

August 22, 2013

Ms. Jeannette DeBartolomeo
Maryland Department of Environment
Oil Control Program
1800 Washington Blvd. Suite 620
Baltimore, Maryland 21230-1719

AECOM Project: 60144763

Subject: Bio-Augmentation Pilot Test Report

7-Eleven Store No. 22281
2400 Pleasantville Road
Fallston, Maryland
Facility ID No. 0006365
MDE Case No. 2005-0120HA

Dear Ms. DeBartolomeo,

On behalf of 7-Eleven, Inc. (7-Eleven), AECOM has prepared this subsurface pilot testing summary report for the injection of bio-remediation products to degrade petroleum hydrocarbons, including the fuel oxygenate methyl-tertiary butyl ether (MTBE), at the above-referenced site. This pilot test was performed in accordance with the Revised Bio-Augmentation Pilot Test Work Plan requesting the installation of two shallow injection trenches and a nine-month bio-augmentation testing period which was submitted to the Maryland Department of the Environment (MDE) on January 16, 2012 and was approved on March 6, 2012. The two injection trenches were installed on August 20, 2013. The nine-month bio-augmentation testing period began on September 12, 2012 and was concluded on June 6, 2013.

Introduction

The site is located within Harford County, Maryland, which has been classified by the MDE as a High Risk Groundwater Use Area (HRGUA). Currently eighteen monitoring wells exist at the site. Sixteen monitoring wells are located on-site and two monitoring wells are located off-site to the north across State Highway 152. Monitoring well HW-1 was destroyed during the October 2008 UST replacement activities. On August 20, 2012, AECOM and Odyssey Environmental Services, Inc. (Odyssey) installed two bio-injection trenches. **Figure 1** is a site map showing the locations of the monitoring wells, bio-injection trenches and other site-related features.

As determined from the historical sampling events, MTBE has consistently been detected in the shallow monitoring wells MW-4A, MW-6, MW-9, MW-10, MW-11, MW-12, MW-13, and HW-3 are above the MDE guidelines of 20 µg/L. MTBE concentrations in the deeper groundwater zone have historically remained below 20 µg/L in monitoring wells MW-1B, MW-3B and MW-4B, with the exception of a detection of 21 µg/L in MW-4B in December 2006. However, MTBE concentrations have ranged from 12 µg/L to 100 µg/L in the deep monitoring well MW-8B.

The objective of this revised bio-augmentation pilot test was to reduce the concentration of petroleum compounds including MTBE in the shallow groundwater by injecting groundwater amended nutrients,

naturally-occurring microorganisms, enzymes and dissolved oxygen. Subsurface conditions within the pilot test area were monitored throughout the proposed nine month testing period.

Trench Construction

Per MDE approval in the letter dated March 6, 2013, included as **Attachment A**, AECOM and Odyssey installed three bio-injection trenches (B-1, B-2 and C) on August 20, 2012. Each trench is three feet wide and approximately 12 to 15 feet bgs and backfilled with pea gravel to approximately 5 feet bgs. A filter fabric was installed on top of the pea gravel in each trench prior to backfilling with clean soil and compacted to approximately 95% compaction to approximately six inches bgs. The top six inches were completed to existing grade (asphalt or landscaping). Access points were installed into each of the trenches during construction for the even distribution of injection fluids. **Figure 1** is a site plan showing the locations of the bio-injection trenches.

Field Pilot Testing

A pilot test of enhanced in-situ bioremediation using periodic injections of Petrozyme™, a biological stimulator, to augment and stimulate the naturally occurring population of hydrocarbon degrading bacteria in the areas of residual dissolved-phase petroleum hydrocarbons detected in monitoring wells north of monitoring well MW-4A. The application of the bio-augmentation technology involved a program of two site visits per month for nine months which began on September 12, 2012 and was concluded on June 6, 2013. Petrozyme™ products and custom blended nutrients (CBN) were mixed with approximately 750 gallons of potable water infused with dissolved oxygen (DO). The solution was then injected equally into each of the three trenches through the trench access points. Six monitoring wells (MW-6, MW-9, MW-10, MW-11, MW-13 and HW-3) were monitored for dissolved oxygen (DO) concentrations prior to the Petrozyme™ injection and again immediately following the injection. A summary of the injection dates and DO concentrations following the injections are included as **Table 1**.

The injectate supports aerobic in-situ microbial degradation of BTEX and MTBE. The end-products of hydrocarbon and BTEX degradation are carbon dioxide (CO₂) and water (H₂O). The intermediate degradation products for petroleum hydrocarbon constituents (fatty acids, alcohols, etc.) are inert and easily degradable by indigenous bacteria already in the subsurface. No other reaction products or byproducts were formed through these natural biological processes.

Summary of Site Activities

Baseline Monitoring Summary

An assessment of the subsurface conditions with respect to the current level of biological activity and the potential to enhance the biological degradation of petroleum hydrocarbons was performed prior to the initiation of the proposed bio-augmentation activities on September 12, 2012 and the laboratory results have been used to establish a baseline to which data gathered throughout the pilot test program is compared. The sampling event on September 12, 2013 was performed in accordance with previously established monitoring procedures and includes the collection of groundwater samples from each monitoring well associated with the site. The groundwater samples were analyzed for BTEX, MTBE and fuel oxygenates using EPA Method 8260B, TPH-GRO using EPA Method 8015B.

Test Implementation Monitoring Summary

Throughout the proposed pilot test program, monitoring of biological, chemical and physical parameters were conducted within the test area. Analysis of this site data resulting from these monitoring activities were performed with respect to baseline conditions to evaluate the

effectiveness of the bio-augmentation test and to identify any opportunities to maximize the efficiency of the bio-augmentation process. All site monitoring activities were performed prior to the initiation of the bio-augmentation activities anticipated for that particular visit.

As detailed in the previous sections, biweekly visits to the site were performed to facilitate the addition of augmented groundwater to the pilot test treatment area. Field measurement of groundwater dissolved oxygen concentration in monitoring wells HW-3, MW-6, MW-9, MW-11, and MW-13 were collected upon arrival at the site during each biweekly visit.

Routine groundwater sampling of all monitoring wells associated with the site was conducted on a quarterly basis to evaluate the distribution of dissolved-phase petroleum hydrocarbons. The quarterly groundwater sampling events were conducted on December 6, 2012, and March 11 and June 6, 2013 in an identical manner to the established sampling regiment as described previously for baseline sampling. A summary of groundwater laboratory data is provided in **Table 2**. Laboratory analytical reports are included as **Attachment B**. Collection of groundwater samples for evaluation of any changes induced in the biological characteristics within the test area were conducted on February 14, March 11 and June 6, 2013. Groundwater samples were obtained from the same monitoring wells used for baseline sampling (HW-3, MW-6, MW-9, MW-11, and MW-13) and analyzed the groundwater samples for nitrate, nitrite, and orthophosphate. A summary of groundwater laboratory data is provided in **Table 3**. Laboratory analytical reports are included as **Attachment C**.

Results

The following is an assessment of the efficiency and effectiveness of the bioremediation program.

The injectate supports aerobic in-situ microbial degradation of BTEX and MTBE. The intermediate degradation products for petroleum hydrocarbon constituents (fatty acids, alcohols, etc.) are inert and easily degradable by indigenous bacteria already in the subsurface.

Laboratory data indicates a strong relationship between groundwater DO levels and nutrient levels (mainly nitrate and orthophosphate) and reduction of dissolved-phase petroleum hydrocarbon concentrations in the shallow water-bearing zone in the areas of monitoring wells HW-3, MW-6, MW-9, MW-11, and MW-13. Over the course of the nine-month bio-augmentation pilot study, an overall reduction of petroleum-related hydrocarbon concentrations followed increases in nutrient levels stimulated by the injection of Petrozyme™ products into the shallow aquifer. From September 12, 2012 to June 6, 2013, MTBE concentrations in monitoring wells MW-6 and MW-10 were reduced by approximately 50%. MTBE concentrations in were reduced by 20% in MW-9, 58% in MW-11, 14% in MW-13 and approximately 67% in HW-3. Of the wells in the near vicinity, HW-3 rebounded to 1,100 µg/L in June 2013 after dropping to 500 µg/L in the March 2013 sample. A summary of groundwater laboratory data for monthly groundwater sampling is provided in **Table 2**. Graphs illustrating the decline in MTBE concentrations with relation to the DO levels since the beginning of the bio-augmentation can be seen in **Attachment D**. In addition, graphs illustrating the decline in MTBE concentrations with relation to nitrate levels and to orthophosphate levels are included as **Attachment E** and **Attachment F**, respectively. A summary of groundwater laboratory data of nitrate, nitrite, and orthophosphate is provided in **Table 3**. Laboratory analytical reports are included as **Attachment B**.

Test Follow-up Monitoring Summary

Currently, the routine site monitoring schedule associated with the evaluation of the distribution of dissolved-phase petroleum hydrocarbons is continuing according to the previously-established schedule. Groundwater samples will be collected quarterly from all monitoring wells associated with the site and analyzed for VOCs, fuel oxygenates and TPH-GRO.

The bio-augmentation of groundwater has shown it can be effective in the remediation of MTBE at this site. The field pilot testing has provided evidence that bio-augmentation products can decrease MTBE concentrations over time. Based on these findings, AECOM on behalf of 7-Eleven requests that the bio-augmentation testing be extended for an additional nine month period beginning September 2013.

If you have any questions, please contact the undersigned at (240) 565-6501.

Yours sincerely,



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Project Manager
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cc: Harford County Health Department
7-Eleven Project File

FIGURE

FIGURE 1 – Site Plan with Location of Bio-Injection Trenches

TABLES

TABLE 1 – Monitoring Well Groundwater Dissolved Oxygen Levels

TABLE 2 – Groundwater Analytical Results (Groundwater Characteristics)

TABLE 3 – Monitoring Well Groundwater Nutrient Analytical

ATTACHMENTS

ATTACHMENT A – MDE Approval Letter (March 6, 2013)

ATTACHMENT B – Laboratory Analytical Reports (Quarterly Groundwater Sampling)

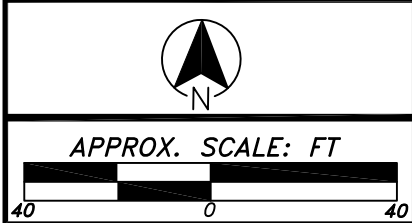
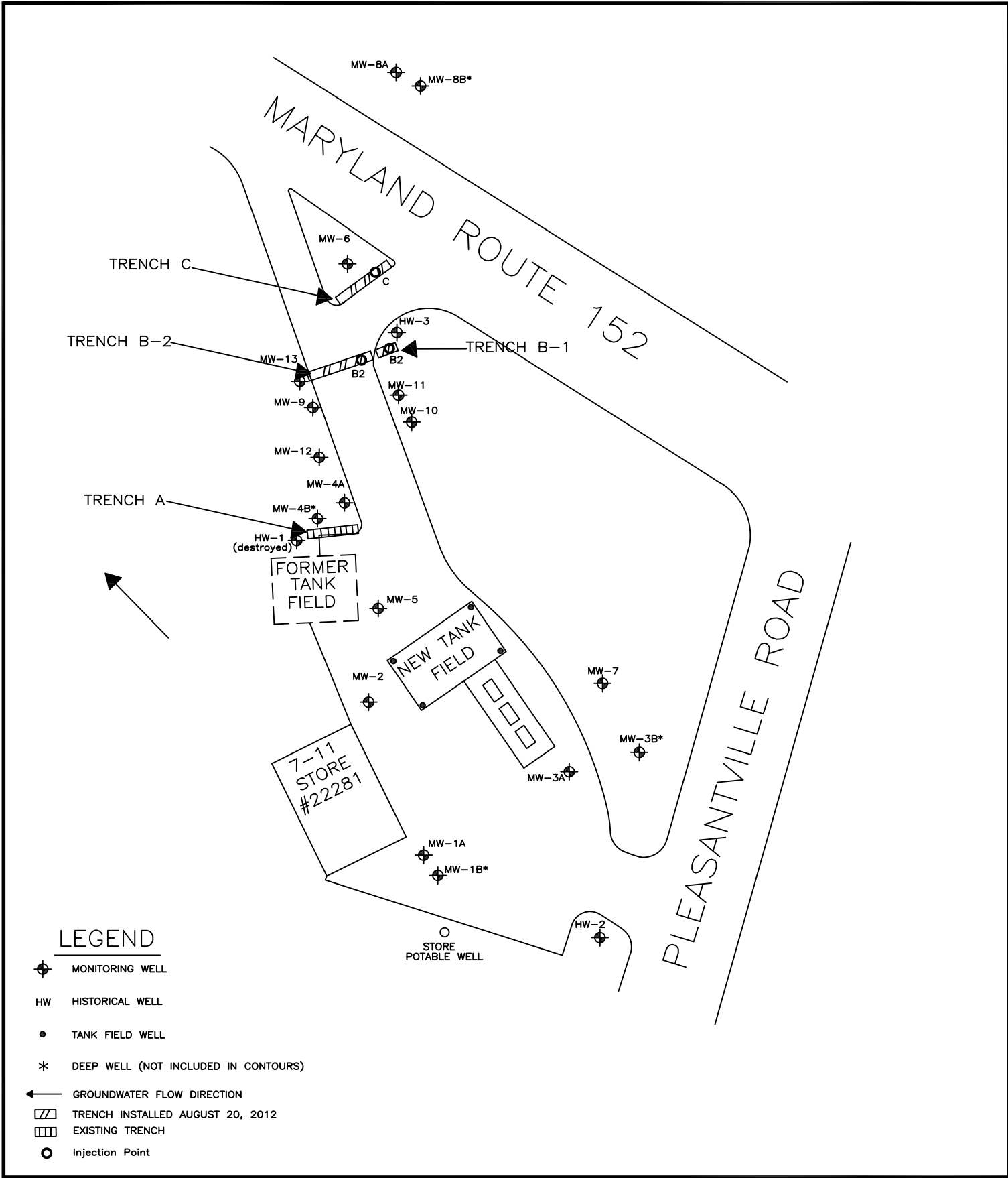
ATTACHMENT C – Laboratory Analytical Reports (Nutrients)

