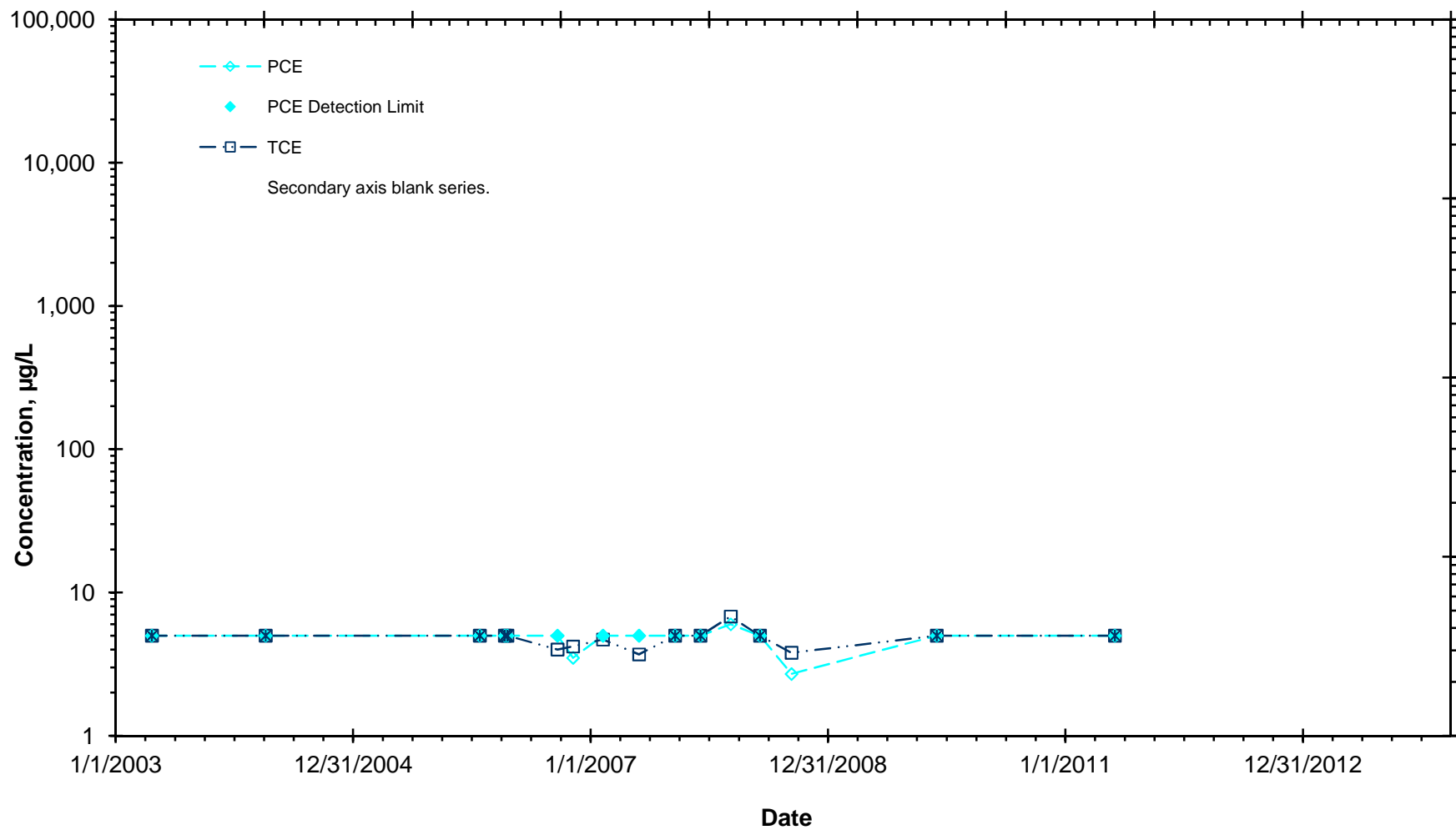
Date: 01/28/2014

---

# **ATTACHMENT F**

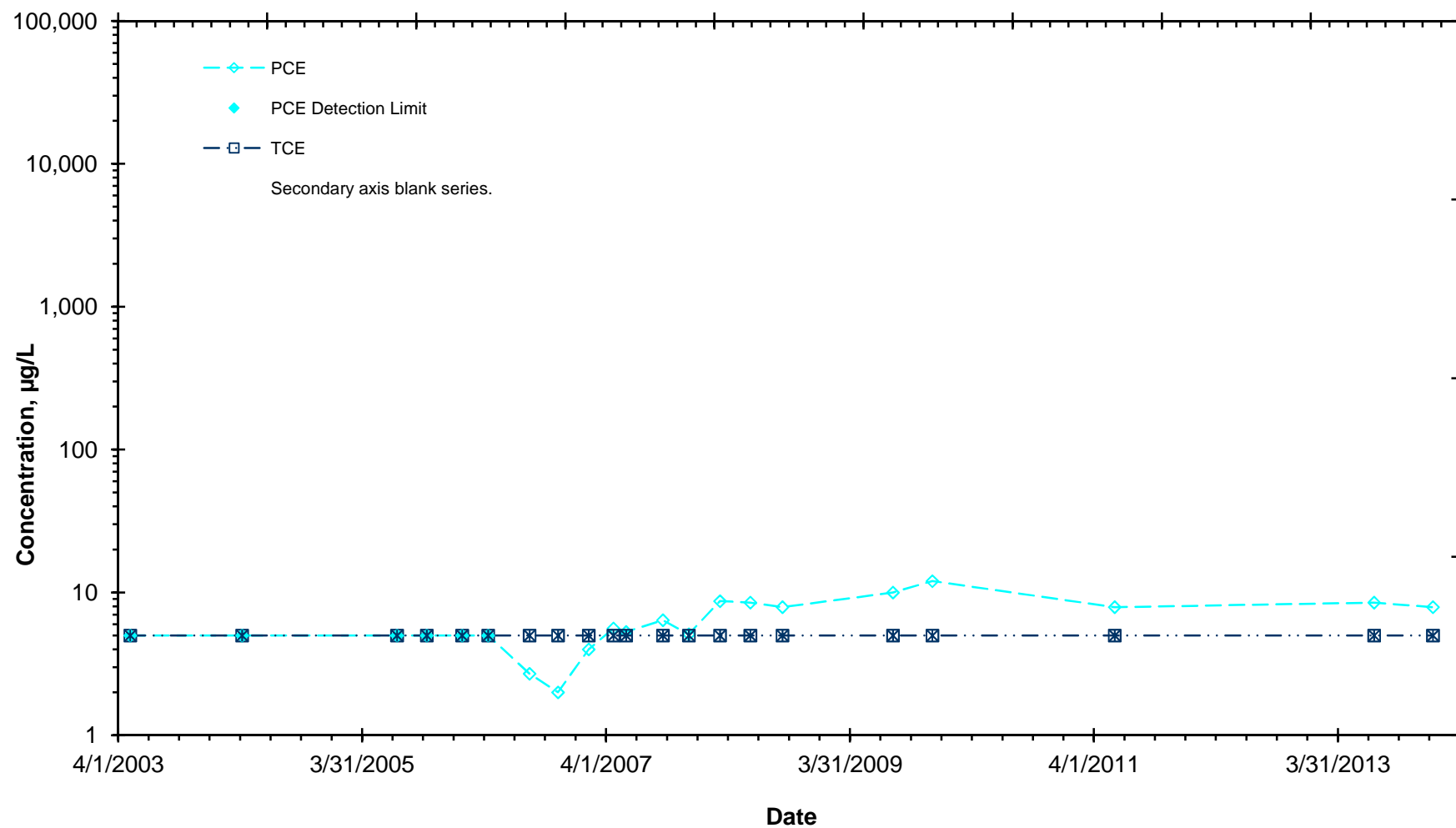
## **Time Trend Charts**

## PCE and TCE Concentrations vs Time, MW-203

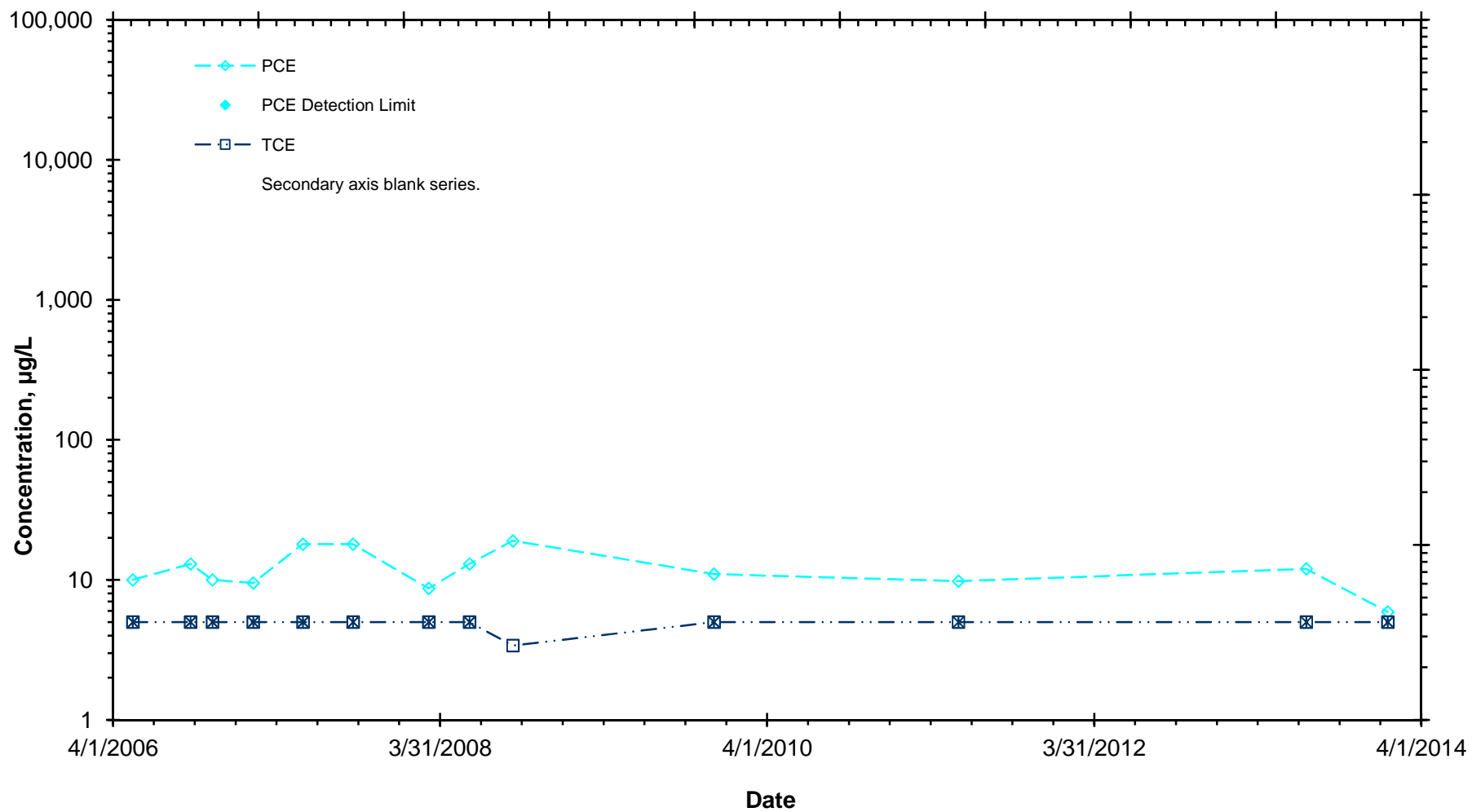