ATTACHMENT D – MTBE Concentration vs. Dissolved Oxygen Graphs

ATTACHMENT E – MTBE Concentrations vs. Nitrate Levels Graphs

ATTACHMENT F – MTBE Concentrations vs. Orthophosphate Levels Graphs

FIGURE



SITE PLAN

August 2013

Drawn By: JLT Reviewed By: NP

7-ELEVEN Inc.
STORE No. 22281
2400 PLEASANTVILLE ROAD
FALLSTON, MARYLAND

Project No.: 60144763

FIGURE 1

AECOM

TABLES

Table 1
Monitoring Well Groundwater Dissolved Oxygen Levels
7-Eleven Store No. 22281
Fallston, Maryland

Sample ID	Date	Dissolved Oxygen (mg/L)
MW-6	3/1/12	1.34
	9/12/12	1.44
	1/31/2013	0.94
	2/7/2013	0.7
	2/14/2013	4.31
	3/1/2013	2.93
	3/11/2013	0.9
	3/14/2013	5.9
	4/11/2013	0.25
	4/26/2013	0.28
	5/10/2013	0.32
	5/24/2013	0.58
	6/6/2013	0.77
MW-9	3/1/2012	0.46
	9/12/2012	1.15
	1/31/2013	1.32
	2/7/2013	3.9
	2/14/2013	4.94
	3/1/2013	2.09
	3/11/2013	0.8
	3/14/2013	2.32
	4/11/2013	0.3
	4/26/2013	0.44
	5/10/2013	0.24
	5/24/2013	0.57
	6/6/2013	0.81
MW-10	3/1/2012	4.03
	9/12/2012	1.09
	1/31/2013	1.78
	2/7/2013	1.7
	2/14/2013	1.01
	3/1/2013	2.22
	3/11/2013	0.9
	3/14/2013	1.77
	4/11/2013	0.1
	4/26/2013	0.28
	5/10/2013	0.34
	5/24/2013	0.58
	6/6/2013	0.58

Sample ID	Date	Dissolved Oxygen (mg/L)
MW-11	3/1/2012	9.9
	9/12/2012	1.11
	1/31/2013	1.3
	2/7/2013	1.1
	2/14/2013	1.11
	3/1/2013	2.01
	3/11/2013	0.6
	3/14/2013	10.56
	4/11/2013	0.11
	4/26/2013	0.2
	5/10/2013	0.22
	5/24/2013	0.46
	6/6/2013	0.49
MW-13	3/1/2012	0.48
	9/12/2012	1.11
	1/31/2013	1.71
	2/7/2013	3.1
	2/14/2013	1.38
	3/1/2013	1.78
	3/11/2013	1
	3/14/2013	2.24
	4/11/2013	0.14
	4/26/2013	0.26
	5/10/2013	0.25
	5/24/2013	0.63
	6/6/2013	0.59
HW-3	9/12/2012	1.75
	1/31/2013	4.43
	2/7/2013	0.9
	2/14/2013	4.16
	3/1/2013	2.24
	3/11/2013	0.4
	3/14/2013	8.07
	4/11/2013	0.14
4/26/2013	0.28	
5/10/2013	0.31	
5/24/2013	0.59	
6/6/2013	0.6	

Table 2
Monitoring Well Groundwater Analytical Results
 7-Eleven Store No. 22281
 Fallston, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-1A	7/26/05	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	ND@100	ND@0.56
	11/22/05	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	NA	NA
	3/16/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	ND@100	ND@0.50
	6/30/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	ND@100	ND@0.5
	9/12/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	ND@100	ND@0.5
	12/7/06	ND@1	ND@1	ND@1	ND@3	ND	1	ND@10	ND@10	ND@100	ND@0.5
	3/28/07	ND@1	ND@1	ND@1	ND@3	ND	2	ND@10	ND@10	ND@100	ND@0.5
	6/22/07	ND@1	ND@1	ND@1	ND@3	ND	1	ND@10	ND@10	ND@100	ND@0.5
	9/25/07	ND@1	ND@1	ND@1	ND@3	ND	2	ND@10	ND@10	ND@100	ND@0.5
	12/14/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	3/14/08	ND@1	ND@1	ND@1	ND@3	ND	2	ND@10	ND@10	ND@100	ND@0.5
	6/18/08	ND@1	ND@1	ND@1	ND@3	ND	3	ND@20	ND@10	ND@100	ND@0.5
	9/3/08	ND@1	ND@1	ND@1	ND@3	ND	1	ND@20	ND@10	ND@100	ND@0.5
	12/23/08	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	ND@0.5
	3/24/09	ND@1	ND@1	ND@1	ND@3	ND	1	ND@20	ND@10	ND@100	NA
	6/8/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/27/09	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	NA
	12/23/09	ND@1	ND@1	ND@1	ND@3	ND	1	ND@20	ND@10	ND@100	NA
	3/10/10	ND@1	ND@1	ND@1	ND@3	ND	1	ND@20	ND@10	ND@100	NA
	6/7/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/20/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/20/10	ND@1	ND@1	ND@1	ND@3	ND	1	ND@20	ND@10	ND@100	NA
	3/22/11	ND@1	ND@1	ND@1	ND@3	ND	1	ND@20	ND@10	ND@100	NA
	6/29/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/22/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/8/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/1/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/5/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
9/12/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
12/6/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
3/11/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
6/6/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
MW-1B	7/26/05	ND@1	ND@1	ND@1	ND@3	ND	11	ND@25	ND@25	ND@100	ND@0.5
	11/22/05	ND@1	ND@1	ND@1	ND@3	ND	12	ND@25	ND@25	NA	NA
	3/16/06	ND@1	ND@1	ND@1	ND@3	ND	6	ND@25	ND@25	ND@100	ND@0.5
	6/30/06	ND@1	ND@1	ND@1	ND@3	ND	3	ND@25	ND@25	ND@100	ND@0.5
	9/12/06	ND@1	ND@1	ND@1	ND@3	ND	6	ND@25	ND@25	ND@100	ND@0.5
	12/7/06	ND@1	ND@1	ND@1	ND@3	ND	6	ND@10	ND@10	ND@100	ND@0.5
	3/28/07	ND@1	ND@1	ND@1	ND@3	ND	2	ND@10	ND@10	ND@100	ND@0.5
	6/22/07	ND@1	ND@1	ND@1	ND@3	ND	2	ND@10	ND@10	ND@100	ND@0.5
	9/25/07	ND@1	ND@1	ND@1	ND@3	ND	2	ND@10	ND@10	ND@100	ND@0.5
	12/14/07	ND@1	ND@1	ND@1	ND@3	ND	2	ND@10	ND@10	ND@100	ND@0.5
	3/14/08	ND@1	ND@1	ND@1	ND@3	ND	2	ND@10	ND@10	ND@100	ND@0.5
	6/18/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	9/3/08	ND@1	ND@1	ND@1	ND@3	ND	1	ND@20	ND@10	ND@100	ND@0.5
	12/23/08	ND@1	ND@1	ND@1	ND@3	ND	1	ND@20	ND@10	ND@100	ND@0.5
	3/24/09	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	NA
	6/8/09	ND@1	ND@1	ND@1	ND@3	ND	1	ND@20	ND@10	ND@100	NA
	9/27/09	ND@1	ND@1	ND@1	ND@3	ND	1	ND@20	ND@10	ND@100	NA
	12/23/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/10/10	ND@1	ND@1	ND@1	ND@3	ND	1	ND@20	ND@10	ND@100	NA
	6/7/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/20/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/20/10	ND@1	ND@1	ND@1	ND@3	ND	1	ND@20	ND@10	ND@100	NA
	3/22/11	ND@1	ND@1	ND@1	ND@3	ND	1	ND@20	ND@10	ND@100	NA
	6/29/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/22/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/8/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/1/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/5/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
9/12/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
12/6/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
3/11/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
6/6/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	

Table 2
Monitoring Well Groundwater Analytical Results
 7-Eleven Store No. 22281
 Fallston, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)	
MW-2	7/26/05	ND@1	ND@1	ND@1	ND@3	ND	3	ND@25	ND@25	ND@100	ND@0.56	
	11/22/05	ND@1	ND@1	ND@1	ND@3	ND	37	ND@25	ND@25	NA	NA	
	3/16/06	ND@1	ND@1	ND@1	ND@3	ND	49	28	ND@25	ND@100	ND@0.5	
	6/30/06	ND@1	ND@1	ND@1	ND@3	ND	52	ND@25	ND@25	ND@100	ND@0.5	
	9/12/06	ND@1	ND@1	ND@1	ND@3	ND	31	ND@25	ND@25	ND@100	ND@0.5	
	12/7/06	ND@1	ND@1	ND@1	ND@3	ND	27	ND@10	ND@10	ND@100	ND@0.5	
	3/28/07	ND@1	ND@1	ND@1	ND@3	ND	12	ND@10	ND@10	ND@100	ND@0.5	
	6/22/07	ND@1	ND@1	ND@1	ND@3	ND	9	ND@10	ND@10	ND@100	ND@0.5	
	9/25/07	ND@1	ND@1	ND@1	ND@3	ND	5	ND@10	ND@10	ND@100	ND@0.5	
	12/14/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5	
	3/14/08	ND@1	ND@1	ND@1	ND@3	ND	5	ND@10	ND@10	ND@100	ND@0.5	
	6/18/08	ND@1	ND@1	ND@1	ND@3	ND	5	ND@20	ND@10	ND@100	ND@0.5	
	9/3/08	ND@1	ND@1	ND@1	ND@3	ND	4	ND@20	ND@10	ND@100	ND@0.5	
	12/23/08	ND@1	ND@1	ND@1	ND@3	ND	3	ND@20	ND@10	ND@100	ND@0.5	
	3/24/09	ND@1	ND@1	ND@1	ND@3	ND	3	ND@20	ND@10	ND@100	NA	
	6/8/09	ND@1	ND@1	ND@1	ND@3	ND	3	ND@20	ND@10	ND@100	NA	
	9/27/09	ND@1	ND@1	ND@1	ND@3	ND	3	ND@20	ND@10	ND@100	NA	
	12/23/09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/10/10	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	NA	
	6/7/10	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	NA	
	9/20/10	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	NA	
	12/20/10	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	NA	
	3/22/11	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	NA	
	6/29/11	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	NA	
	9/22/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
	12/8/11	ND@1	ND@1	ND@1	ND@3	ND	1.2	ND@20	ND@10	ND@100	NA	
	3/1/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
	6/5/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
9/12/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA		
12/6/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA		
3/11/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA		
6/6/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA		
MW-3A	7/26/05	ND@1	ND@1	ND@1	ND@3	ND	2400	1700	110	2700	ND@0.5	
	11/22/05	ND@1	ND@1	ND@1	ND@3	ND	260	120	ND@25	NA	NA	
	3/16/06	ND@1	ND@1	ND@1	ND@3	ND	37	ND@25	ND@25	ND@100	ND@0.5	
	6/30/06	ND@1	ND@1	ND@1	ND@3	ND	3	ND@25	ND@25	ND@100	ND@0.5	
	9/12/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	ND@100	ND@0.5	
	12/7/06	ND@1	ND@1	ND@1	ND@3	ND	2	ND@10	ND@10	ND@100	ND@0.5	
	3/28/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5	
	6/22/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5	
	9/25/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5	
	12/14/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5	
	3/14/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5	
	6/18/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5	
	9/3/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5	
	12/23/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5	
	3/24/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
	6/8/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
	9/27/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
	12/23/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
	3/10/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
	6/7/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
	9/20/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
	12/20/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
	3/22/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
	6/29/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
	9/22/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
	12/8/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
	3/1/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
	6/5/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
9/12/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA		
12/6/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA		
3/11/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA		
6/6/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA		

Table 2
Monitoring Well Groundwater Analytical Results
7-Eleven Store No. 22281
Fallston, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-3B	2/16/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	ND@100	ND@0.5
	2/22/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	ND@100	ND@0.5
	3/16/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	ND@100	ND@0.5
	6/30/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	ND@100	ND@0.5
	9/12/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	ND@100	ND@0.5
	12/7/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	2.5
	3/28/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	6/22/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	9/25/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	12/14/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	3/14/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	6/18/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	9/3/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	12/23/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	3/24/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/8/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/27/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/23/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/10/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/7/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/20/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/20/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/22/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/29/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/22/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/8/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/1/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/5/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/12/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/6/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/11/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/6/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA

Table 2
Monitoring Well Groundwater Analytical Results
 7-Eleven Store No. 22281
 Fallston, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-4A	7/26/05	11	ND@1	ND@1	10	21	31,000	25,000	E 2,200	30,000	ND@0.5
	11/22/05	15	ND@1	ND@1	10	25	42,000	29,000	3,200	NA	NA
	3/16/06	ND@5	ND@5	ND@5	ND@10	0	20,000	9,900	940	2,100	ND@0.5
	6/30/06	14	3	ND@1	12	29	E 3,300	E 3,400	E 560	2,000	LF 0.52
	9/12/06	34	9	ND@1	25	68	20,000	E 21,000	E 630	2,900	ND@0.5
	12/7/06	30	ND@5	ND@5	11	41	27,000	32000	780	3,000	LF 0.72
	3/28/07	8	ND@1	ND@1	6	14	E 37,000	E 41,000	E 490	2,500	0.7
	6/22/07	8	ND@1	ND@1	10	18	E 12,000	E 5,300	E 480	2,500	ND@0.5
	9/25/07	7	ND@1	ND@1	6	13	E 11,000	E 4,500	E 560	1,500	ND@0.5
	12/14/07	7	ND@1	ND@1	6	13	E 7,600	ND@10	E 460	1,700	ND@0.5
	3/14/08	ND@100	ND@100	ND@100	ND@300	ND	15,000	11,000	ND@1,000	20,000	ND@0.5
	6/18/08	ND@50	ND@50	ND@50	ND@150	ND	8,100	4,500	ND@500	1,500	ND@0.5
	9/3/08	7	ND@1	ND@1	ND@3	7	8,200	11,000	460	4,400	ND@0.5
	12/23/08	ND@100	ND@100	ND@100	ND@300	ND	15,000	9,500	ND@1,000	6,000	ND@0.5
	3/24/09	ND@1	ND@1	ND@1	ND@3	ND	4,900	4,100	130	720	NA
	6/8/09	2	ND@1	ND@1	ND@3	2	5,100	2,900	150	1,600	NA
	9/27/09	3	ND@1	ND@1	1	4	6,600	3,700	220	9,100	NA
	12/23/09	ND@1	ND@1	ND@1	ND@3	ND	1,500	660	54	1,900	NA
	3/10/10	ND@1	ND@1	ND@1	ND@3	ND	1,500	470	55	1,400	NA
	5/6/10	ND@1	ND@1	ND@1	ND@3	ND	150	61	ND@10	120	NA
	6/7/10	ND@1	ND@1	ND@1	ND@3	ND	23	ND@20	ND@10	ND@100	NA
	7/31/10	ND@1	ND@1	ND@1	ND@3	ND	35	ND@20	ND@10	ND@100	NA
	8/16/10	ND@1	ND@1	ND@1	ND@3	ND	55	ND@20	ND@10	ND@100	NA
	9/20/10	ND@1		ND@1	ND@3	ND	740	340	36	1,100	NA
	10/26/10	ND@1	ND@1	ND@1	ND@3	ND	730	210	ND@10	810	NA
	11/23/10	ND@1	ND@1	ND@1	ND@3	ND	870	210	41	850	NA
	12/20/10	ND@1	ND@1	ND@1	ND@3	ND	1,400	420	56	1,400	NA
	2/28/11	ND@1	ND@1	ND@1	ND@3	ND	860	90	45	850	NA
	3/22/11	ND@1	ND@1	ND@1	ND@3	ND	370	86	15	280	NA
	4/26/11	ND@1	ND@1	ND@1	ND@3	ND	390	82	18	530	NA
	5/25/11	ND@1	ND@1	ND@1	ND@3	ND	220	ND@20	ND@10	200	NA
	6/29/11	ND@1	ND@1	ND@1	ND@3	ND	1,100	ND@20	48	1,100	NA
	9/22/11	ND@1	ND@1	ND@1	ND@3	ND	210	39	ND@10	150	NA
	12/8/11	ND@1	ND@1	ND@1	ND@3	ND	150	ND@20	ND@10	150	NA
	3/1/12	ND@1	ND@1	ND@1	ND@3	ND	560	120	33	870	NA
	6/5/12	ND@1	ND@1	ND@1	ND@3	ND	410	58	17	460	NA
	9/12/12	ND@1	ND@1	ND@1	ND@3	ND	400	110	18	490	NA
	12/6/12	ND@1	ND@1	ND@1	ND@3	ND	390	97	22	490	NA
	3/11/13	ND@1	ND@1	ND@1	ND@3	ND	770	180	28	690	NA
	6/6/13	ND@1	ND@1	ND@1	ND@3	ND	660	210	30	760	NA

Table 2
Monitoring Well Groundwater Analytical Results
 7-Eleven Store No. 22281
 Fallston, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-4B	2/16/06	ND@1	ND@1	ND@1	ND@3	ND	16	ND@25	ND@25	ND@100	ND@0.5
	2/22/06	ND@1	ND@1	ND@1	ND@3	ND	16	ND@25	ND@25	ND@100	ND@0.5
	3/16/06	ND@1	ND@1	ND@1	ND@3	ND	13	ND@25	ND@25	ND@100	ND@0.5
	6/30/06	ND@1	ND@1	ND@1	ND@3	ND	7	ND@25	ND@25	ND@100	ND@0.5
	9/12/06	ND@1	ND@1	ND@1	ND@3	ND	6	ND@25	ND@25	ND@100	ND@0.5
	12/7/06	ND@1	ND@1	ND@1	ND@3	ND	21	ND@10	ND@10	ND@100	ND@0.5
	3/28/07	ND@1	ND@1	ND@1	ND@3	ND	7	ND@10	ND@10	ND@100	ND@0.5
	6/22/07	ND@1	ND@1	ND@1	ND@3	ND	3	ND@10	ND@10	ND@100	ND@0.5
	9/25/07	ND@1	ND@1	ND@1	ND@3	ND	8	ND@10	ND@10	ND@100	ND@0.5
	12/14/07	ND@1	ND@1	ND@1	ND@3	ND	6	ND@10	ND@10	ND@100	ND@0.5
	3/14/08	ND@1	ND@1	ND@1	ND@3	ND	5	ND@10	ND@10	ND@100	ND@0.5
	6/18/08	ND@1	ND@1	ND@1	ND@3	ND	12	ND@20	ND@10	ND@100	ND@0.5
	9/3/08	ND@1	ND@1	ND@1	ND@3	ND	13	ND@20	ND@10	ND@100	ND@0.5
	12/23/08	ND@1	ND@1	ND@1	ND@3	ND	18	ND@20	ND@10	ND@100	ND@0.5
	3/24/09	ND@1	ND@1	ND@1	ND@3	ND	4	ND@20	ND@10	ND@100	NA
	6/8/09	ND@1	ND@1	ND@1	ND@3	ND	4	ND@20	ND@10	ND@100	NA
	9/27/09	ND@1	ND@1	ND@1	ND@3	ND	5	ND@20	ND@10	ND@100	NA
	12/23/09	ND@1	ND@1	ND@1	ND@3	ND	11	ND@20	ND@10	ND@100	NA
	3/10/10	ND@1	ND@1	ND@1	ND@3	ND	6	ND@20	ND@10	ND@100	NA
	6/7/10	ND@1	ND@1	ND@1	ND@3	ND	13	ND@20	ND@10	ND@100	NA
	7/31/10	ND@1	ND@1	ND@1	ND@3	ND	11	ND@20	ND@10	ND@100	NA
	8/16/10	ND@1	ND@1	ND@1	ND@3	ND	11	ND@20	ND@10	ND@100	NA
	9/20/10	ND@1	ND@1	ND@1	ND@3	ND	12	ND@20	ND@10	ND@100	NA
	10/26/10	ND@1	ND@1	ND@1	ND@3	ND	14	ND@20	ND@10	ND@100	NA
	11/23/10	ND@1	ND@1	ND@1	ND@3	ND	3	ND@20	ND@10	ND@100	NA
	12/20/10	ND@1	ND@1	ND@1	ND@3	ND	3	ND@20	ND@10	ND@100	NA
	2/28/11	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	NA
	3/22/11	ND@1	ND@1	ND@1	ND@3	ND	4	ND@20	ND@10	ND@100	NA
	4/26/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	5/25/11	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	NA
	6/29/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/22/11	ND@1	ND@1	ND@1	ND@3	ND	5	ND@20	ND@10	ND@100	NA
	12/8/11	ND@1	ND@1	ND@1	ND@3	ND	5.3	ND@20	ND@10	ND@100	NA
3/1/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
6/5/12	ND@1	ND@1	ND@1	ND@3	ND	3.3	ND@20	ND@10	ND@100	NA	
9/12/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
12/6/12	ND@1	ND@1	ND@1	ND@3	ND	3.3	ND@20	ND@10	ND@100	NA	
3/11/13	ND@1	ND@1	ND@1	ND@3	ND	1.7	21	ND@10	ND@100	NA	
6/6/13	ND@1	ND@1	ND@1	ND@3	ND	2.1	ND@20	ND@10	ND@100	NA	

Table 2
Monitoring Well Groundwater Analytical Results
7-Eleven Store No. 22281
Fallston, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-5	7/26/05	ND@1	ND@1	ND@1	ND@3	ND	10	ND@25	ND@25	ND@100	ND@0.5
	11/22/05	ND@1	ND@1	ND@1	ND@3	ND	15	ND@25	ND@25	NA	NA
	3/16/06	ND@1	ND@1	ND@1	ND@3	ND	76	44	ND@25	ND@100	ND@0.5
	6/30/06	ND@1	ND@1	ND@1	ND@3	ND	11	ND@25	ND@25	ND@100	ND@0.5
	9/12/06	ND@1	ND@1	ND@1	ND@3	ND	27	ND@25	ND@25	ND@100	ND@0.5
	12/7/06	ND@1	ND@1	ND@1	ND@3	ND	15	ND@10	ND@10	ND@100	ND@0.5
	3/28/07	ND@1	ND@1	ND@1	ND@3	ND	3	ND@10	ND@10	ND@100	ND@0.5
	6/22/07	ND@1	ND@1	ND@1	ND@3	ND	3	ND@10	ND@10	ND@100	ND@0.5
	9/25/07	ND@1	ND@1	ND@1	ND@3	ND	4	ND@10	ND@10	ND@100	ND@0.5
	12/14/07	ND@1	ND@1	ND@1	ND@3	ND	5	ND@10	ND@10	ND@100	ND@0.5
	3/14/08	ND@1	ND@1	ND@1	ND@3	ND	7	ND@10	ND@10	ND@100	ND@0.5
	6/18/08	ND@1	ND@1	ND@1	ND@3	ND	9	ND@20	ND@10	ND@100	ND@0.5
	9/3/08	ND@1	ND@1	ND@1	ND@3	ND	7	ND@20	ND@10	ND@100	ND@0.5
	12/23/08	ND@1	ND@1	ND@1	ND@3	ND	32	ND@20	ND@10	ND@100	ND@0.5
	3/24/09	ND@1	ND@1	ND@1	ND@3	ND	15	ND@20	ND@10	ND@100	NA
	6/8/09	ND@1	ND@1	ND@1	ND@3	ND	8	ND@20	ND@10	ND@100	NA
	9/27/09	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	NA
	12/23/09	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	NA
	3/10/10	ND@1	ND@1	ND@1	ND@3	ND	3	ND@20	ND@10	ND@100	NA
	6/7/10	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	NA
	9/20/10	ND@1	ND@1	ND@1	ND@3	ND	5	ND@20	ND@10	ND@100	NA
	12/20/10	ND@1	ND@1	ND@1	ND@3	ND	5	24	ND@10	ND@100	NA
	3/22/11	ND@1	ND@1	ND@1	ND@3	ND	4	ND@20	ND@10	ND@100	NA
	6/29/11	ND@1	ND@1	ND@1	ND@3	ND	3	ND@20	ND@10	ND@100	NA
	9/22/11	ND@1	ND@1	ND@1	ND@3	ND	3	ND@20	ND@10	ND@100	NA
	12/8/11	ND@1	ND@1	ND@1	ND@3	ND	3	ND@20	ND@10	ND@100	NA
	3/1/12	ND@1	ND@1	ND@1	ND@3	ND	1.7	ND@20	ND@10	ND@100	NA
	6/5/12	ND@1	ND@1	ND@1	ND@3	ND	1.5	ND@20	ND@10	ND@100	NA
	9/12/12	ND@1	ND@1	ND@1	ND@3	ND	1.4	ND@20	ND@10	ND@100	NA
	12/6/12	ND@1	ND@1	ND@1	ND@3	ND	1.5	ND@20	ND@10	ND@100	NA
3/11/13	ND@1	ND@1	ND@1	ND@3	ND	1.1	ND@20	ND@10	ND@100	NA	
6/6/13	ND@1	ND@1	ND@1	ND@3	ND	1.1	ND@20	ND@10	ND@100	NA	

Table 2
Monitoring Well Groundwater Analytical Results
7-Eleven Store No. 22281
Fallston, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)	
MW-6	7/26/05	ND@1	ND@1	ND@1	ND@3	ND	760	560	28	840	ND@0.5	
	11/22/05	ND@1	ND@1	ND@1	ND@3	ND	1,900	990	77	NA	NA	
	3/16/06	ND@1	ND@1	ND@1	ND@3	ND	1,300	650	48	ND@100	ND@0.5	
	6/30/06	ND@1	ND@1	ND@1	ND@3	ND	E 860	59	48	ND@100	ND@0.5	
	9/12/06	ND@1	ND@1	ND@1	ND@3	ND	1,200	78	52	ND@100	ND@0.5	
	12/7/06	ND@10	ND@10	ND@10	ND@30	ND	2,400	140	110	140	ND@0.5	
	3/28/07	ND@100	ND@100	ND@100	ND@300	ND	1,100	ND@1,000	ND@1,000	110	ND@0.5	
	6/22/07	ND@1	ND@1	ND@1	ND@3	ND	E 1,000	78	62	130	ND@0.5	
	9/25/07	ND@1	ND@1	ND@1	ND@3	ND	E 1,200	120	65	150	ND@0.5	
	12/14/07	2	ND@1	ND@1	ND@1	ND@3	2	E 3,800	E 330	E 350	600	ND@0.5
	3/14/08	ND@50	ND@50	ND@50	ND@350	ND	3,000	ND@500	ND@500	3,700	ND@0.5	
	6/18/08	ND@10	ND@10	ND@10	ND@30	ND	2,200	ND@200	120	510	ND@0.5	
	9/3/08	ND@1	ND@1	ND@1	ND@3	ND	1,200	210	84	300	ND@0.5	
	12/27/08	ND@10	ND@10	ND@10	ND@30	ND	3,600	320	260	1,700	ND@0.5	
	3/24/09	ND@10	ND@10	ND@10	ND@30	ND	2,100	230	120	360	NA	
	6/8/09	ND@1	ND@1	ND@1	ND@3	ND	2,600	230	170	810	NA	
	9/27/09	ND@1	ND@1	ND@1	ND@3	ND	1,600	170	99	2,300	NA	
	12/23/09	ND@1	ND@1	ND@1	ND@3	ND	1,200	190	78	1,500	NA	
	3/10/10	ND@1	ND@1	ND@1	ND@3	ND	330	87	18	330	NA	
	6/7/10	ND@1	ND@1	ND@1	ND@3	ND	670	210	29	590	NA	
	7/31/10	ND@1	ND@1	ND@1	ND@3	ND	1,400	290	71	1,800	NA	
	8/16/10	ND@1	ND@1	ND@1	ND@3	ND	1,700	310	84	2,300	NA	
	9/20/10	ND@1	ND@1	ND@1	ND@3	ND	1,700	750	78	2,000	NA	
	10/26/10	ND@1	ND@1	ND@1	ND@3	ND	2,400	900	130	2,800	NA	
	11/23/10	ND@1	ND@1	ND@1	ND@3	ND	2,400	940	130	3,400	NA	
	12/20/10	ND@1	ND@1	ND@1	ND@3	ND	2,200	920	87	2,100	NA	
	2/28/11	ND@1	ND@1	ND@1	ND@3	ND	2,400	1,200	130	2,400	NA	
	3/22/11	ND@1	ND@1	ND@1	ND@3	ND	2,300	1,000	99	1,800	NA	
	4/26/11	ND@1	ND@1	ND@1	ND@3	ND	2,500	800	120	3,500	NA	
	5/25/11	ND@1	ND@1	ND@1	ND@3	ND	2,200	390	100	2,900	NA	
	6/29/11	ND@1	ND@1	ND@1	ND@3	ND	1,700	ND@20	75	2,000	NA	
	9/22/11	ND@1	ND@1	ND@1	ND@3	ND	1,200	350	50	850	NA	
	12/8/11	ND@1	ND@1	ND@1	ND@3	ND	2,300	630	110	1,600	NA	
3/1/12	ND@1	ND@1	ND@1	ND@3	ND	1,300	320	60	1,700	NA		
6/5/12	ND@1	ND@1	ND@1	ND@3	ND	1,300	330	53	1,300	NA		
9/12/12	ND@1	ND@1	ND@1	ND@3	ND	1,600	490	68	1,400	NA		
12/6/12	ND@1	ND@1	ND@1	ND@3	ND	1,400	230	65	1,500	NA		
3/11/13	ND@1	ND@1	ND@1	ND@3	ND	810	78	34	660	NA		
6/6/13	ND@1	ND@1	ND@1	ND@3	ND	750	48	35	820	NA		