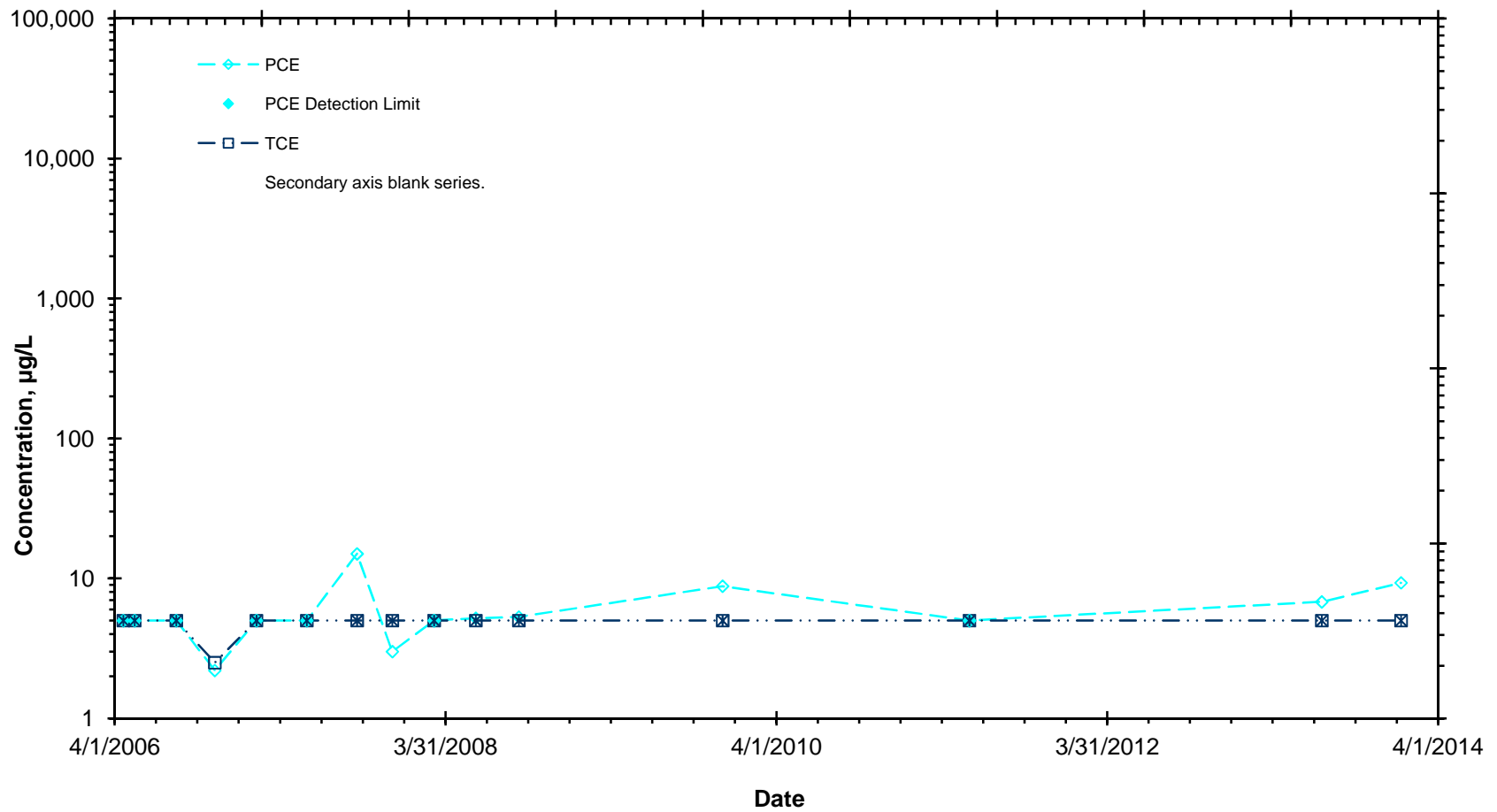
## PCE and TCE Concentrations vs Time, MW-204



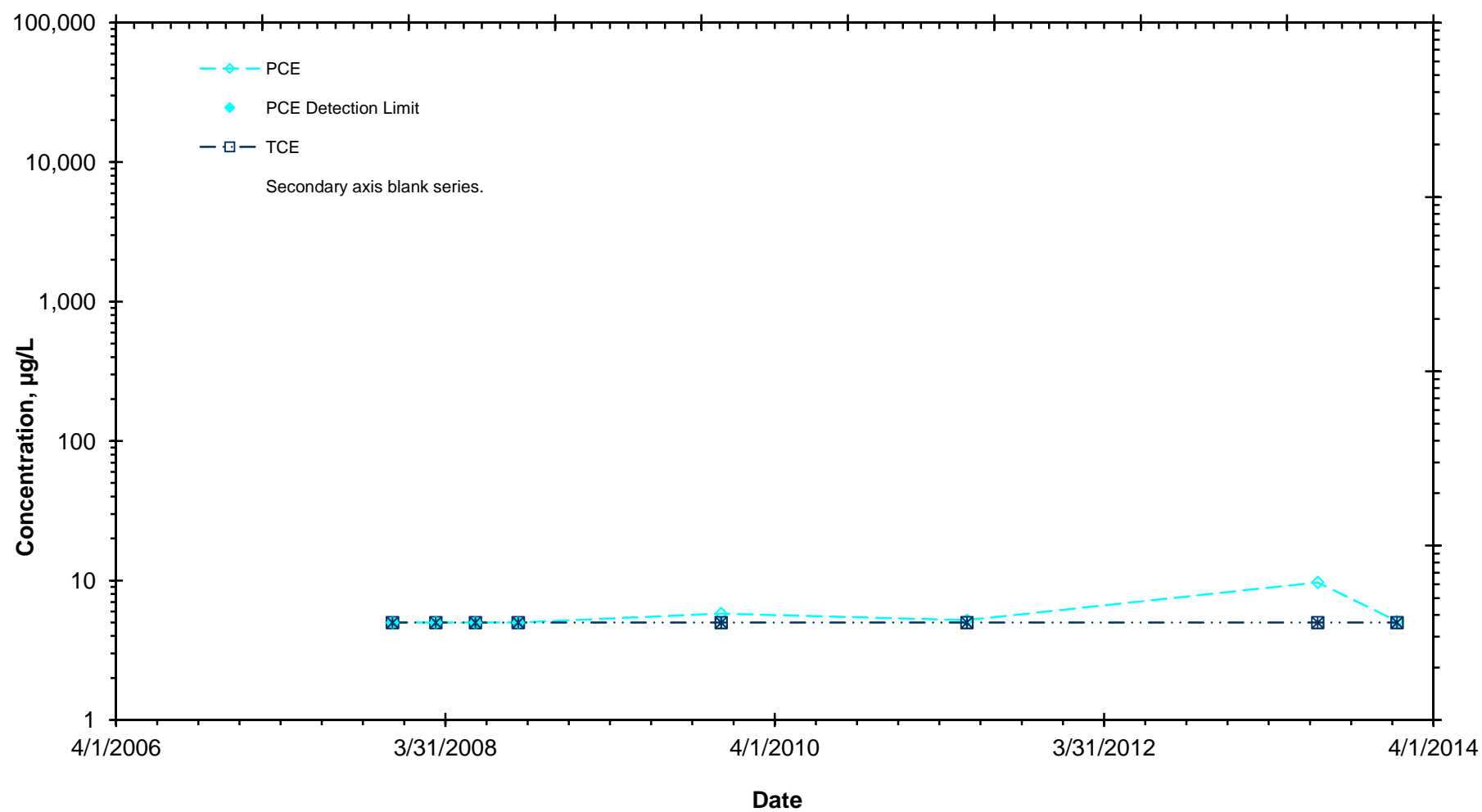
## PCE and TCE Concentrations vs Time, MW-207P