Table 2
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Fallston, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-7	7/26/05	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	ND@100	ND@0.56
	11/22/05	ND@1	ND@1	ND@1	ND@3	ND	ND@1	34	ND@25	NA	NA
	3/16/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	ND@100	ND@0.5
	6/30/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	ND@100	ND@0.5
	9/12/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	ND@100	ND@0.5
	12/7/06	ND@1	ND@1	ND@100	ND@3	ND	ND@1	ND@10	ND@10	ND@100	0.94
	3/28/07	ND@1	ND@1	ND@100	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	6/22/07	ND@1	ND@1	ND@100	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	9/25/07	ND@1	ND@1	ND@100	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	12/14/07	ND@1	ND@1	ND@100	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	3/14/08	ND@1	ND@1	ND@100	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	6/18/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	9/3/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	12/23/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	3/24/09	ND@1	ND@1	ND@1	ND@3	ND	1	ND@20	ND@10	ND@100	NA
	6/8/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/27/09	ND@1	ND@1	ND@1	ND@3	ND	13	ND@20	ND@10	ND@100	NA
	12/23/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/10/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/7/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/20/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/20/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/22/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/29/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/22/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/8/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/1/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/5/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/12/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/6/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
3/11/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	
6/6/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA	

Table 2
Monitoring Well Groundwater Analytical Results
 7-Eleven Store No. 22281
 Fallston, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-8A	3/28/07	ND@1	1	ND@100	ND@3	1	44	ND@10	ND@10	ND@100	ND@0.5
	6/22/07	ND@1	ND@1	ND@100	ND@3	ND	9	ND@10	ND@10	ND@100	ND@0.5
	9/25/07	ND@1	ND@1	ND@100	ND@3	ND	3	ND@10	ND@10	ND@100	ND@0.5
	12/14/07	ND@1	ND@1	ND@100	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	3/14/08	ND@1	ND@1	ND@100	ND@3	ND	3	ND@10	ND@10	ND@100	ND@0.5
	6/18/08	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	ND@0.5
	9/3/08	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	ND@0.5
	12/27/08	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	ND@0.5
	3/24/09	ND@1	ND@1	ND@1	ND@3	ND	4	ND@20	ND@10	ND@100	NA
	6/8/09	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	NA
	9/27/09	ND@1	ND@1	ND@1	ND@3	ND	5	ND@20	ND@10	ND@100	NA
	12/23/09	ND@1	ND@1	ND@1	ND@3	ND	7	ND@20	ND@10	ND@100	NA
	3/10/10	ND@1	ND@1	ND@1	ND@3	ND	17	ND@20	ND@10	ND@100	NA
	6/7/10	ND@1	ND@1	ND@1	ND@3	ND	13	ND@20	ND@10	ND@100	NA
	9/20/10	ND@1	ND@1	ND@1	ND@3	ND	24	ND@20	ND@10	ND@100	NA
	12/20/10	ND@1	ND@1	ND@1	ND@3	ND	9	ND@20	ND@10	ND@100	NA
	3/22/11	ND@1	ND@1	ND@1	ND@3	ND	21	ND@20	ND@10	ND@100	NA
	6/29/11	ND@1	ND@1	ND@1	ND@3	ND	30	ND@20	ND@10	ND@100	NA
	9/22/11	ND@1	ND@1	ND@1	ND@3	ND	30	ND@20	ND@10	ND@100	NA
	12/8/11	ND@1	ND@1	ND@1	ND@3	ND	33	ND@20	ND@10	ND@100	NA
3/1/12	ND@1	ND@1	ND@1	ND@3	ND	32	ND@20	ND@10	ND@100	NA	
6/5/12	ND@1	ND@1	ND@1	ND@3	ND	19	ND@20	ND@10	ND@100	NA	
9/12/12	ND@1	2.1	ND@1	ND@3	2.1	43	ND@20	ND@10	ND@100	NA	
12/6/12	ND@1	ND@1	ND@1	ND@3	ND	38	ND@20	ND@10	ND@100	NA	
3/11/13	ND@1	ND@1	ND@1	ND@3	ND	32	ND@20	ND@10	ND@100	NA	
6/6/13	ND@1	ND@1	ND@1	ND@3	ND	28	ND@20	ND@10	ND@100	NA	
MW-8B	10/15/07	ND@1	1	ND@1	ND@3	1	14	ND@10	ND@10	ND@100	ND@0.5
	12/14/07	ND@1	ND@1	ND@100	ND@3	ND	15	ND@10	ND@10	ND@100	ND@0.5
	3/14/08	ND@1	ND@1	ND@100	ND@3	ND	16	ND@10	ND@10	ND@100	ND@0.5
	6/18/08	ND@1	ND@1	ND@1	ND@3	ND	24	ND@20		ND@100	ND@0.5
	9/3/08	ND@1	ND@1	ND@1	ND@3	ND	28	ND@20	ND@10	ND@100	ND@0.5
	12/27/08	ND@1	ND@1	ND@1	ND@3	ND	23	ND@20	ND@10	ND@100	ND@0.5
	3/24/09	ND@1	ND@1	ND@1	ND@3	ND	39	ND@20	ND@10	ND@100	NA
	6/8/09	ND@1	ND@1	ND@1	ND@3	ND	64	25	ND@10	ND@100	NA
	9/27/09	ND@1	ND@1	ND@1	ND@3	ND	77	31	ND@10	ND@100	NA
	12/23/09	ND@1	ND@1	ND@1	ND@3	ND	93	31	ND@10	ND@100	NA
	3/10/10	ND@1	ND@1	ND@1	ND@3	ND	100	33	ND@10	ND@100	NA
	6/7/10	ND@1	ND@1	ND@1	ND@3	ND	56	ND@20	ND@10	ND@100	NA
	9/20/10	ND@1	ND@1	ND@1	ND@3	ND	65	ND@20	ND@10	ND@100	NA
	12/20/10	ND@1	ND@1	ND@1	ND@3	ND	56	ND@20	ND@10	ND@100	NA
	3/22/11	ND@1	ND@1	ND@1	ND@3	ND	34	ND@20	ND@10	ND@100	NA
	6/29/11	ND@1	ND@1	ND@1	ND@3	ND	29	ND@20	ND@10	ND@100	NA
	9/22/11	ND@1	ND@1	ND@1	ND@3	ND	22	ND@20	ND@10	ND@100	NA
	12/8/11	ND@1	ND@1	ND@1	ND@3	ND	28	ND@20	ND@10	ND@100	NA
	3/1/12	ND@1	ND@1	ND@1	ND@3	ND	22	ND@20	ND@10	ND@100	NA
	6/5/12	ND@1	ND@1	ND@1	ND@3	ND	12	ND@20	ND@10	ND@100	NA
9/12/12	ND@1	ND@1	ND@1	ND@3	ND	18	ND@20	ND@10	ND@100	NA	
12/6/12	ND@1	280	ND@1	ND@3	280	15	ND@20	ND@10	670	NA	
3/11/13	ND@1	75	ND@1	ND@3	75	17	ND@20	ND@10	150	NA	
6/6/13	ND@1	2.1	ND@1	ND@3	2.1	17	ND@20	ND@10	ND@100	NA	

Table 2
Monitoring Well Groundwater Analytical Results
 7-Eleven Store No. 22281
 Fallston, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-9	3/10/10	ND@1	ND@1	ND@1	ND@3	ND	1,800	490	75	1,600	NA
	5/6/10	ND@1	ND@1	ND@1	ND@3	ND	1,200	330	52	1,300	NA
	6/7/10	ND@1	ND@1	ND@1	ND@3	ND	990	290	33	910	NA
	7/31/10	ND@1	ND@1	ND@1	ND@3	ND	1,600	480	71	2,100	NA
	8/16/10	ND@1	ND@1	ND@1	ND@3	ND	1,300	350	49	1,600	NA
	9/20/10	ND@1	ND@1	ND@1	ND@3	ND	990	340	34	1,100	NA
	10/26/10	ND@1	ND@1	ND@1	ND@3	ND	1,300	500	52	1,400	NA
	11/23/10	ND@1	ND@1	ND@1	ND@3	ND	1,200	360	50	1,300	NA
	12/20/10	ND@1	ND@1	ND@1	ND@3	ND	1,400	470	48	1,400	NA
	2/28/11	ND@1	ND@1	ND@1	ND@3	ND	1,200	190	57	1,300	NA
	3/22/11	ND@1	ND@1	ND@1	ND@3	ND	1,100	340	42	850	NA
	4/26/11	ND@1	ND@1	ND@1	ND@3	ND	1,300	320	59	1,800	NA
	5/25/11	ND@1	ND@1	ND@1	ND@3	ND	1,200	150	53	1,500	NA
	6/29/11	ND@1	ND@1	ND@1	ND@3	ND	1,600	200	68	1,700	NA
	9/22/11	ND@1	ND@1	ND@1	ND@3	ND	2,200	690	ND@100	1,300	NA
	12/8/11	ND@1	ND@1	ND@1	ND@3	ND	2,000	560	95	1,500	NA
	3/1/12	ND@1	ND@1	ND@1	ND@3	ND	1,800	790	81	2,300	NA
	6/5/12	1.3	ND@1	ND@1	ND@3	ND	3,900	1,600	160	3,800	NA
	9/12/12	1.1	ND@1	ND@1	ND@3	1.1	2,500	1,200	130	2,700	NA
	12/6/12	ND@1	ND@1	ND@1	ND@3	ND	1,600	840	90	1,900	NA
3/11/13	ND@1	ND@1	ND@1	ND@3	ND	2,500	1,100	97	2,000	NA	
6/6/13	ND@1	ND@1	ND@1	ND@3	ND	2,000	920	83	2,100	NA	
MW-10	3/10/10	6	ND@1	ND@1	11	17	17,000	5,400	810	18,000	NA
	5/6/10	3	ND@1	1	4	8	8,300	2,800	350	10,000	NA
	6/7/10	1	ND@1	ND@1	1	2	4,700	1,700	350	5,200	NA
	7/31/10	1	ND@1	ND@1	2	3	6,600	4,200	330	8,500	NA
	8/16/10	2	ND@1	ND@1	2	4	6,600	3,600	330	9,200	NA
	9/20/10	1	ND@1	ND@1	1	2	5,600	5,700	250	6,900	NA
	10/26/10	1	ND@1	ND@1	1	2	6,100	6,600	280	7,100	NA
	11/23/10	2	ND@1	ND@1	3	5	7,700	4,800	410	9,400	NA
	12/20/10	2	ND@1	ND@1	4	6	11,000	9,600	470	12,000	NA
	2/28/11	ND@1	ND@1	ND@1	ND@3	ND	8,300	5,200	530	11,000	NA
	3/22/11	ND@1	ND@1	ND@1	ND@3	ND	5,700	4,600	240	5,900	NA
	4/26/11	2	ND@1	ND@1	3	5	5,600	6,000	290	8,000	NA
	5/25/11	2	ND@1	ND@1	3	5	5,800	6,000	270	7,500	NA
	6/29/11	ND@5	ND@5	ND@5	ND@15	ND	4,100	4,400	180	4,800	NA
	9/22/11	ND@20	ND@20	ND@20	ND@60	ND	2,700	1,700	180	1,800	NA
	12/8/11	ND@1	ND@1	ND@1	ND@3	ND	2,700	2,900	120	1,900	NA
	3/1/12	ND@1	ND@1	ND@1	ND@3	ND	1,100	1,100	51	1,500	NA
	6/5/12	ND@1	ND@1	ND@1	ND@3	ND	1,000	920	34	1,100	NA
	9/12/12	ND@1	ND@1	ND@1	ND@3	ND	1,000	1,000	41	1,100	NA
	12/6/12	ND@1	ND@1	ND@1	ND@3	ND	1,000	1,500	50	1,100	NA
3/11/13	ND@1	ND@1	ND@1	ND@3	ND	880	1,300	37	750	NA	
6/6/13	ND@1	ND@1	ND@1	ND@3	ND	520	810	23	660	NA	

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 Fallston, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-11	1/5/11	6	ND@1	ND@1	14	20	11,000	14,000	660	16,000	NA
	3/22/11	4	ND@1	ND@1	7	11	8,800	9,600	440	10,000	NA
	4/26/11	2	ND@1	ND@1	3	5	5,800	7,200	300	7,600	NA
	5/25/11	1	ND@1	ND@1	1	2	3,900	3,500	200	5,200	NA
	6/29/11	ND@5	ND@5	ND@5	ND@15	ND	4,000	4,300	170	4,400	NA
	9/22/11	ND@20	ND@20	ND@20	ND@60	ND	3,300	2,300	ND@200	1,900	NA
	12/8/11	ND@1	ND@1	ND@1	ND@3	ND	2,200	2,700	91	1,500	NA
	3/1/12	ND@1	ND@1	ND@1	ND@3	ND	1,100	1,300	51	1,500	NA
	6/5/12	ND@1	ND@1	ND@1	ND@3	ND	900	1,100	30	950	NA
	9/12/12	ND@1	ND@1	ND@1	ND@3	ND	1,400	2,400	61	1,500	NA
	12/6/12	ND@1	ND@1	ND@1	ND@3	ND	1,400	2,800	76	1,500	NA
	3/11/13	ND@1	ND@1	ND@1	ND@3	ND	1,100	3,700	47	940	NA
	6/6/13	ND@1	ND@1	ND@1	ND@3	ND	590	1,700	25	690	NA
MW-12	1/5/11	ND@1	ND@1	ND@1	ND@3	ND	560	56	20	670	NA
	3/22/11	ND@1	ND@1	ND@1	ND@3	ND	420	84	13	340	NA
	4/26/11	ND@1	ND@1	ND@1	ND@3	ND	530	94	18	700	NA
	5/25/11	ND@1	ND@1	ND@1	ND@3	ND	520	390	17	660	NA
	6/29/11	ND@5	ND@5	ND@5	ND@15	ND	540	110	ND@50	610	NA
	9/22/11	ND@5	ND@5	ND@5	ND@15	ND	380	ND@100	ND@50	270	NA
	12/8/11	ND@1	ND@1	ND@1	ND@3	ND	490	88	14	400	NA
	3/1/12	ND@1	ND@1	ND@1	ND@3	ND	380	120	12	490	NA
	6/5/12	ND@1	ND@1	ND@1	ND@3	ND	240	46	ND@10	300	NA
	9/12/12	ND@1	ND@1	ND@1	ND@3	ND	220	61	ND@10	240	NA
	12/6/12	ND@1	ND@1	ND@1	ND@3	ND	160	32	ND@10	170	NA
	3/11/13	ND@1	ND@1	ND@1	ND@3	ND	160	72	ND@10	130	NA
	6/6/13	ND@1	ND@1	ND@1	ND@3	ND	140	ND@20	ND@10	150	NA
MW-13	1/5/11	ND@1	ND@1	ND@1	ND@3	ND	590	70	25	660	NA
	3/22/11	ND@1	ND@1	ND@1	ND@3	ND	510	96	19	410	NA
	4/26/11	ND@1	ND@1	ND@1	ND@3	ND	560	99	24	730	NA
	5/25/11	ND@1	ND@1	ND@1	ND@3	ND	700	42	28	880	NA
	6/29/11	ND@5	ND@5	ND@5	ND@15	ND	770	ND@100	ND@50	750	NA
	9/22/11	ND@5	ND@5	ND@5	ND@15	ND	850	170	ND@50	530	NA
	12/8/11	ND@1	ND@1	ND@1	ND@3	ND	1,100	92	47	840	NA
	3/1/12	ND@1	ND@1	ND@1	ND@3	ND	1,600	210	82	2,000	NA
	6/5/12	ND@1	ND@1	ND@1	ND@3	ND	1,200	130	53	1,400	NA
	9/12/12	ND@1	ND@1	ND@1	ND@3	ND	1,000	150	44	1,100	NA
	12/6/12	ND@1	ND@1	ND@1	ND@3	ND	770	450	40	900	NA
	3/11/13	ND@1	ND@1	ND@1	ND@3	ND	1,000	180	50	940	NA
	6/6/13	ND@1	ND@1	ND@1	ND@3	ND	860	290	39	1,000	NA
HW-1	3/16/06	100	880	ND@5	1,690	2,670	3,700	1,800	ND@130	41,000	3.6
	6/30/06	8	E 380	170	E 790	178	62	56	ND@25	2,700	LF/DF 2
	9/12/06										
	12/7/06										
	3/28/07										
	6/13/07										
	9/25/07										
	12/14/07										
	3/14/08										
	6/18/08										
	9/3/08										
	12/23/08										

Table 2
Monitoring Well Groundwater Analytical Results
 7-Eleven Store No. 22281
 Fallston, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)	
HW-2	3/16/06					*Not Sampled, Well Dry						
	6/30/06					*Not Sampled, Well Dry						
	9/12/06					*Not Sampled, Well Dry						
	12/7/06					*Not Sampled, Well Dry						
	3/28/07					*Not Sampled, Well Dry						
	6/13/07					*Not Sampled, Well Dry						
	9/25/07					*Not Sampled, Well Dry						
	12/14/07					*Not Sampled, Well Dry						
	3/14/08					*Not Sampled, Well Dry						
	6/18/08					*Not Sampled, Well Dry						
	9/3/08					*Not Sampled, Well Dry						
	12/23/08					*Not Sampled, Well Dry						
	3/24/09					*Not Sampled, Well Dry						
	6/8/09					*Not Sampled, Well Dry						
	9/27/09					*Not Sampled, Well Dry						
	12/23/09					*Not Sampled, Well Dry						
3/10/10					*Not Sampled, Well Dry							
6/7/10					*Not Sampled, Well Dry							
HW-3	1/23/07	2	ND@1	ND@1	ND@3	2	6,600	230	250	510	ND@0.5	
	3/28/07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/22/07	4	ND@1	ND@1	3	7	5,800	440	380	900	ND@0.5	
	9/25/07	6	ND@1	ND@1	4	10	E 7,200	E 730	E 660	1,600	ND@0.5	
	12/14/07	4	ND@1	ND@1	2	6	E 6,300	E 470	E600	1,100	ND@0.5	
	3/14/08	ND@50	ND@50	ND@50	ND@350	ND	7,100	ND@500	ND@500	9,000	ND@0.5	
	6/18/08	ND@50	ND@50	ND@50	ND@350	ND	7,700	ND@1000	ND@500	1,500	ND@0.5	
	9/3/08	5	ND@1	ND@1	3	8	6,500	E 750	E 750	3,100	ND@0.5	
	12/27/08	ND@10	ND@10	ND@10	ND@30	ND	7,600	530	590	2,700	ND@0.5	
	3/24/09	2	ND@1	ND@1	1	3	9,000	790	660	1,500	NA	
	6/8/09	2	ND@1	ND@1	ND@3	2	7,000	490	600	2,500	NA	
	9/27/09	1	ND@1	ND@1	ND@3	1	6,600	380	510	10,000	NA	
	12/23/09	ND@1	ND@1	ND@1	ND@3	ND	3,800	230	310	4,700	NA	
	3/10/10	ND@1	ND@1	ND@1	ND@3	ND	3,400	880	240	4,300	NA	
	5/6/10	ND@1	ND@1	ND@1	ND@3	ND	3,000	900	230	4,000	NA	
	6/7/10	ND@1	ND@1	ND@1	ND@3	ND	1,400	370	110	1,400	NA	
	7/31/10	ND@1	ND@1	ND@1	ND@3	ND	4,900	580	420	7,000	NA	
	8/16/10	1	ND@1	ND@1	ND@3	ND	5,900	740	490	8,600	NA	
	9/20/10	ND@1	ND@1	ND@1	ND@3	ND	490	54	34	590	NA	
	10/26/10	ND@1	ND@1	ND@1	ND@3	ND	3,900	580	330	4,500	NA	
	11/23/10	ND@1	ND@1	ND@1	ND@3	ND	4,400	760	350	5,200	NA	
	12/20/10	ND@1	ND@1	ND@1	ND@3	ND	6,500	1,200	440	7,400	NA	
	2/28/11	ND@1	ND@1	ND@1	ND@3	ND	4,600	930	410	5,900	NA	
	3/22/11	ND@1	ND@1	ND@1	ND@3	ND	4,500	1,400	290	4,200	NA	
	6/29/11	ND@5	ND@5	ND@5	ND@15	ND	5,600	1,000	330	7,300	NA	
	9/22/11	ND@20	ND@20	ND@20	ND@60	ND	3,200	940	ND@200	2,700	NA	
	12/8/11	ND@1	ND@1	ND@1	ND@3	ND	3,100	1,100	170	2,800	NA	
	3/1/12	Inadvertently Not Sampled*										
	6/5/12	ND@1	ND@1	ND@1	ND@3	ND	3,600	1,200	210	3,900	NA	
	9/12/12	ND@1	ND@1	ND@1	ND@3	ND	3,600	1,800	160	3,600	NA	
12/6/12	ND@1	ND@1	ND@1	ND@3	ND	940	460	49	960	NA		
3/11/13	ND@1	ND@1	ND@1	ND@3	ND	500	190	24	510	NA		
6/6/13	ND@1	ND@1	ND@1	ND@3	ND	1100	450	52	1,200	NA		
MDE CLEANUP STD		5	1,000	700	10,000	--	20	--	--	47	0.047	
BTEX - Total Benzene, Toluene, Ethylbenzene and Xylenes						ND@x - not detected above laboratory detection level of x						
MTBE - methyl tert-butyl ether						ND - not detected						
µg/L - micrograms-per-liter						NA - not analyzed						
mg/L - milligrams-per-liter						E - estimated value, exceeds calibration range of laboratory equipment						
* Well not sampled due to insufficient amount of water						LF - lighter fuel/oil pattern observed in sample						

Table 3
Monitoring Well Groundwater Nutrient Analytical
7-Eleven Store No. 22281
Fallston, Maryland

Sample ID	Date	Nitrate (mg/L)	Nitrite (mg/L)	Orthophosphate (mg/L)
MW-6	2/14/2013	73	0.21	BDL
	3/11/2013	74	0.26	2.02
	6/6/2013	190	0.14	BDL
MW-9	2/14/2013	15	0.15	1.42
	3/11/2013	17	0.2	0.32
	6/6/2013	23	BDL	2.32
MW-11	2/14/2013	7.8	0.17	0.17
	3/11/2013	8.3	0.18	2.19
	6/6/2013	7.9	BDL	0.15
MW-13	2/14/2013	28	0.19	2.44
	3/11/2013	19	0.22	1.02
	6/6/2013	28	BDL	1.87
HW-3	2/14/2013	850	3.3	745
	3/11/2013	880	7.9	746
	6/6/2013	960	3.3	764

mg/L - milligrams per liter

BDL - Below Laboratory Detection Limits

ATTACHMENT A

MDE Approval Letter (March 6, 2013)



MARYLAND DEPARTMENT OF THE ENVIRONMENT

Oil Control Program, Suite 620, 1800 Washington Blvd., Baltimore MD 21230-1719

410-537-3442 • 410-537-3092 (fax)

1-800-633-6101

Martin O'Malley
Governor

Robert M. Summers, Ph.D.
Secretary

Anthony G. Brown
Lieutenant Governor

March 6, 2012

Mr. Jose Rios
Manager, Environmental Services
7-Eleven, Inc.
One Arts Plaza
1722 Routh Street, Suite 1000
Dallas TX 75201

RE: PILOT TEST WORK PLAN APPROVAL

Case No. 2005-0120-HA

Pleasantville 7-Eleven #22281

2400 Pleasantville Road, Fallston

Harford County, Maryland

Facility I.D. No. 6375

Dear Mr. Rios:

The Oil Control Program recently completed a review of the case file for the above-referenced property, including the *Fourth Quarter 2011 Monitoring and Sampling Report - January 16, 2012*; the *Revised Bio-Augmentation Pilot Test Work Plan - January 16, 2012*; and the *Response to MDE Questions to Revised Bio-Augmentation Pilot Test Work Plan - February 17, 2012*. In September 2008, three 12,000-gallon first-generation gasoline underground storage tanks (USTs) were removed. The USTs were subsequently replaced with the existing second-generation UST system: a 10,000-gallon gasoline; and a 15,000-gallon gasoline. Following UST replacement, the long-term soil vacuum extraction (SVE) pilot test was discontinued; and a bio-augmentation pilot test was implemented from November 2008 through April 2009, utilizing a trench for injection of bio-augmentation materials. Between April 2010 and June 2011, an additional six-month bio-augmentation pilot test was conducted, with direct injection of bio-augmentation materials into wells HW-3, MW-4A, MW-9, and MW-10.

Currently, there are 17 on-site and 2 off-site monitoring wells. Sampling of the monitoring well network in December 2011 detected methyl tertiary-butyl ether (MTBE) at 3,100 parts per billion (ppb) and total petroleum hydrocarbons/gasoline-range organics (TPH/GRO) at 1,900 ppb. The most recent pre-filtration sample collected from the on-site drinking water supply well in October 2011 was below regulatory levels for petroleum constituents. Sampling of the off-site drinking water supply well at 2414 Pleasantville Road (Dental Technology Associates) in December 2011 was non-detect for petroleum constituents.

The *Revised Bio-Augmentation Pilot Test Work Plan* and *Response to MDE Questions* propose an additional 9-month pilot test of bio-augmentation materials. Two additional trenches containing 4-inch diameter injection wells are to be installed. Bio-augmentation materials would be gravity-fed into the injection wells, which would also house iSOC® diffusers. Quarterly sampling events at the subject property would include biological parameters for select monitoring wells. Based on our review, the Department approves the proposal contingent upon the following modifications:

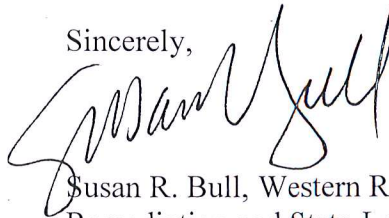
- 1) For the first 90 days after initiating *CAP* activities at the subject property, submit monthly *Update Reports* to the Oil Control Program regarding the progress of remedial activities.
- 2) **No later than January 30, 2013**, submit a *Revised Site Conceptual Model (SCM)* to reflect updated pilot testing and sampling, and address the environmental issues at and around the subject property for our review and approval. A *SCM* compiles all currently known and/or available data for the site and is used to predict the source, fate, and transport of contaminants of concern. Normally created at the beginning of any site investigation, the *SCM* is continually refined with the acquisition of new data until resolution.
- 3) **No later than January 30, 2013**, submit a *Pilot Test Update Report* detailing the results of the bio-augmentation pilot test. Additionally, the report must make recommendations for future actions at the site, including remedial goals and endpoints, and any revisions to the existing *CAP*. After receipt and review of the *Revised SCM* and *Pilot Test Update Report*, the Department will re-evaluate the proposed *CAP*.
- 4) Continue **quarterly (every three months)** sampling of all monitoring wells and tank field monitoring pipes. All samples collected must be analyzed for full-suite volatile organic compounds (VOCs), including fuel oxygenates, using EPA Method 8260 and for total petroleum hydrocarbons/gasoline-range organics (TPH/GRO) using EPA Method 8015B/C.
- 5) Continue **quarterly** sampling of the on-site drinking water supply well. All samples collected must be analyzed for full-suite VOCs, including fuel oxygenates, using EPA Method 524.2. Since a granular activated carbon (GAC) filtration system is present, samples must be collected pre-, mid-, and post-filtration. **Please ensure that the results of these sampling events (including analytical results) are submitted to the Department in a timely manner.**
- 6) Continue **semi-annual (every six months)** sampling of the drinking water supply well located at 2414 Pleasantville Road (Dental Technology). All samples collected must be analyzed for full-suite VOCs, including fuel oxygenates, using EPA Method 524.2. Since a GAC filtration system is present, samples must be collected pre-, mid-, and post-filtration. Copies of the sampling results must be submitted to the property owner, the Harford County Health Department, and the Oil Control Program.