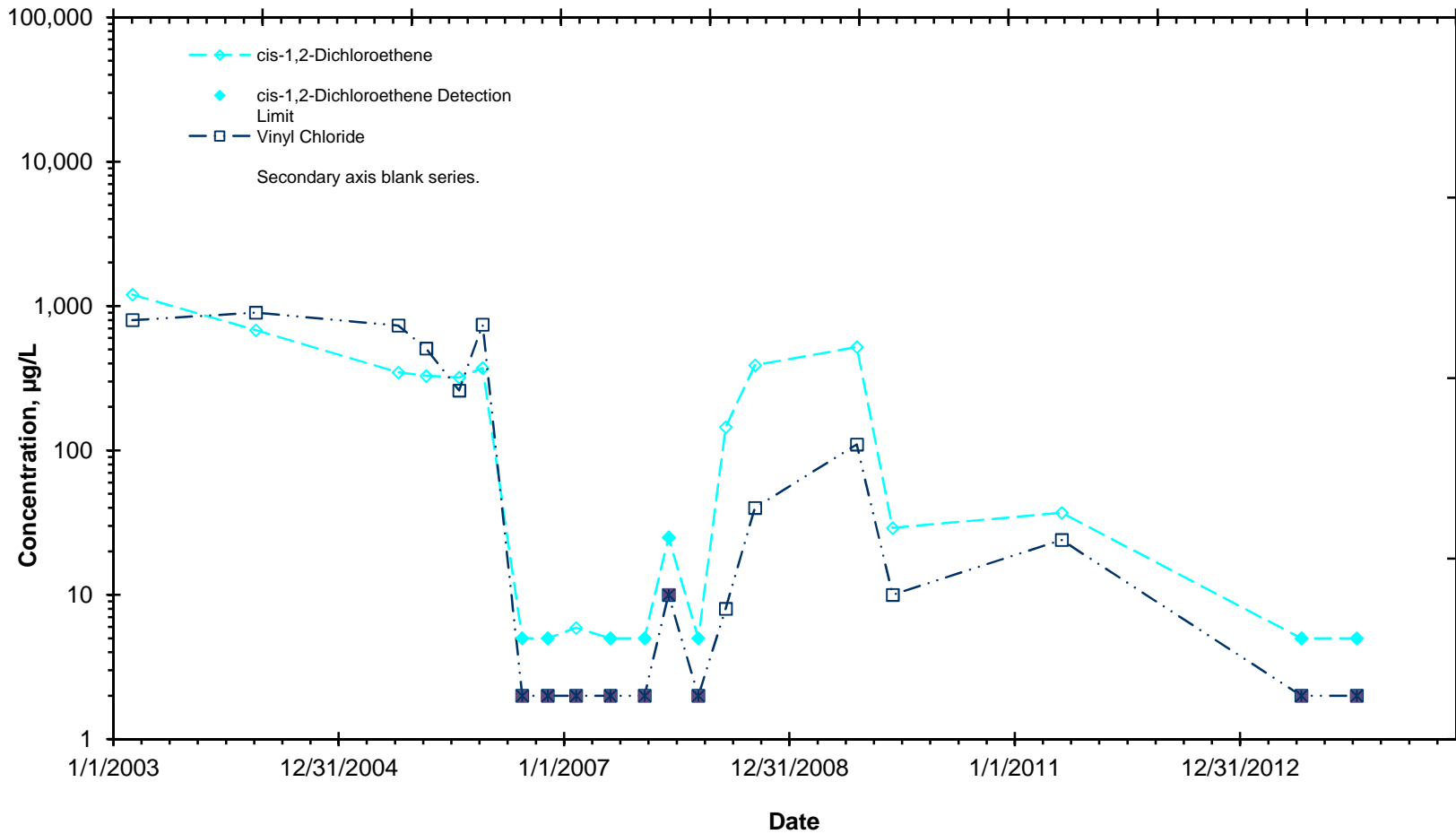
## PCE and TCE Concentrations vs Time, MW-208P



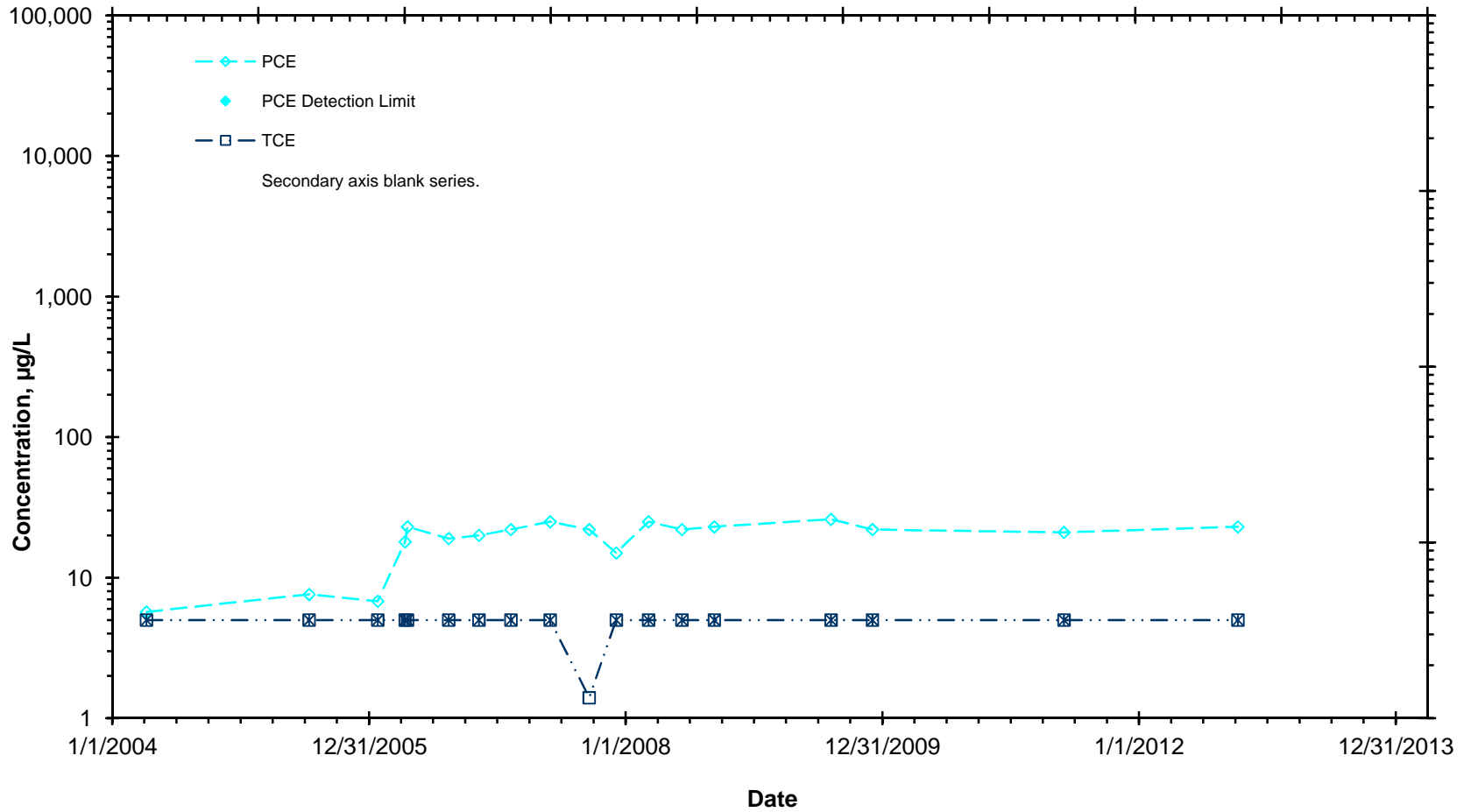
## PCE and TCE Concentrations vs Time, MW-409