When submitting documentation to the Oil Control Program, please reference Case No. 2005-0120-HA and provide three hard copies and an electronic copy on a labeled compact disc (CD) to the attention of the case manager at the above letterhead address.

Mr. Jose Rios
Case No. 2005-0120-HA
Page Three

If you have any questions, please contact the case manager, Jeannette DeBartolomeo, at 410-537-3427 (jdebartolomeo@mde.state.md.us) or me at 410-537-3499 (sbull@mde.state.md.us).

Sincerely,



Susan R. Bull, Western Region Section Head
Remediation and State-Lead Division
Oil Control Program

JD/nln

cc: Ms. Marie Treiber (AECOM)
Mr. Peter Smith (Harford County Health Dept.)
Mr. Andrew B. Miller
Mr. Christopher H. Ralston
Mr. Horacio Tablada

ATTACHMENT B

Laboratory Analytical Reports (Quarterly Groundwater Sampling)

Analytical Report for

AECOM

Certificate of Analysis No.: 12091301

Project Manager: John Canzeri

Project Name : 7-11 Fallston #22281

Project Location: Fallston, MD

Project ID : 60144763



September 20, 2012

Phase Separation Science, Inc.

6630 Baltimore National Pike

Baltimore, MD 21228

Phone: (410) 747-8770

Fax: (410) 788-8723

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ROUTE 40 WEST
BALTIMORE, MD 21228
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PHASE SEPARATION SCIENCE, INC.



September 20, 2012

John Canzeri
AECOM
8320 Guilford Road, Ste. L
Columbia, MD 21046

Reference: PSS Work Order No: **12091301**
Project Name: 7-11 Fallston #22281
Project Location: Fallston, MD
Project ID.: 60144763

Dear John Canzeri :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **12091301**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 18, 2012. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Dan Prucnal
Laboratory Manager



Sample Summary
Client Name: AECOM
Project Name: 7-11 Fallston #22281

Project ID: 60144763

Work Order Number: 12091301

The following samples were received under chain of custody by Phase Separation Science (PSS) on 09/13/2012 at 08:10 am

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
12091301-001	MW 1A	GROUND WATER	09/12/2012 11:00
12091301-002	MW 1B	GROUND WATER	09/12/2012 11:20
12091301-003	MW 2	GROUND WATER	09/12/2012 13:00
12091301-004	MW 3A	GROUND WATER	09/12/2012 11:40
12091301-005	MW 3B	GROUND WATER	09/12/2012 12:00
12091301-006	MW 4A	GROUND WATER	09/12/2012 16:00
12091301-007	MW 4B	GROUND WATER	09/12/2012 13:40
12091301-008	MW 5	GROUND WATER	09/12/2012 12:40
12091301-009	MW 6	GROUND WATER	09/12/2012 16:20
12091301-010	MW 7	GROUND WATER	09/12/2012 12:20
12091301-011	MW 8A	GROUND WATER	09/12/2012 15:00
12091301-012	MW 8B	GROUND WATER	09/12/2012 15:10
12091301-013	MW 9	GROUND WATER	09/12/2012 15:50
12091301-014	MW 10	GROUND WATER	09/12/2012 16:10
12091301-015	MW 11	GROUND WATER	09/12/2012 15:10
12091301-016	MW 12	GROUND WATER	09/12/2012 14:10
12091301-017	MW 13	GROUND WATER	09/12/2012 14:40

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the LOD.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.



Case Narrative Summary

Client Name: AECOM

Project Name: 7-11 Fallston #22281

Project ID: 60144763

Work Order Number: 12091301

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Sample Receipt:

All sample receipt conditions were acceptable.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

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 6630 BALTIMORE NATIONAL PIKE
 ROUTE 40 WEST
 BALTIMORE, MD 21228
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 800-932-9047
 FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 1A	Date/Time Sampled: 09/12/2012 11:00	PSS Sample ID: 12091301-001
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	09/13/12	09/13/12 14:28	1035

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 BALTIMORE, MD 21228
 410-747-8770
 800-932-9047
 FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 1A	Date/Time Sampled: 09/12/2012 11:00	PSS Sample ID: 12091301-001
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
Chloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
Vinyl Chloride	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
tert-Butyl alcohol	ND	ug/L	20		1	09/14/12	09/14/12 19:40	1011
Bromomethane	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
Chloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
Acetone	ND	ug/L	10		1	09/14/12	09/14/12 19:40	1011
Cyclohexane	ND	ug/L	10		1	09/14/12	09/14/12 19:40	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	09/14/12	09/14/12 19:40	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
Methylene Chloride	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
2-Butanone (MEK)	ND	ug/L	10		1	09/14/12	09/14/12 19:40	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
Bromochloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
Chloroform	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
Benzene	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
Methyl Acetate	ND	ug/L	10		1	09/14/12	09/14/12 19:40	1011
Methylcyclohexane	ND	ug/L	10		1	09/14/12	09/14/12 19:40	1011
Trichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
Carbon Disulfide	ND	ug/L	10		1	09/14/12	09/14/12 19:40	1011
Bromodichloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
September 20, 2012

Project Name: 7-11 Fallston #22281
Project Location: Fallston, MD
Project ID: 60144763

Sample ID: MW 1A **Date/Time Sampled: 09/12/2012 11:00** **PSS Sample ID: 12091301-001**
Matrix: GROUND WATER **Date/Time Received: 09/13/2012 08:10**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>Flag</u>	<u>Dil</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	09/14/12	09/14/12 19:40	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
Toluene	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
2-Hexanone	ND	ug/L	10		1	09/14/12	09/14/12 19:40	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
Dibromochloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	09/14/12	09/14/12 19:40	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	09/14/12	09/14/12 19:40	1011
Diisopropyl ether	ND	ug/L	10		1	09/14/12	09/14/12 19:40	1011
tert-Amyl methyl ether	ND	ug/L	10		1	09/14/12	09/14/12 19:40	1011
tert-Amyl alcohol	ND	ug/L	20		1	09/14/12	09/14/12 19:40	1011
Bromoform	ND	ug/L	5.0		1	09/14/12	09/14/12 19:40	1011
Tetrachloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
Chlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
Ethylbenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
m,p-Xylenes	ND	ug/L	2.0		1	09/14/12	09/14/12 19:40	1011
Styrene	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
o-Xylene	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
Isopropylbenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	09/14/12	09/14/12 19:40	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
Naphthalene	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 19:40	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 1B	Date/Time Sampled: 09/12/2012 11:20	PSS Sample ID: 12091301-002
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	09/13/12	09/13/12 14:54	1035

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CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 1B **Date/Time Sampled: 09/12/2012 11:20** **PSS Sample ID: 12091301-002**
Matrix: GROUND WATER **Date/Time Received: 09/13/2012 08:10**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011
Chloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011
Vinyl Chloride	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011
tert-Butyl alcohol	ND	ug/L	20		1	09/14/12	09/14/12 20:10	1011
Bromomethane	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011
Chloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011
Acetone	ND	ug/L	10		1	09/14/12	09/14/12 20:10	1011
Cyclohexane	ND	ug/L	10		1	09/14/12	09/14/12 20:10	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	09/14/12	09/14/12 20:10	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011
Methylene Chloride	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011
2-Butanone (MEK)	ND	ug/L	10		1	09/14/12	09/14/12 20:10	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011
Bromochloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011
Chloroform	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011
Benzene	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011
Methyl Acetate	ND	ug/L	10		1	09/14/12	09/14/12 20:10	1011
Methylcyclohexane	ND	ug/L	10		1	09/14/12	09/14/12 20:10	1011
Trichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011
Carbon Disulfide	ND	ug/L	10		1	09/14/12	09/14/12 20:10	1011
Bromodichloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	09/14/12	09/14/12 20:10	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 2	Date/Time Sampled: 09/12/2012 13:00	PSS Sample ID: 12091301-003
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	09/13/12	09/13/12 15:19	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 3A	Date/Time Sampled: 09/12/2012 11:40	PSS Sample ID: 12091301-004
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	09/13/12	09/13/12 15:44	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 3A	Date/Time Sampled: 09/12/2012 11:40	PSS Sample ID: 12091301-004
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
Chloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
Vinyl Chloride	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
tert-Butyl alcohol	ND	ug/L	20		1	09/14/12	09/14/12 21:08	1011
Bromomethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
Chloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
Acetone	ND	ug/L	10		1	09/14/12	09/14/12 21:08	1011
Cyclohexane	ND	ug/L	10		1	09/14/12	09/14/12 21:08	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	09/14/12	09/14/12 21:08	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
Methylene Chloride	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
2-Butanone (MEK)	ND	ug/L	10		1	09/14/12	09/14/12 21:08	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
Bromochloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
Chloroform	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
Benzene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
Methyl Acetate	ND	ug/L	10		1	09/14/12	09/14/12 21:08	1011
Methylcyclohexane	ND	ug/L	10		1	09/14/12	09/14/12 21:08	1011
Trichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
Carbon Disulfide	ND	ug/L	10		1	09/14/12	09/14/12 21:08	1011
Bromodichloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
 AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 3A **Date/Time Sampled: 09/12/2012 11:40** **PSS Sample ID: 12091301-004**
Matrix: GROUND WATER **Date/Time Received: 09/13/2012 08:10**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	09/14/12	09/14/12 21:08	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
Toluene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
2-Hexanone	ND	ug/L	10		1	09/14/12	09/14/12 21:08	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
Dibromochloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	09/14/12	09/14/12 21:08	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	09/14/12	09/14/12 21:08	1011
Diisopropyl ether	ND	ug/L	10		1	09/14/12	09/14/12 21:08	1011
tert-Amyl methyl ether	ND	ug/L	10		1	09/14/12	09/14/12 21:08	1011
tert-Amyl alcohol	ND	ug/L	20		1	09/14/12	09/14/12 21:08	1011
Bromoform	ND	ug/L	5.0		1	09/14/12	09/14/12 21:08	1011
Tetrachloroethene	1.3	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
Chlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
Ethylbenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
m,p-Xylenes	ND	ug/L	2.0		1	09/14/12	09/14/12 21:08	1011
Styrene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
o-Xylene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
Isopropylbenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	09/14/12	09/14/12 21:08	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
Naphthalene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:08	1011

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CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 3B	Date/Time Sampled: 09/12/2012 12:00	PSS Sample ID: 12091301-005
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	09/13/12	09/13/12 16:09	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 3B **Date/Time Sampled: 09/12/2012 12:00** **PSS Sample ID: 12091301-005**
Matrix: GROUND WATER **Date/Time Received: 09/13/2012 08:10**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
Chloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
Vinyl Chloride	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
tert-Butyl alcohol	ND	ug/L	20		1	09/14/12	09/14/12 21:38	1011
Bromomethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
Chloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
Acetone	ND	ug/L	10		1	09/14/12	09/14/12 21:38	1011
Cyclohexane	ND	ug/L	10		1	09/14/12	09/14/12 21:38	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	09/14/12	09/14/12 21:38	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
Methylene Chloride	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
2-Butanone (MEK)	ND	ug/L	10		1	09/14/12	09/14/12 21:38	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
Bromochloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
Chloroform	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
Benzene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
Methyl Acetate	ND	ug/L	10		1	09/14/12	09/14/12 21:38	1011
Methylcyclohexane	ND	ug/L	10		1	09/14/12	09/14/12 21:38	1011
Trichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
Carbon Disulfide	ND	ug/L	10		1	09/14/12	09/14/12 21:38	1011
Bromodichloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 3B	Date/Time Sampled: 09/12/2012 12:00	PSS Sample ID: 12091301-005
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	09/14/12	09/14/12 21:38	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
Toluene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
2-Hexanone	ND	ug/L	10		1	09/14/12	09/14/12 21:38	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
Dibromochloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	09/14/12	09/14/12 21:38	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	09/14/12	09/14/12 21:38	1011
Diisopropyl ether	ND	ug/L	10		1	09/14/12	09/14/12 21:38	1011
tert-Amyl methyl ether	ND	ug/L	10		1	09/14/12	09/14/12 21:38	1011
tert-Amyl alcohol	ND	ug/L	20		1	09/14/12	09/14/12 21:38	1011
Bromoform	ND	ug/L	5.0		1	09/14/12	09/14/12 21:38	1011
Tetrachloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
Chlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
Ethylbenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
m,p-Xylenes	ND	ug/L	2.0		1	09/14/12	09/14/12 21:38	1011
Styrene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
o-Xylene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
Isopropylbenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	09/14/12	09/14/12 21:38	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
Naphthalene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 21:38	1011

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CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 4A	Date/Time Sampled: 09/12/2012 16:00	PSS Sample ID: 12091301-006
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	490	ug/L	100		1	09/13/12	09/13/12 16:35	1035

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CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 4A **Date/Time Sampled: 09/12/2012 16:00** **PSS Sample ID: 12091301-006**
Matrix: GROUND WATER **Date/Time Received: 09/13/2012 08:10**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 22:07	1011
Chloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 22:07	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 22:07	1011
Vinyl Chloride	ND	ug/L	1.0		1	09/14/12	09/14/12 22:07	1011
tert-Butyl alcohol	110	ug/L	20		1	09/14/12	09/14/12 22:07	1011
Bromomethane	ND	ug/L	1.0		1	09/14/12	09/14/12 22:07	1011
Chloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 22:07	1011
Acetone	ND	ug/L	10		1	09/14/12	09/14/12 22:07	1011
Cyclohexane	ND	ug/L	10		1	09/14/12	09/14/12 22:07	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	09/14/12	09/14/12 22:07	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 22:07	1011
Methylene Chloride	ND	ug/L	1.0		1	09/14/12	09/14/12 22:07	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 22:07	1011
Methyl-t-butyl ether	400	ug/L	10		10	09/14/12	09/14/12 22:36	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 22:07	1011
2-Butanone (MEK)	ND	ug/L	10		1	09/14/12	09/14/12 22:07	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 22:07	1011
Bromochloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 22:07	1011
Chloroform	10	ug/L	1.0		1	09/14/12	09/14/12 22:07	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 22:07	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 22:07	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	09/14/12	09/14/12 22:07	1011
Benzene	ND	ug/L	1.0		1	09/14/12	09/14/12 22:07	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	09/14/12	09/14/12 22:07	1011
Methyl Acetate	ND	ug/L	10		1	09/14/12	09/14/12 22:07	1011
Methylcyclohexane	ND	ug/L	10		1	09/14/12	09/14/12 22:07	1011
Trichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 22:07	1011
Carbon Disulfide	ND	ug/L	10		1	09/14/12	09/14/12 22:07	1011
Bromodichloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 22:07	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	09/14/12	09/14/12 22:07	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 4B	Date/Time Sampled: 09/12/2012 13:40	PSS Sample ID: 12091301-007
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	09/13/12	09/13/12 17:00	1035