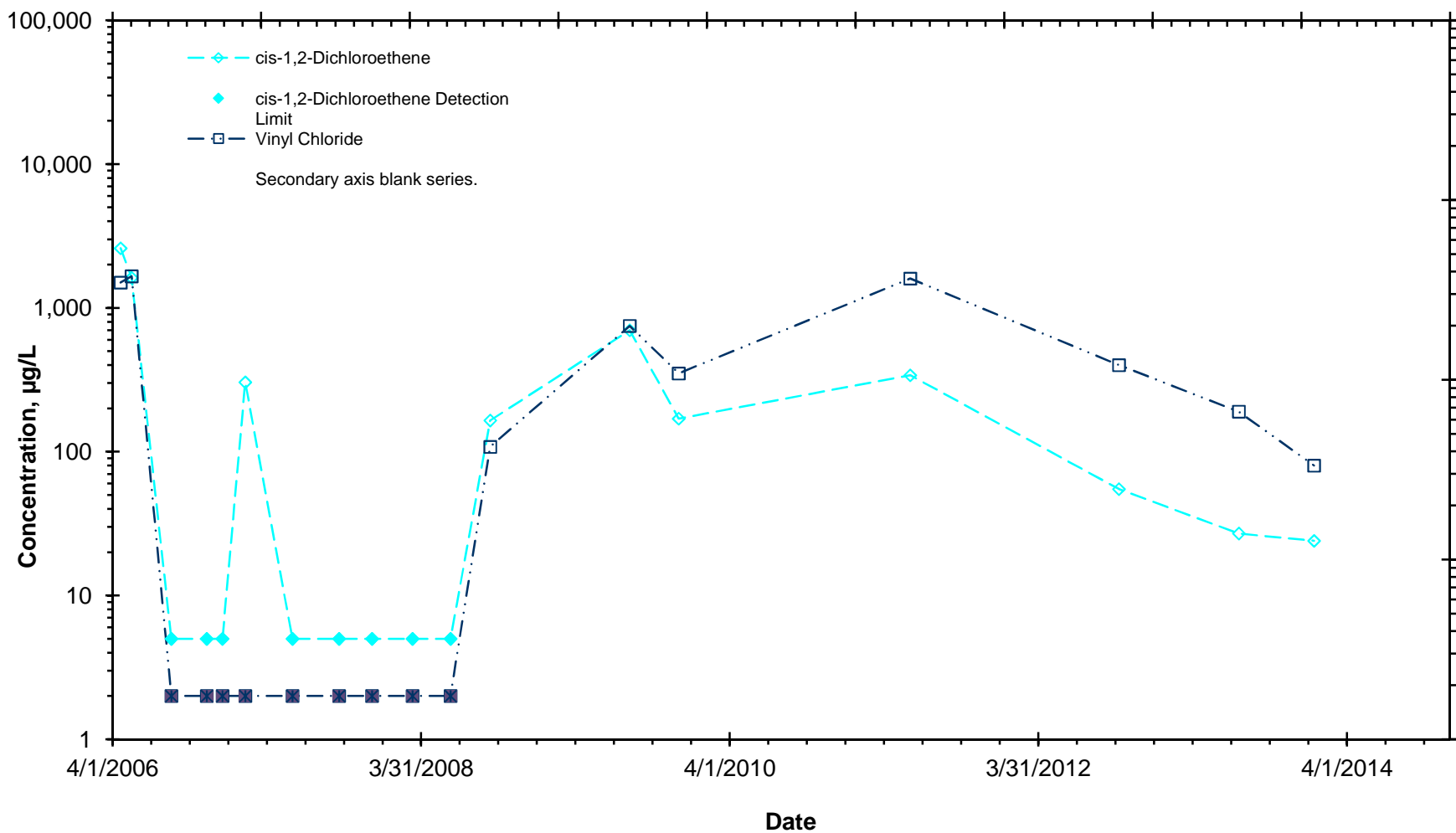
## cis-1,2-DCE and Vinyl Chloride Concentrations vs Time, MW-109



## PCE and TCE Concentrations vs Time, MW-205



## cis-1,2-DCE and Vinyl Chloride Concentrations vs Time, MW-403



---

# **ATTACHMENT G**

## **January 2014 Field Sampling Logs**



AEM Project:	ARAMARK DeKalb	AEM Job No.:	1133-1401-3	Well No.:	MW-109
Sampling Personnel:	Tony Gordon, Chad Crumbley, Neil Sargent			Date:	1/13/14
Comments:				Time In:	11:25
				Time Out:	13:18

Well Information		
Well Diameter:	2.0 inches	Reference Point Marked: <u>Yes</u> No
Depth to Water:	9.07 feet below T.O.C.	Well Depth: 24.71 feet below T.O.C.

Purging Information		Purging Equipment and Calibration Information	
Water Column: 15.67 ft	Purge Method (check): <input checked="" type="checkbox"/> Low Flow-Low Stress <input type="checkbox"/> Micro-purge	Bailer: <input type="checkbox"/> Teflon <input type="checkbox"/> Poly. Pump: <input type="checkbox"/> Grundfos <input checked="" type="checkbox"/> Peri. ID# P-8	
1 Well Volume= 2.5 gal	Purge Start Time: 1154	Pump Tubing Type: <input type="checkbox"/> Teflon <input checked="" type="checkbox"/> Teflon-Lined Poly. <input type="checkbox"/> Polyethylene	
3 Well Volume= 7.5 gal	Purge End Time: 1305	Meter(s) Used: <input checked="" type="checkbox"/> Hanna 991300 <input type="checkbox"/> YSI 556 <input checked="" type="checkbox"/> Lamotte 2020 ID#s 1/7	
Total Purged: 7.5 gal	Total Time: 71 min	Calibration Date/Time: 1000 1/13/14	
Well Purge Dry (?): yes/no	Purge Rate: 0.16 gpm	Comments:	

[illegible]

Sample Collection Parameters			
Sample Collection Method (check all): <input type="checkbox"/> Bailor <input checked="" type="checkbox"/> Straw Method <input type="checkbox"/> Pump Tubing <input type="checkbox"/> Vacuum Jug <input type="checkbox"/> Other			
Final Tubing/Pump Depth: <u>11.25</u> feet below T.O.C. (ft.)		Final Groundwater Depth (if applic.) <u>          </u> feet below T.O.C.	
Final Sample Turbidity: <u>          </u> NTUs		Ferrous Iron Concentration (if sampled): <u>          </u> mg/L	
Comments: <u>Very light yellow tint / clear sample no turbidity</u>			

Laboratory Analytical Information					
Sample ID	Analysis	Container	Qty.	Preservative	Time Sampled
mw - 109	VOCs (Method 8260B)	40 mL VOA Vials	2	HCL	1310

Sample Laboratory (circle): ACL/Xenco/AES/Other Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

Lonny J Gordon



AEM Project:	ARAMARK DeKalb	AEM Job No.: 1133-1401-3	Well No.: MW-111
Sampling Personnel:	Tony Gordon, Chad Crumbley, Neil Sargent		Date: 1/10/2014
Comments:			Time In: 1115 Time Out: 1230

Well Diameter: 2.0 inches      Reference Point Marked: ☒ Yes    ☐ No

Depth to Water: 10.35 feet below T.O.C.      Well Depth: 25.19 feet below T.O.C.

0.04 gal/ft in 1-inch-ID well
0.16 gal/ft in 2-inch-ID well
0.65 gal/ft in 4-inch-ID well

Water Column: 14.84 ft

1 Well Volume= 2.4 gal

3 Well Volume= 7.2 gal

Total Purged: 7.5 gal

Well Purge Dry (?): yes/no)

Purge  
Method  
(check):

☒ Low Flow-  
☒ Low Stress      ☐ Micro-purge

Purge Start Time: 1135

Purge End Time: 1222

Total Time: 47 min

Purge Rate: 0.16 gpm

Bailer: ☐ Teflon ☐ Poly. Pump: ☐ Grundfos ☒ Peri. ID# 10-12

Pump Tubing Type: ☐ Teflon ☒ Teflon-Lined Poly. ☐ Polyethylene

Meter(s) Used: ☒ Hanna 991300 ☐ YSI 556 ☒ Lamotte 2020 ID#s 7/9

Calibration Date/Time: 0945 1/10/15

Comments: *Clean Pick up*

	Gallons	Temp.	Cond.	pH	Oxygen	ORP	Turbidity	Water Level
Time	Purged	Deg. Cel	µS/cm	SU	mg/L	mV	NTUs	ft. from TOC
1152	2.5	14.1 <sup>0</sup>	284	4.54	—	—	2.25	10.85
1158	3.5	15.0 <sup>0</sup>	282	4.57	—	—	2.90	10.70
1204	4.5	15.0 <sup>0</sup>	271	4.58	—	—	2.16	10.73
1210	5.5	15.0 <sup>0</sup>	265	4.63	—	—	1.41	10.75
1216	6.5	15.2 <sup>0</sup>	265	4.57	—	—	1.27	10.75
1222	7.5	15.3 <sup>0</sup>	265	4.59	—	—	1.20	10.75
Stabilization Info:		N/A	+/- 5%	+/- 0.1 SU	-----	-----	<10 NTUs	-----

Sample Collection Method (check all): ☐ Bailor ☒ Straw Method ☐ Pump Tubing ☐ Vacuum Jug ☐ Other

Final Tubing/Pump Depth: 0.170 feet below T.O.C. Final Groundwater Depth(if applic.) 10.75 feet below T.O.C.

Final Sample Turbidity: 1.20 NTUS Ferrous Iron Concentration (if sampled): NA mg/L

Comments: clear sample, no odor

Sample ID	Analysis	Container	Qty.	Preservative	Time Sampled
mw-11)	VOCs (Method 8260B)	40 mL VOA Vials	2	HCL	1225

Sample Laboratory (circle): ACL/Xenco/AES/Other

Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

**Field Personnel Signature:**

Tom & Cordis

# AEM Groundwater Sampling Field Log

AEM Project: ARAMARK DeKalb AEM Job No.: 1133-1401-3 Well No.: MW-202  
 Sampling Personnel: Tony Gordon, Chad Crumbley, Neil Sargent Date: 1-10-14  
 Comments: Cloudy (slight mist) / 1001 Time In: 0918 Time Out: 1103

## Well Information

Well Diameter: 2.0 inches Reference Point Marked: Yes No  
 Depth to Water: 6.54 feet below T.O.C. Well Depth: 21.53 feet below T.O.C.

0.04 gal/ft in 1-inch-ID well  
 0.16 gal/ft in 2-inch-ID well  
 0.65 gal/ft in 4-inch-ID well

## Purging Information

Water Column: 15.09 ft

Purge Method (check): ☒ Low Flow-Low Stress ☐ Micro-purge

## Purging Equipment and Calibration Information

Bailer: ☐ Teflon ☐ Poly. Pump: ☐ Grundfos ☒ Peri. ID# P-7

2.41 1 Well Volume= 2.42 gal

Purge Start Time: 0931

Pump Tubing Type: ☐ Teflon ☒ Teflon-Lined Poly. ☐ Polyethylene

7.24 3 Well Volume= 7.28 gal

Purge End Time: 1044

Meter(s) Used: ☒ Hanna 991300 ☐ YSI 556 ☒ Lamotte 2020 ID#s 3, 4

Total Purged: 7.50 gal

Total Time: 63 min

Calibration Date/Time: 1-10-14 0910

Well Purge Dry (?): yes (no)

Purge Rate: .12 gpm

Comments:

## Groundwater Field Parameters

Time	Gallons Purged	Temp. Deg. Cel	Cond. µS/cm	pH SU	Dissolved Oxygen mg/L	ORP mV	Turbidity NTUs	Water Level ft. from TOC
0941	1.0	15.1	503	6.83	—	—	2.62	9.70
0952	2.0	14.8	469	6.69	—	—	2.14	9.81
1003	3.0	14.7	462	6.67	—	—	2.29	9.93
1016	4.0	14.8	459	6.63	—	—	2.11	10.01
1026	6.0	14.3	462	6.65	—	—	2.19	10.01
1044	7.50	13.9	466	6.68	—	—	2.01	10.01

Stabilization Info: N/A +/- 5% +/- 0.1 SU ----- <10 NTUs -----

## Sample Collection Parameters

Sample Collection Method (check all): ☐ Bailer ☒ Straw Method ☐ Pump Tubing ☐ Vacuum Jug ☐ Other

Final Tubing/Pump Depth: 210.05 feet below T.O.C

Final Groundwater Depth(if applic.) 10.01 feet below T.O.C

Final Sample Turbidity: 2.01 NTUs

Ferrous Iron Concentration (if sampled): mg/L

Comments:

## Laboratory Analytical Information

Sample ID	Analysis	Container	Qty.	Preservative	Time Sampled
MW-202	VOCs (Method 8260B)	40 mL VOA Vials	2	HCL	1049

Sample Laboratory (circle): ACL/Xencon/AES/Other

Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

Field Personnel Signature:

AEM Project:	ARAMARK DeKalb	AEM Job No.:	1133-1401-3	Well No.:	MW-204
Sampling Personnel:	Tony Gordon, Chad Crumbley, Neil Sargent			Date:	1-10-14
Comments:				Time In:	1450
				Time Out:	1620

Well Diameter: 2.0 inches      Reference Point Marked: ☒ Yes    ☐ No

Depth to Water: 12.77 feet below T.O.C.      Well Depth: 22.70 feet below T.O.C.

0.65 gal/ft in 4-inch-ID well

## Well Purge Dry (?): yes/no

☒ Low Flow-  
Low Stress    ☐ Micro-  
purge

Purge Rate: .08 gpr

## Comments:

	Gallons	Temp.	Cond.	pH	Oxygen	ORP	Turbidity	Water Level
Time	Purged	Deg. Cel	µS/cm	SU	mg/L	mV	NTUs	ft. from TOC

1514	<del>1241</del>	1.0	15.1	<del>267</del> <del>265</del>	4.76	—	3.70	12.54
	1525	2.0	14.9	260	4.87	—	3.04	13.07
	1537	3.0	14.2	263	4.89	—	2.22	13.07
	1550	4.0	14.2	263	4.92	—	1.16	13.07

Stabilization Info:	N/A	+/- 5%	+/- 0.1 SU	*****	*****	<10 NTUs	*****
---------------------	-----	--------	------------	-------	-------	----------	-------

## Comments:

Sample ID	Analysis	Container	Qty.	Preservative	Time Sampled
MW. 204	VOCs (Method 8260B)	40 mL VOA Vials	2	HCL	1608

Sample Laboratory (circle): ACL/Xenon/AES/Other      Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

**Field Personnel Signature:**

AEM Project:	ARAMARK DeKalb	AEM Job No.: 1133-1401-3	Well No.: MW-206
Sampling Personnel:	<del>Tony Gordon</del> , Chad Crumbley, Neil Sargent		Date: 1-27-14
Comments:			Time In: 1141 Time Out: 1252

Well Diameter: 2.0 inches      Reference Point Marked: ☒ Yes    ☐ No

Depth to Water: 2.50 feet below T.O.C.      Well Depth: 14.20 feet below T.O.C.

0.65 gal/ft in 4-inch-ID well

## Well Purge Dry (?): yes/no

Purge Rate: 10 gpm

Calibration Date/Time: 1-27-14 0945

	Gallons	Temp.	Cond.	pH	Oxygen	ORP	Turbidity	Water Level
Time	Purged	Deg. Cel	µS/cm	SU	mg/L	mV	NTUs	ft. from TOC
1158	1.0	17.2	412	5.13	—	—	3.21	5.02
1209	2.0	16.8	389	5.01	—	—	2.71	7.13
1218	3.0	16.9	381	4.93	—	—	1.99	7.19
1227	4.0	16.7	382	4.90	—	—	2.19	7.20
1238	5.0	16.4	388	4.88	—	—	2.21	7.22
1242	5.25	16.5	386	4.83	—	—	2.27	7.22

Stabilization Info:	N/A	+/- 5%	+/- 0.1 SU	****	****	<10 NTUs	****
---------------------	-----	--------	------------	------	------	----------	------

Ferrous Iron Concentration (if sampled): — mg/L

Comments:

Sample ID	Analysis	Container	Qty.	Preservative	Time Sampled
MW-206	VOCs (Method 8260B)	40 mL VOA Vials	2	HCL	1245

Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

**Field Personnel Signature:**

12/30/2013, 1:44 PM, CURRENT-SamplingFieldLog-Oct2011, ARAMARK DeKalb (2), Page 1 of 1.