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CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 4B	Date/Time Sampled: 09/12/2012 13:40	PSS Sample ID: 12091301-007
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
Chloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
Vinyl Chloride	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
tert-Butyl alcohol	ND	ug/L	20		1	09/14/12	09/14/12 23:06	1011
Bromomethane	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
Chloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
Acetone	ND	ug/L	10		1	09/14/12	09/14/12 23:06	1011
Cyclohexane	ND	ug/L	10		1	09/14/12	09/14/12 23:06	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	09/14/12	09/14/12 23:06	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
Methylene Chloride	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
2-Butanone (MEK)	ND	ug/L	10		1	09/14/12	09/14/12 23:06	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
Bromochloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
Chloroform	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
Benzene	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
Methyl Acetate	ND	ug/L	10		1	09/14/12	09/14/12 23:06	1011
Methylcyclohexane	ND	ug/L	10		1	09/14/12	09/14/12 23:06	1011
Trichloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
Carbon Disulfide	ND	ug/L	10		1	09/14/12	09/14/12 23:06	1011
Bromodichloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 4B **Date/Time Sampled: 09/12/2012 13:40** **PSS Sample ID: 12091301-007**
Matrix: GROUND WATER **Date/Time Received: 09/13/2012 08:10**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	09/14/12	09/14/12 23:06	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
Toluene	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
2-Hexanone	ND	ug/L	10		1	09/14/12	09/14/12 23:06	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
Dibromochloromethane	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	09/14/12	09/14/12 23:06	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	09/14/12	09/14/12 23:06	1011
Diisopropyl ether	ND	ug/L	10		1	09/14/12	09/14/12 23:06	1011
tert-Amyl methyl ether	ND	ug/L	10		1	09/14/12	09/14/12 23:06	1011
tert-Amyl alcohol	ND	ug/L	20		1	09/14/12	09/14/12 23:06	1011
Bromoform	ND	ug/L	5.0		1	09/14/12	09/14/12 23:06	1011
Tetrachloroethene	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
Chlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
Ethylbenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
m,p-Xylenes	ND	ug/L	2.0		1	09/14/12	09/14/12 23:06	1011
Styrene	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
o-Xylene	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
Isopropylbenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	09/14/12	09/14/12 23:06	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
Naphthalene	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/14/12 23:06	1011

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CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 5	Date/Time Sampled: 09/12/2012 12:40	PSS Sample ID: 12091301-008
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	09/13/12	09/13/12 17:25	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 6	Date/Time Sampled: 09/12/2012 16:20	PSS Sample ID: 12091301-009
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	1,400	ug/L	100		1	09/13/12	09/13/12 17:51	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 7	Date/Time Sampled: 09/12/2012 12:20	PSS Sample ID: 12091301-010
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	09/14/12	09/14/12 13:18	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 8A	Date/Time Sampled: 09/12/2012 15:00	PSS Sample ID: 12091301-011
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	09/14/12	09/14/12 13:43	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
 AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 8A **Date/Time Sampled: 09/12/2012 15:00** **PSS Sample ID: 12091301-011**
Matrix: GROUND WATER **Date/Time Received: 09/13/2012 08:10**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	09/14/12	09/15/12 06:26	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	09/14/12	09/15/12 06:26	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 06:26	1011
Toluene	2.1	ug/L	1.0		1	09/14/12	09/15/12 06:26	1011
2-Hexanone	ND	ug/L	10		1	09/14/12	09/15/12 06:26	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	09/14/12	09/15/12 06:26	1011
Dibromochloromethane	ND	ug/L	1.0		1	09/14/12	09/15/12 06:26	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	09/14/12	09/15/12 06:26	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	09/14/12	09/15/12 06:26	1011
Diisopropyl ether	ND	ug/L	10		1	09/14/12	09/15/12 06:26	1011
tert-Amyl methyl ether	ND	ug/L	10		1	09/14/12	09/15/12 06:26	1011
tert-Amyl alcohol	ND	ug/L	20		1	09/14/12	09/15/12 06:26	1011
Bromoform	ND	ug/L	5.0		1	09/14/12	09/15/12 06:26	1011
Tetrachloroethene	ND	ug/L	1.0		1	09/14/12	09/15/12 06:26	1011
Chlorobenzene	ND	ug/L	1.0		1	09/14/12	09/15/12 06:26	1011
Ethylbenzene	ND	ug/L	1.0		1	09/14/12	09/15/12 06:26	1011
m,p-Xylenes	ND	ug/L	2.0		1	09/14/12	09/15/12 06:26	1011
Styrene	ND	ug/L	1.0		1	09/14/12	09/15/12 06:26	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 06:26	1011
o-Xylene	ND	ug/L	1.0		1	09/14/12	09/15/12 06:26	1011
Isopropylbenzene	ND	ug/L	1.0		1	09/14/12	09/15/12 06:26	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/15/12 06:26	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/15/12 06:26	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/15/12 06:26	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	09/14/12	09/15/12 06:26	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/15/12 06:26	1011
Naphthalene	ND	ug/L	1.0		1	09/14/12	09/15/12 06:26	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	09/14/12	09/15/12 06:26	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 8B	Date/Time Sampled: 09/12/2012 15:10	PSS Sample ID: 12091301-012
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	09/14/12	09/14/12 14:08	1035

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CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 8B **Date/Time Sampled: 09/12/2012 15:10** **PSS Sample ID: 12091301-012**
Matrix: GROUND WATER **Date/Time Received: 09/13/2012 08:10**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011
Chloromethane	ND	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011
Vinyl Chloride	ND	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011
tert-Butyl alcohol	ND	ug/L	20		1	09/14/12	09/15/12 06:56	1011
Bromomethane	ND	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011
Chloroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011
Acetone	ND	ug/L	10		1	09/14/12	09/15/12 06:56	1011
Cyclohexane	ND	ug/L	10		1	09/14/12	09/15/12 06:56	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	09/14/12	09/15/12 06:56	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011
Methylene Chloride	ND	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011
Methyl-t-butyl ether	18	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011
2-Butanone (MEK)	ND	ug/L	10		1	09/14/12	09/15/12 06:56	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011
Bromochloromethane	ND	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011
Chloroform	ND	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011
Benzene	ND	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011
Methyl Acetate	ND	ug/L	10		1	09/14/12	09/15/12 06:56	1011
Methylcyclohexane	ND	ug/L	10		1	09/14/12	09/15/12 06:56	1011
Trichloroethene	ND	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011
Carbon Disulfide	ND	ug/L	10		1	09/14/12	09/15/12 06:56	1011
Bromodichloromethane	ND	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	09/14/12	09/15/12 06:56	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 9	Date/Time Sampled: 09/12/2012 15:50	PSS Sample ID: 12091301-013
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	2,700	ug/L	100		1	09/14/12	09/14/12 14:33	1035

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CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 10	Date/Time Sampled: 09/12/2012 16:10	PSS Sample ID: 12091301-014
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	1,100	ug/L	100		1	09/14/12	09/14/12 14:59	1035

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CERTIFICATE OF ANALYSIS

No: 12091301
 AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 10 **Date/Time Sampled: 09/12/2012 16:10** **PSS Sample ID: 12091301-014**
Matrix: GROUND WATER **Date/Time Received: 09/13/2012 08:10**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:24	1011
Chloromethane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:24	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:24	1011
Vinyl Chloride	ND	ug/L	1.0		1	09/14/12	09/15/12 08:24	1011
tert-Butyl alcohol	1,000	ug/L	200		10	09/14/12	09/17/12 18:58	1011
Bromomethane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:24	1011
Chloroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:24	1011
Acetone	ND	ug/L	10		1	09/14/12	09/15/12 08:24	1011
Cyclohexane	ND	ug/L	10		1	09/14/12	09/15/12 08:24	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	09/14/12	09/15/12 08:24	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/15/12 08:24	1011
Methylene Chloride	ND	ug/L	1.0		1	09/14/12	09/15/12 08:24	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/15/12 08:24	1011
Methyl-t-butyl ether	1,000	ug/L	10		10	09/14/12	09/17/12 18:58	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:24	1011
2-Butanone (MEK)	ND	ug/L	10		1	09/14/12	09/15/12 08:24	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/15/12 08:24	1011
Bromochloromethane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:24	1011
Chloroform	21	ug/L	1.0		1	09/14/12	09/15/12 08:24	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:24	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:24	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	09/14/12	09/15/12 08:24	1011
Benzene	ND	ug/L	1.0		1	09/14/12	09/15/12 08:24	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:24	1011
Methyl Acetate	ND	ug/L	10		1	09/14/12	09/15/12 08:24	1011
Methylcyclohexane	ND	ug/L	10		1	09/14/12	09/15/12 08:24	1011
Trichloroethene	ND	ug/L	1.0		1	09/14/12	09/15/12 08:24	1011
Carbon Disulfide	ND	ug/L	10		1	09/14/12	09/15/12 08:24	1011
Bromodichloromethane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:24	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	09/14/12	09/15/12 08:24	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 11	Date/Time Sampled: 09/12/2012 15:10	PSS Sample ID: 12091301-015
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	1,500	ug/L	100		1	09/14/12	09/14/12 15:24	1035

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CERTIFICATE OF ANALYSIS

No: 12091301
 AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 11 **Date/Time Sampled: 09/12/2012 15:10** **PSS Sample ID: 12091301-015**
Matrix: GROUND WATER **Date/Time Received: 09/13/2012 08:10**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:53	1011
Chloromethane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:53	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:53	1011
Vinyl Chloride	ND	ug/L	1.0		1	09/14/12	09/15/12 08:53	1011
tert-Butyl alcohol	2,400	ug/L	400		20	09/14/12	09/17/12 19:28	1011
Bromomethane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:53	1011
Chloroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:53	1011
Acetone	ND	ug/L	10		1	09/14/12	09/15/12 08:53	1011
Cyclohexane	ND	ug/L	10		1	09/14/12	09/15/12 08:53	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	09/14/12	09/15/12 08:53	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/15/12 08:53	1011
Methylene Chloride	ND	ug/L	1.0		1	09/14/12	09/15/12 08:53	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/15/12 08:53	1011
Methyl-t-butyl ether	1,400	ug/L	20		20	09/14/12	09/17/12 19:28	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:53	1011
2-Butanone (MEK)	ND	ug/L	10		1	09/14/12	09/15/12 08:53	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/15/12 08:53	1011
Bromochloromethane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:53	1011
Chloroform	16	ug/L	1.0		1	09/14/12	09/15/12 08:53	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:53	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:53	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	09/14/12	09/15/12 08:53	1011
Benzene	ND	ug/L	1.0		1	09/14/12	09/15/12 08:53	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:53	1011
Methyl Acetate	ND	ug/L	10		1	09/14/12	09/15/12 08:53	1011
Methylcyclohexane	ND	ug/L	10		1	09/14/12	09/15/12 08:53	1011
Trichloroethene	ND	ug/L	1.0		1	09/14/12	09/15/12 08:53	1011
Carbon Disulfide	ND	ug/L	10		1	09/14/12	09/15/12 08:53	1011
Bromodichloromethane	ND	ug/L	1.0		1	09/14/12	09/15/12 08:53	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	09/14/12	09/15/12 08:53	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 12	Date/Time Sampled: 09/12/2012 14:10	PSS Sample ID: 12091301-016
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	240	ug/L	100		1	09/14/12	09/14/12 15:49	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 13	Date/Time Sampled: 09/12/2012 14:40	PSS Sample ID: 12091301-017
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	1,100	ug/L	100		1	09/14/12	09/14/12 16:15	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091301
AECOM, Columbia, MD
 September 20, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 13	Date/Time Sampled: 09/12/2012 14:40	PSS Sample ID: 12091301-017
Matrix: GROUND WATER	Date/Time Received: 09/13/2012 08:10	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	09/14/12	09/15/12 09:52	1011
Chloromethane	ND	ug/L	1.0		1	09/14/12	09/15/12 09:52	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 09:52	1011
Vinyl Chloride	ND	ug/L	1.0		1	09/14/12	09/15/12 09:52	1011
tert-Butyl alcohol	150	ug/L	20		1	09/14/12	09/15/12 09:52	1011
Bromomethane	ND	ug/L	1.0		1	09/14/12	09/15/12 09:52	1011
Chloroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 09:52	1011
Acetone	ND	ug/L	10		1	09/14/12	09/15/12 09:52	1011
Cyclohexane	ND	ug/L	10		1	09/14/12	09/15/12 09:52	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	09/14/12	09/15/12 09:52	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/15/12 09:52	1011
Methylene Chloride	ND	ug/L	1.0		1	09/14/12	09/15/12 09:52	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/15/12 09:52	1011
Methyl-t-butyl ether	1,000	ug/L	10		10	09/14/12	09/17/12 19:57	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 09:52	1011
2-Butanone (MEK)	ND	ug/L	10		1	09/14/12	09/15/12 09:52	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	09/14/12	09/15/12 09:52	1011
Bromochloromethane	ND	ug/L	1.0		1	09/14/12	09/15/12 09:52	1011
Chloroform	1.3	ug/L	1.0		1	09/14/12	09/15/12 09:52	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 09:52	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	09/14/12	09/15/12 09:52	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	09/14/12	09/15/12 09:52	1011
Benzene	ND	ug/L	1.0		1	09/14/12	09/15/12 09:52	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	09/14/12	09/15/12 09:52	1011
Methyl Acetate	ND	ug/L	10		1	09/14/12	09/15/12 09:52	1011
Methylcyclohexane	ND	ug/L	10		1	09/14/12	09/15/12 09:52	1011
Trichloroethene	ND	ug/L	1.0		1	09/14/12	09/15/12 09:52	1011
Carbon Disulfide	ND	ug/L	10		1	09/14/12	09/15/12 09:52	1011
Bromodichloromethane	ND	ug/L	1.0		1	09/14/12	09/15/12 09:52	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	09/14/12	09/15/12 09:52	1011