AEM Project:	ARAMARK DeKalb	AEM Job No.:	1133-1401-3	Well No.:	mw-207P
Sampling Personnel:	Tony Gordon, Chad Crumbley, Neil Sargent			Date:	1/16/2014
Comments:				Time In:	1340
				Time Out:	1500

0.04 gal/ft in 1-inch-ID well
0.16 gal/ft in 2-inch-ID well
0.65 gal/ft in 4-inch-ID well

Comments: Clear purge water

AEM Project:	ARAMARK DeKalb	AEM Job No.: 1133-1401-3	Well No.:	MW-208P
Sampling Personnel:	Tony Gordon, Chad Crumbley, Neil Sargent		Date:	1-9-2014
Comments:	Cloudy (slight mist) / cold		Time In:	1546
			Time Out:	1645

[illegible]

Laboratory Analytical Information					
Sample ID	Analysis	Container	Qty.	Preservative	Time Sampled
MW-2089	VOCs (Method 8260B)	40 mL VOA Vials	2	HCL	1633

Field Personnel Signature: \_\_\_\_\_



AEM Project:	ARAMARK DeKalb	AEM Job No.:	1133-1401-3	Well No.:	MW-210
Sampling Personnel:	Tony Gordon, Chad Crumbley, Neil Sargent			Date:	1/9/2014
Comments:				Time In:	4:00
				Time Out:	1:40

0.04 gal/ft in 1-inch-ID well
0.16 gal/ft in 2-inch-ID well
0.65 gal/ft in 4-inch-ID well

Bailer: ☐ Teflon ☐ Poly. Pump: ☐ Grundfos ☒ Peri. ID# P-8

Pump Tubing Type: ☐ Teflon ☒ Teflon-Lined Poly. ☐ Polyethylene

Meter(s) Used: ☒ Hanna 991300 ☐ YSI 556 ☒ Lamotte 2020 ID#s 7/19

Calibration Date/Time: 1/9/2013 (1330)

Comments: clean purge water, no flow

AEM Project:	ARAMARK DeKalb	AEM Job No.:	1133-1401-3	Well No.:	mw-211
Sampling Personnel:	Tony Gordon, Chad Crumbley, Neil Sargent			Date:	1/9/2014
Comments:				Time In:	1550
				Time Out:	1720

Well Diameter: 2.0 inches      Reference Point Marked: ☒ Yes    ☐ No

---

Depth to Water: 11.76 feet below T.O.C.      Well Depth: 23.35 feet below T.O.C.

0.04 gal/ft in 1-inch-ID well
0.16 gal/ft in 2-inch-ID well
0.65 gal/ft in 4-inch-ID well

Water Column: 11.59 ft

1 Well Volume = 1.75 gal

3 Well Volume = 5.25 gal

Total Purged: gal

Well Purge Dry (?): yes (no)

Purge  
Method  
(check):

☒ Low Flow-  
Low Stress      ☐ Micro-  
purge

Purge Start Time: 1600

Purge End Time:

Total Time: \_\_\_\_\_ min

Purge Rate: gpm

Bailer: ☐ Teflon ☐ Poly. Pump: ☐ Grundfos ☒ Peri. ID# P.E

Pump Tubing Type: ☐ Teflon ☒ Teflon-Lined Poly. ☐ Polyethylene

Meter(s) Used: ☒ Hanna 991300 ☐ YSI 556 ☒ Lamotte 2020 ID#s 7/8

Calibration Date/Time: 1330 1/9/2014

Comments:

	Gallons	Temp.	Cond.	pH	Oxygen	ORP	Turbidity	Water Level
Time	Purged	Deg. Cel	µS/cm	SU	mg/L	mV	NTUs	ft. from TOC
1624	2.0	13.3°	1019	6.93	—	—	6.34	11.97
1635	3.0	13.7°	966	7.02	—	—	5.73	12.00
1645	4.0	13.7°	965	7.03	—	—	6.86	12.04
1655	5.0	13.5°	968	7.05	—	—	5.64	12.05
1658	5.25	13.5°	965	7.05	—	—	5.15	12.06
Stabilization Info:								
	N/A	+/- .5%	+/- 0.1 SU	-----	-----	<10 NTUs	-----	

Sample Collection Method (check all): ☐ Bailor ☒ Straw Method ☐ Pump Tubing ☐ Vacuum Jug ☐ Other

Final Tubing/Pump Depth: 12.4 feet below T.O.C. Final Groundwater Depth(if applic.) 12.06 feet below T.O.C

Final Sample Turbidity: NTUs Ferrous Iron Concentration (if sampled): NA mg/L

Comments: Weak H<sub>2</sub>S odor, clear sample

Sample ID	Analysis	Container	Qty.	Preservative	Time Sampled
mw-211	VOCs (Method 8260B)	40 mL VOA Vials	2	HCL	1700

Sample Laboratory (circle): ACL/Xenco/AES/Other      Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

**Field Personnel Signature:**

Henry J. Gardner

# AEM Groundwater Sampling Field Log

AEM Project: ARAMARK DeKalb AEM Job No.: 1133-1401-3 Well No.: MW-212  
 Sampling Personnel: Tony Gordon, Chad Crumbley, Neil Sargent Date: 1-13-14  
 Comments: Sunny / 100 Time In: 1147 Time Out: 1337

## Well Information

Well Diameter: 2.0 inches Reference Point Marked: Yes No  
 Depth to Water: 9.91 feet below T.O.C. Well Depth: 19.85 feet below T.O.C.

0.04 gal/ft in 1-inch-ID well  
 0.16 gal/ft in 2-inch-ID well  
 0.65 gal/ft in 4-inch-ID well

## Purging Information

Purge Method (check): ☒ Low Flow- Low Stress ☐ Micro-purge  
 Water Column: 9.94 ft  
 1 Well Volume: 1.59 gal  
 3 Well Volume: 4.77 gal  
 Total Purged: 5.00 gal  
 Well Purge Dry (?): yes (no)  
 Purge Start Time: 1204  
 Purge End Time: 1319  
 Total Time: 65 min  
 Purge Rate: .08 gpm

## Purging Equipment and Calibration Information

Bailer: ☐ Teflon ☐ Poly. Pump: ☐ Grundfos ☒ Peri ID# P-7  
 Pump Tubing Type: ☐ Teflon ☒ Teflon-Lined Poly. ☐ Polyethylene  
 Meter(s) Used: ☒ Hanna 991300 ☐ YSI 556 ☒ Lamotte 2020 ID#s 3, 11  
 Calibration Date/Time: 1-13-14 0940  
 Comments:

## Groundwater Field Parameters

Time	Gallons Purged	Temp. Deg. Cel	Cond. µS/cm	pH SU	Dissolved Oxygen mg/L	ORP mV	Turbidity NTUs	Water Level ft. from TOC
1220	1.0	14.9	1019	10.18			8.73	11.35
1233	2.0	16.1	1022	10.85			14.12	12.33
1250	3.0	16.5	1835	9.27			14.30	13.20
1305	4.0	16.4	1830	9.33			10.47	13.96
1311	4.5	16.1	1836	9.32			8.11	14.41
1319	5.0	15.8	1839	9.36			8.78	14.61

\* High pH likely due to portland cement used to stabilize back-fill in area.

\* purge water produces a foam like substance on surface when agitated.

Stabilization Info: N/A +/- 5% +/- 0.1 SU ----- <10 NTUs -----

## Sample Collection Parameters

Sample Collection Method (check all): ☐ Bailer ☒ Straw Method ☐ Pump Tubing ☐ Vacuum Jug ☐ Other  
 Final Tubing/Pump Depth: 14.70 feet below T.O.C. Final Groundwater Depth (if applic.): 14.6 feet below T.O.C.  
 Final Sample Turbidity: 8.78 NTUs Ferrous Iron Concentration (if sampled): mg/L  
 Comments:

## Laboratory Analytical Information

Sample ID	Analysis	Container	Qty.	Preservative	Time Sampled
MW-212	VOCs (Method 8260B)	40 mL VOA Vials	2	HCL	1322

Sample Laboratory (circle): ACL Xenco/AES/Other Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

Field Personnel Signature:

AEM Project:	ARAMARK DeKalb	AEM Job No.:	1133-1401-3	Well No.:	MW-213
Sampling Personnel:	Tony Gordon, Chad Crumbley, Neil Sargent			Date:	1-13-14
Comments:	Sunny / Cool			Time In:	0947
				Time Out:	1145

[illegible]

Laboratory Analytical Information					
Sample ID	Analysis	Container	Qty.	Preservative	Time Sampled
Mw-213	VOCs (Method 8260B)	40 mL VOA Vials	2	HCL	1120
Mw-213 Dup	" "	" "	2	"	1120

Sample Laboratory (circle): ACL/Xenco/AES/Other      Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

12/30/2013, 1:44 PM, CURRENT-SamplingFieldLog-Oct2011, ARAMARK DeKalb (2), Page 1 of 1.



AEM Project:	ARAMARK DeKalb	AEM Job No.:	1133-1401-3	Well No.:	MW-214
Sampling Personnel:	Tony Gordon, Chad Crumbley, Neil Sargent			Date:	1/10/14
Comments:				Time In:	1330
				Time Out:	1545

Well Diameter: 2.0 inches      Reference Point Marked: ☒ Yes    ☐ No

Depth to Water: 69.1 feet below T.O.C.      Well Depth: 73.25 feet below T.O.C.

0.65 gal/ft in 4-inch-ID well

Well Purge Dry (?): yes/no

☒ Low Flow-  
Low Stress    ☐ Micro-  
purge

Purge Rate: 0.50 gpm

Comments: *chem purge water*

[illegible]

Comments: deep sample, no odor

Sample ID	Analysis	Container	Qty.	Preservative	Time Sampled
MW-214	VOCs (Method 8260B)	40 mL VOA Vials	2	HCL	1525

Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

Long 2 Gordon

AEM Project:	ARAMARK DeKalb	AEM Job No.: 1133-1401-3	Well No.: MW-306
Sampling Personnel:	Tony Gordon, Chad Crumley, Neil Sargent		Date: 1-27-13
Comments:			Time In: 1001 Time Out: 1130

<b>Well Information</b> Well Diameter: <u>2.0</u> inches      Reference Point Marked: <u>(Yes)</u> No Depth to Water: <u>6.31</u> feet below T.O.C.      Well Depth: <u>30.25</u> feet below T.O.C.		0.04 gal/ft in 1-inch-ID well 0.16 gal/ft in 2-inch-ID well 0.65 gal/ft in 4-inch-ID well
<b>Purging Information</b> Water Column: <u>23.94</u> ft 1 Well Volume = <u>3.83</u> gal 3 Well Volume = <u>11.49</u> gal Total Purged: <u>12.02</u> gal Well Purge Dry (?): yes <u>(no)</u> <div>           Purge Method (check): <input checked="" type="checkbox"/> Low Flow-Low Stress    <input type="checkbox"/> Micro-purge         </div> Purge Start Time: <u>10:07</u> Purge End Time: <u>11:17</u> Total Time: <u>70</u> min Purge Rate: <u>.17</u> gpm		<b>Purging Equipment and Calibration Information</b> Bailer: <input type="checkbox"/> Teflon <input type="checkbox"/> Poly.    Pump: <input type="checkbox"/> Grundfos <input checked="" type="checkbox"/> Peri.    ID# <u>P-8</u> Pump Tubing Type: <input type="checkbox"/> Teflon <input checked="" type="checkbox"/> Teflon-Lined Poly. <input type="checkbox"/> Polyethylene Meter(s) Used: <input checked="" type="checkbox"/> Hanna 991300 <input type="checkbox"/> YSI 556 <input checked="" type="checkbox"/> Lamotte 2020    ID#s <u>3, 11</u> Calibration Date/Time: <u>1-27-13 0942</u> Comments:

[illegible]

Sample Collection Parameters	
Sample Collection Method (check all):	<input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Straw Method <input type="checkbox"/> Pump Tubing <input type="checkbox"/> Vacuum Jug <input type="checkbox"/> Other
Final Tubing/Pump Depth: <u>~ 7.00</u>	feet below T.O.C
Final Sample Turbidity: <u>1.97</u>	NTUs
Final Groundwater Depth (if applic.): <u>6.92</u>	feet below T.O.C
Ferrous Iron Concentration (if sampled): <u>—</u>	mg/L
Comments:	

Laboratory Analytical Information					
Sample ID	Analysis	Container	Qty.	Preservative	Time Sampled
MW-306	VOCs (Method 8260B)	40 mL VOA Vials	2	HCL	1120

Sample Laboratory (circle): ACL/Xenco/AES/Other Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

**Field Personnel Signature:**

12/30/2013, 1:44 PM, CURRENT-SamplingFieldLog-Oct2011, ARAMARK DeKalb (2), Page 1 of 1.

AEM Project:	ARAMARK DeKalb	AEM Job No.:	1133-1401-3	Well No.:	Mh-401
Sampling Personnel:	<del>Tony Gordon, Chad Crumbley, Neil Sargent</del>			Date:	1-9-14
Comments:	Cloudy / Cool			Time In:	1246
				Time Out:	1416

Well Diameter: 2.0 inches      Reference Point Marked: ☒ Yes    ☐ No

Depth to Water: 6.11 feet below T.O.C.      Well Depth: 15.72 feet below T.O.C.

0.04 gal/ft in 1-inch-ID well
0.16 gal/ft in 2-inch-ID well
0.65 gal/ft in 4-inch-ID well

## Comments:

[illegible]

Sample Collection Method (check all): ☐ Bailor ☒ Straw Method ☐ Pump Tubing ☐ Vacuum Jug ☐ Other

Final Tubing/Pump Depth: 26.35 feet below T.O.C

Final Groundwater Depth (if applic.) 6.33 feet below T.O.C

Final Sample Turbidity: 7.21 NTUs

Ferrous Iron Concentration (if sampled): \_\_\_\_\_ mg/L

Comments:

Sample ID	Analysis	Container	Qty.	Preservative	Time Sampled
Mw-401	VOCs (Method 8260B)	40 mL VOA Vials	2	HCL	1401

Sample Laboratory (circle): ACL/Xencd/AES/Other      Delivery Method: (Hand Delivery/Fed-Ex/UPS/Other)

12/30/2013, 1:44 PM, CURRENT-SamplingFieldLog-Oct2011, ARAMARK DeKalb (2), Page 1 of 1.

AEM Project:	ARAMARK DeKalb	AEM Job No.:	1133-1401-3	Well No.:	MW-402
Sampling Personnel:	Tony Gordon, Chad Crumbley, Neil Sargent			Date:	1/13/14
Comments:				Time In:	1026
				Time Out:	1125

Well Diameter: 2.0 inches      Reference Point Marked: ☒ Yes    ☐ No

Depth to Water: 12.59 feet below T.O.C.      Well Depth: 19.33 feet below T.O.C.

0.04 gal/ft in 1-inch-ID well
0.16 gal/ft in 2-inch-ID well
0.65 gal/ft in 4-inch-ID well

Water Column: 6.74 ft

1 Well Volume= 1.1 gal

3 Well Volume= 3.3 gal

Total Purged: 3.5 gal

Well Purge Dry (?): yes/no

Purge  
Method  
(check):

☒ Low Flow-  
Low Stress      ☐ Micro-  
purge

Purge Start Time: 1032

Purge End Time: 1113

Total Time: 41 min

Purge Rate: 0.07 gpm

Bailer: ☐ Teflon ☐ Poly. Pump: ☐ Grundfos ☒ Peri. ID# 28

Pump Tubing Type: ☐ Teflon ☒ Teflon-Lined Poly. ☐ Polyethylene

Meter(s) Used: ☒ Hanna 991300 ☐ YSI 556 ☒ Lamotte 2020 ID#s 1/7

Calibration Date/Time: 1000 1/13/17

Comments: clear purge water, no odor

	Gallons	Temp.	Cond.	pH	Oxygen	ORP	Turbidity	Water Level
Time	Purged	Deg. Cel	µS/cm	SU	mg/L	mV	NTUs	ft. from TOC
1046	1.0	16.3°	300	5.49	—	—	7.57	12.85
1052	1.5	16.4°	302	5.61	—	—	5.26	12.87
1056	2.0	16.2°	308	5.68	—	—	4.02	12.89
1102	2.5	16.4°	303	5.69	—	—	4.08	12.90
1107	3.0	16.3°	303	5.72	—	—	2.70	12.91
1113	3.5	16.3°	306	5.70	—	—	2.08	12.91
<b>Stabilization Info:</b>		N/A	+/- 5%	+/- 0.1 SU	-----	-----	<10 NTUs	-----

Sample Collection Method (check all): ☐ Bailer ☒ Straw Method ☐ Pump Tubing ☐ Vacuum Jug ☐ Other

Final Tubing/Pump Depth: 13.2 feet below T.O.C. Final Groundwater Depth (if applic.): 12-91 feet below T.O.C.

Final Sample Turbidity: 2.08 NTUs Ferrous Iron Concentration (if sampled): N/A mg/L

Comments: clear sample, no odor

Sample ID	Analysis	Container	Qty.	Preservative	Time Sampled
mw-402	VOCs (Method 8260B)	40 mL VOA Vials	2	HCL	1115

Sample Laboratory (circle): ACL/Xenco/AES/Other Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

**Field Personnel Signature:**

Long / Goals



AEM Project:	ARAMARK DeKalb	AEM Job No.:	1133-1401-3	Well No.:	MW-403
Sampling Personnel:	Tony Gordon, Chad Crumley, Neil Sargent			Date:	1/13/2014
Comments:				Time In:	1330
				Time Out:	

Well Diameter: 2.0 inches      Reference Point Marked: (Yes) No

Depth to Water: 12.50 feet below T.O.C.      Well Depth: 27.45 feet below T.O.C.

0.04 gal/ft in 1-inch-ID well
0.16 gal/ft in 2-inch-ID well
0.65 gal/ft in 4-inch-ID well

Water Column: 9.95 ft	Pressure (check): <input type="checkbox"/> Low Stress <input type="checkbox"/> purge
1 Well Volume= 1.6 gal	Purge Start Time: 1342
3 Well Volume= 4.8 gal	Purge End Time: 1432
Total Purged: 5.6 gal	Total Time: 45 min
Well Purge Dry (?): yes (no)	Purge Rate: 0.12 gpm

Bailer: <input type="checkbox"/> Teflon <input type="checkbox"/> Poly.	Pump: <input type="checkbox"/> Grundfos <input checked="" type="checkbox"/> Peri.	ID# <u>P-8</u>
Pump Tubing Type: <input type="checkbox"/> Teflon <input checked="" type="checkbox"/> Teflon-Lined Poly. <input type="checkbox"/> Polyethylene		
Meter(s) Used: <input checked="" type="checkbox"/> Hanna 991300 <input type="checkbox"/> YSI 556 <input checked="" type="checkbox"/> Lamotte 2020	ID#s <u>1/7</u>	
Calibration Date/Time: <u>1000 1/13/14</u>		
Comments: <u>clean pump station</u>		

	Gallons	Temp.	Cond.	pH	Oxygen	ORP	Turbidity	Water Level
Time	Purged	Deg. Cel	µS/cm	SU	mg/L	mV	NTUs	ft. from TOC
1358	1.5	16.6°	1,123	7.60	—	—	14.0	14.51
1403	2.0	17.2°	1,089	7.30	—	—	5.70	15.05
1411	3.0	16.8°	1,025	7.11	—	—	4.03	15.62
1423	4.0	17.2°	1,009	7.08	—	—	1.62	16.15
1427	4.5	17.1°	1,007	7.06	—	—	1.05	16.18
1432	5.0	17.3°	1,005	7.06	—	—	0.82	16.19
<b>Stabilization Info:</b>								
	N/A	+/- 5%	+/- 0.1 SU	-----	-----	<10 NTUs	-----	

Sample Collection Method (check all): ☐ Bailer ☒ Straw Method ☐ Pump Tubing ☐ Vacuum Jug ☐ Other

Final Tubing/Pump Depth: 16.5 feet below T.O.C. Final Groundwater Depth(if applic.) 16.18 feet below T.O.C.

Final Sample Turbidity: 0.82 NTUs Ferrous Iron Concentration (if sampled): NL mg/L

Comments: clear sample, no odor

Sample ID	Analysis	Container	Qty.	Preservative	Time Sampled
mw-403	VOCs (Method 8260B)	40 mL VOA Vials	2	HCL	1435

Sample Laboratory (circle): ACL/Xenco/AES/Other Delivery Method: Hand Delivery/Fed-Ex/UPS/Other

**Field Personnel Signature:**

12/30/2013, 1:44 PM, CURRENT-SamplingFieldLog-Oct2011, ARAMARK DeKalb (2), Page 1 of 1.

AEM Project:	ARAMARK DeKalb	AEM Job No.:	1133-1401-3	Well No.:	MW-405
Sampling Personnel:	<del>Tony Gordon, Chad Crumbley, Neil Sargent</del>			Date:	1-9-14
Comments:	Cloudy / Cool			Time In:	1419 Time Out: 1530

Well Information		
Well Diameter:	2.0 inches	Reference Point Marked: <input checked="" type="radio"/> Yes <input type="radio"/> No
Depth to Water:	11.56 feet below T.O.C.	Well Depth: 18.65 feet below T.O.C.

Purging Information		Purging Equipment and Calibration Information	
Water Column: 7.09 ft	Purge Method (check): <input checked="" type="checkbox"/> Low Flow-Low Stress <input type="checkbox"/> Micro-purge	Bailer: <input type="checkbox"/> Teflon <input type="checkbox"/> Poly. Pump: <input type="checkbox"/> Grundfos <input checked="" type="checkbox"/> Peri. ID# 2.7	
1 Well Volume= 1.13 gal	Purge Start Time: 1434	Pump Tubing Type: <input type="checkbox"/> Teflon <input checked="" type="checkbox"/> Teflon-Lined Poly. <input type="checkbox"/> Polyethylene	
3 Well Volume= 3.40 gal	Purge End Time: 1518	Meter(s) Used: <input checked="" type="checkbox"/> Hanna 991300 <input type="checkbox"/> YSI 556 <input checked="" type="checkbox"/> Lamotte 2020 ID#s 8/11	
Total Purged: 3.5 gal	Total Time: 44 min	Calibration Date/Time: 1-9-14 1230	
Well Purge Dry (?): yes (no)	Purge Rate: .08 gpm	Comments:	

[illegible]

Sample Collection Parameters	
Sample Collection Method (check all): <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Straw Method <input type="checkbox"/> Pump Tubing <input type="checkbox"/> Vacuum Jug <input type="checkbox"/> Other	
Final Tubing/Pump Depth: <u>2 12.20</u> feet below T.O.C	Final Groundwater Depth(if applic.) <u>12.15</u> feet below T.O.C
Final Sample Turbidity: <u>3.89</u> NTUs	Ferrous Iron Concentration (if sampled): _____ mg/L
Comments: _____	

Laboratory Analytical Information					
Sample ID	Analysis	Container	Qty.	Preservative	Time Sampled
MW-205	VOCs (Method 8260B)	40 mL VOA Vials	2	HCL	1520

Sample Laboratory (circle): ACL / Xenco / AES / Other      Delivery Method: Hand Delivery / Fed-Ex / UPS / Other

**Field Personnel Signature:**

AEM Project:	ARAMARK DeKalb	AEM Job No.: 1133-1401-3	Well No.: Mw-409
Sampling Personnel:	<del>Tony Gordon, Chad Crumbley, Neil Sargent</del>		Date: 1-10-14
Comments:	Cloudy (mist) / cool		Time In: 1325 Time Out: 1440

Well Information		
Well Diameter:	2.0 inches	Reference Point Marked: Yes No
Depth to Water:	12.46 feet below T.O.C.	Well Depth: 20.05 feet below T.O.C.


<b>Purging Information</b> Water Column: 7.59 ft 1 Well Volume= 1.21 gal 3 Well Volume= 3.64 gal Total Purged: gal Well Purge Dry (?): yes/no		<b>Purging Equipment and Calibration Information</b> Bailer: <input type="checkbox"/> Teflon <input type="checkbox"/> Poly. Pump: <input type="checkbox"/> Grundfos <input checked="" type="checkbox"/> Peri. ID# P-7 Pump Tubing Type: <input type="checkbox"/> Teflon <input checked="" type="checkbox"/> Teflon-Lined Poly. <input type="checkbox"/> Polyethylene Meter(s) Used: <input checked="" type="checkbox"/> Hanna 991300 <input type="checkbox"/> YSI 556 <input checked="" type="checkbox"/> Lamotte 2020 ID#s 3/11 Calibration Date/Time: 1-10-14 0910 Comments:	
Purge Method (check): <input checked="" type="checkbox"/> Low Flow-Low Stress <input type="checkbox"/> Micro-purge Purge Start Time: 1336 Purge End Time: Total Time: min Purge Rate: gpm			

Groundwater Field Parameters								
	Gallons Purged	Temp. Deg. Cel	Cond. $\mu\text{S/cm}$	pH SU	Dissolved Oxygen mg/L	ORP mV	Turbidity NTUs	Water Level ft. from TOC
Time								
1348	1.0	15.2	547	6.75	—	—	3.25	13.30
1359	2.0	14.8	531	6.70	—	—	3.11	13.44
1410	3.0	14.5	530	6.72	—	—	3.10	13.59
1418	3.5	14.3	533	6.78	—	—	3.14	13.64
1424	4.0	14.1	538	6.74	—	—	3.00	13.68
Stabilization Info:								
	N/A	+/- 5%	+/- 0.1 SU	-----	-----	<10 NTUs	-----	

Sample Collection Parameters			
Sample Collection Method (check all):			
<input type="checkbox"/> Bailer	<input checked="" type="checkbox"/> Straw Method	<input type="checkbox"/> Pump Tubing	<input type="checkbox"/> Vacuum Jug
		<input type="checkbox"/> Other	
Final Tubing/Pump Depth:	feet below T.O.C	Final Groundwater Depth(if applic.)	feet below T.O.C
Final Sample Turbidity:	NTUs	Ferrous Iron Concentration (if sampled):	mg/L
Comments:			

Laboratory Analytical Information					
Sample ID	Analysis	Container	Qty.	Preservative	Time Sampled
MW-409	VOCs (Method 8260B)	40 mL VOA Vials	2	HCL	1/28

Sample Laboratory (circle): ACL/Xenco AES/Other      Delivery Method: Hand Delivery/Fed Ex/UPS/Other

Field Personnel Signature: 

AEM Project:	ARAMARK DeKalb	AEM Job No.:	1133-1401-3	Well No.:	MW-409D
Sampling Personnel:	Tony Gordon, Chad Crumbley, Neil Sargent			Date:	1-10-14
Comments:	Cloc. L. / Coo. 1			Time In:	1119
				Time Out:	1324

<b>Sample Collection Parameters</b>	
Sample Collection Method (check all): <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Straw Method <input type="checkbox"/> Pump Tubing <input type="checkbox"/> Vacuum Jug <input type="checkbox"/> Other	
Final Tubing/Pump Depth: <u>~13.55</u> feet below T.O.C	Final Groundwater Depth(if applic.) <u>1348</u> feet below T.O.C
Final Sample Turbidity: <u>2.32</u> NTUs	Ferrous Iron Concentration (if sampled): <u>—</u> mg/L
Comments:	