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

1 *CLIENT: A/Econ *OFFICE LOC. CUMMERS, MD PSS Work Order #: 12091301 PAGE 1 OF 2

*PROJECT MGR: John Canzari *PHONE NO.: (740) 565-6501 Matrix Codes:
 SW-Surface Wtr GW-Ground Wtr WW-Waste Wtr O-Oil S-Soil L-Liquid SOL-Solid A-Air WI-Wipe

EMAIL: () FAX NO.: () PROJECT NO.: 60144763

SITE LOCATION: Fallston, MD P.O. NO.:
 SAMPLER(S): Nick Barrett DW CERT NO.:

LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	CONTAINER No.	SAMPLE TYPE	Preservatives Used	Analysis/Method Required	REMARKS
	<u>MW 1A</u>	<u>9/12/12</u>	<u>11:00</u>	<u>GW</u>	<u>6</u>	<u>G</u>	<u>None</u>	<u>None</u>	
	<u>MW 1B</u>		<u>11:20</u>		<u>6</u>	<u>G</u>			
	<u>MW 2</u>		<u>13:00</u>		<u>6</u>	<u>G</u>			
	<u>MW 3A</u>		<u>11:40</u>		<u>6</u>	<u>G</u>			
	<u>MW 3B</u>		<u>12:00</u>		<u>6</u>	<u>G</u>			
	<u>MW 4A</u>		<u>16:00</u>		<u>6</u>	<u>G</u>			
	<u>MW 4B</u>		<u>13:46</u>		<u>6</u>	<u>G</u>			
	<u>MW 5</u>		<u>12:46</u>		<u>6</u>	<u>G</u>			
	<u>MW 6</u>		<u>16:20</u>		<u>6</u>	<u>G</u>			
	<u>MW 7</u>		<u>12:20</u>		<u>6</u>	<u>G</u>			

2 *Requested TAT (One TAT per COC)
 5-Day 3-Day 2-Day
 Next Day Emergency Other

3 Data Deliverables Required:
 COA QC SUMM CLP LIKE OTHER

4 # of Coolers: 1
 Custody Seal: None
 Ice Present: Yes Temp: 40C
 Shipping Carrier: Client

Special Instructions:
 DW COMPLIANCE? YES NO
 EDD FORMAT TYPE: A/Econ
 STATE RESULTS REPORTED TO:
 MD DE PA VA WV OTHER

5 Relinquished By: [Signature] Date: 9/13/12 Time: 0810
 Received By: [Signature]
 Relinquished By: (2) Date: Time:
 Received By:
 Relinquished By: (3) Date: Time:
 Received By:
 Relinquished By: (4) Date: Time:
 Received By:

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723
 The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

1 *CLIENT: AECOM *OFFICE LOC: Columbia, MD PSS Work Order #: 12091301 PAGE 2 OF 2

*PROJECT MGR: John Conzari *PHONE NO.: (410) 565-6801
 *PROJECT NAME: 7-11 Fgllsren #22281 PROJECT NO.: 60144765
 EMAIL: _____ FAX NO.: _____
 SITE LOCATION: Fgllsren, MD P.O. NO.: _____
 SAMPLER(S): Nick Barrett DW CERT NO.: _____

LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	CONTAINER NO.	SAMPLE TYPE C = COMP G = GRAB	Preservatives Used HCL	Analysis Method Required ③ * Follows by BSL-CM	REMARKS
	MW 8A	9/12/12	15:00	GW	6	G			
	MW 8B		15:10		6				
	MW 9		15:50		6				
	MW 10		16:10		6				
	MW 11		15:16		6				
	MW 12		14:10		6				
	MW 13		14:40		6				

4 *Requested TAT (One TAT per COC)
 5-Day 3-Day 2-Day
 Next Day Emergency Other
 Data Deliverables Required:
 COA QC SUMM CLP LIKE OTHER
 Special Instructions: _____
 Relinquished By: (1) [Signature] Date: 9/13/12 Time: 0810
 Relinquished By: (2) _____ Date: _____ Time: _____
 Relinquished By: (3) _____ Date: _____ Time: _____
 Relinquished By: (4) _____ Date: _____ Time: _____

5 *Coolers: 1
 Custody Seal: NONE
 Ice Present: yes Temp: 40C
 Shipping Carrier: Client

DW COMPLIANCE? YES NO
 EDDYFORMAT TYPE: AECOM
 STATE RESULTS REPORTED TO:
 MD DE PA VA WV OTHER _____

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 The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED



Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	12091301	Received By	Amy Friedlander
Client Name	AECOM	Date Received	09/13/2012 08:10:00 AM
Project Name	7-11 Fallston #22281	Delivered By	Client
Project Number	60144763	Tracking No	Not Applicable
Disposal Date	10/18/2012	Logged In By	Rachel Davis

Shipping Container(s)

No. of Coolers	1	Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	4
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

COC agrees with sample labels?	Yes
Chain of Custody	Yes

Sampler Name	<u>Nick Barrett</u>
MD DW Cert. No.	<u>N/A</u>

Sample Container

Appropriate for Specified Analysis?	Yes
Intact?	Yes
Labeled and Labels Legible?	Yes

Custody Seal(s) Intact?	Not Applicable
Seal(s) Signed / Dated	Not Applicable

Total No. of Samples Received 17

Total No. of Containers Received 102

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By:

Date: 09/13/2012

Rachel Davis

PM Review and Approval:

Date: 09/13/2012

Amy Friedlander

Analytical Report for

AECOM

Certificate of Analysis No.: 12091827

Project Manager: John Canzeri

Project Name : 7-11 Fallston #22281

Project Location: Fallston

Project ID : 60144763



September 25, 2012

Phase Separation Science, Inc.

6630 Baltimore National Pike

Baltimore, MD 21228

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Fax: (410) 788-8723

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BALTIMORE, MD 21228
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PHASE SEPARATION SCIENCE, INC.



September 25, 2012

John Canzeri
AECOM
8320 Guilford Road, Ste. L
Columbia, MD 21046

Reference: PSS Work Order No: **12091827**
Project Name: 7-11 Fallston #22281
Project Location: Fallston
Project ID.: 60144763

Dear John Canzeri :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **12091827**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 23, 2012. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Dan Prucnal
Laboratory Manager



Sample Summary
Client Name: AECOM
Project Name: 7-11 Fallston #22281

Project ID: 60144763

Work Order Number: 12091827

The following samples were received under chain of custody by Phase Separation Science (PSS) on 09/18/2012 at 04:20 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
12091827-001	HW 3	GROUND WATER	09/18/2012 12:30

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminants, and part 141.3, for the secondary drinking water contaminants.

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the LOD.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.



Case Narrative Summary

Client Name: AECOM

Project Name: 7-11 Fallston #22281

Project ID: 60144763

Work Order Number: 12091827

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Sample Receipt:

All sample receipt conditions were acceptable.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

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 BALTIMORE, MD 21228
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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091827
AECOM, Columbia, MD
 September 25, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston
 Project ID: 60144763

Sample ID: HW 3	Date/Time Sampled: 09/18/2012 12:30	PSS Sample ID: 12091827-001
Matrix: GROUND WATER	Date/Time Received: 09/18/2012 16:20	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
----------------------------------	---------------------------------	---------------------------

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	3,600	ug/L	100		1	09/19/12	09/20/12 00:05	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12091827
 AECOM, Columbia, MD
 September 25, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston
 Project ID: 60144763

Sample ID: HW 3 **Date/Time Sampled: 09/18/2012 12:30** **PSS Sample ID: 12091827-001**
Matrix: GROUND WATER **Date/Time Received: 09/18/2012 16:20**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	09/20/12	09/20/12 18:12	1011
Chloromethane	ND	ug/L	1.0		1	09/20/12	09/20/12 18:12	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	09/20/12	09/20/12 18:12	1011
Vinyl Chloride	ND	ug/L	1.0		1	09/20/12	09/20/12 18:12	1011
tert-Butyl alcohol	1,800	ug/L	400		20	09/20/12	09/20/12 18:41	1011
Bromomethane	ND	ug/L	1.0		1	09/20/12	09/20/12 18:12	1011
Chloroethane	ND	ug/L	1.0		1	09/20/12	09/20/12 18:12	1011
Acetone	ND	ug/L	10		1	09/20/12	09/20/12 18:12	1011
Cyclohexane	ND	ug/L	10		1	09/20/12	09/20/12 18:12	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	09/20/12	09/20/12 18:12	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	09/20/12	09/20/12 18:12	1011
Methylene Chloride	ND	ug/L	1.0		1	09/20/12	09/20/12 18:12	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	09/20/12	09/20/12 18:12	1011
Methyl-t-butyl ether	3,600	ug/L	20		20	09/20/12	09/20/12 18:41	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	09/20/12	09/20/12 18:12	1011
2-Butanone (MEK)	ND	ug/L	10		1	09/20/12	09/20/12 18:12	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	09/20/12	09/20/12 18:12	1011
Bromochloromethane	ND	ug/L	1.0		1	09/20/12	09/20/12 18:12	1011
Chloroform	9.6	ug/L	1.0		1	09/20/12	09/20/12 18:12	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	09/20/12	09/20/12 18:12	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	09/20/12	09/20/12 18:12	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	09/20/12	09/20/12 18:12	1011
Benzene	ND	ug/L	1.0		1	09/20/12	09/20/12 18:12	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	09/20/12	09/20/12 18:12	1011
Methyl Acetate	ND	ug/L	10		1	09/20/12	09/20/12 18:12	1011
Methylcyclohexane	ND	ug/L	10		1	09/20/12	09/20/12 18:12	1011
Trichloroethene	ND	ug/L	1.0		1	09/20/12	09/20/12 18:12	1011
Carbon Disulfide	ND	ug/L	10		1	09/20/12	09/20/12 18:12	1011
Bromodichloromethane	ND	ug/L	1.0		1	09/20/12	09/20/12 18:12	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	09/20/12	09/20/12 18:12	1011



Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	12091827	Received By	Rachel Davis
Client Name	AECOM	Date Received	09/18/2012 04:20:00 PM
Project Name	7-11 Fallston #22281	Delivered By	Client
Project Number	60144763	Tracking No	Not Applicable
Disposal Date	10/23/2012	Logged In By	Rachel Davis

Shipping Container(s)

No. of Coolers	1	Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	4
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

COC agrees with sample labels?	Yes
Chain of Custody	Yes

Sampler Name	<u>Nick Barrett</u>
MD DW Cert. No.	<u>N/A</u>

Sample Container

Appropriate for Specified Analysis?	Yes
Intact?	Yes
Labeled and Labels Legible?	Yes

Custody Seal(s) Intact?	Not Applicable
Seal(s) Signed / Dated	Not Applicable

Total No. of Samples Received 1

Total No. of Containers Received 6

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By:

Date: 09/18/2012

Rachel Davis

PM Review and Approval:

Date: 09/19/2012

Amy Friedlander

Analytical Report for

AECOM

Certificate of Analysis No.: 12120715

Project Manager: John Canzeri

Project Name : 7-11 Fallston #22281

Project Location: Fallston, MD

Project ID : 60144763



December 14, 2012

Phase Separation Science, Inc.

6630 Baltimore National Pike

Baltimore, MD 21228

Phone: (410) 747-8770

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PHASE SEPARATION SCIENCE, INC.



December 14, 2012

John Canzeri
AECOM
8320 Guilford Road, Ste. L
Columbia, MD 21046

Reference: PSS Work Order(s) No: **12120715**
Project Name: 7-11 Fallston #22281
Project Location: Fallston, MD
Project ID.: 60144763

Dear John Canzeri :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **12120715**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on January 11, 2013. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

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We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

A handwritten signature in black ink that reads 'Dan Prucnal'.

Dan Prucnal
Laboratory Manager



Sample Summary
Client Name: AECOM
Project Name: 7-11 Fallston #22281

Work Order Number(s): 12120715

Project ID: 60144763

The following samples were received under chain of custody by Phase Separation Science (PSS) on 12/07/2012 at 12:30 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
12120715-001	MW1A	GROUND WATER	12/06/12 12:40
12120715-002	MW1B	GROUND WATER	12/06/12 12:30
12120715-003	MW2	GROUND WATER	12/06/12 13:45
12120715-004	MW3A	GROUND WATER	12/06/12 12:50
12120715-005	MW3B	GROUND WATER	12/06/12 13:00
12120715-006	MW4A	GROUND WATER	12/06/12 16:15
12120715-007	MW4B	GROUND WATER	12/06/12 17:00
12120715-008	MW5	GROUND WATER	12/06/12 14:00
12120715-009	MW6	GROUND WATER	12/06/12 16:00
12120715-010	MW7	GROUND WATER	12/06/12 13:10
12120715-011	MW8A	GROUND WATER	12/06/12 15:20
12120715-012	MW8B	GROUND WATER	12/06/12 15:30
12120715-013	MW9	GROUND WATER	12/06/12 16:25
12120715-014	MW10	GROUND WATER	12/06/12 16:20
12120715-015	MW11	GROUND WATER	12/06/12 16:30
12120715-016	MW12	GROUND WATER	12/06/12 16:45
12120715-017	MW13	GROUND WATER	12/06/12 16:40
12120715-018	HW3	GROUND WATER	12/06/12 16:35

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminants, and part 141.3, for the secondary drinking water contaminants.
5. The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for non-potable water samples tested for compliance for Virginia Pollution Discharge Elimination System (VDPES) permits and Virginia Pollutant Abatement (VPA) permits, have a maximum holding time of 15 minutes established by 40CFR136.3.



Sample Summary
Client Name: AECOM
Project Name: 7-11 Fallston #22281

Work Order Number(s): 12120715

Project ID: 60144763

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the LOD.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.



Case Narrative Summary

Client Name: AECOM

Project Name: 7-11 Fallston #22281

Work Order Number(s): 12120715

Project ID: 60144763

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Sample Receipt:

All sample receipt conditions were acceptable.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

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CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW1A	Date/Time Sampled: 12/06/2012 12:40	PSS Sample ID: 12120715-001
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/08/12	12/08/12 17:48	1035

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CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW1B	Date/Time Sampled: 12/06/2012 12:30	PSS Sample ID: 12120715-002
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/08/12	12/08/12 18:13	1035

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CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW2	Date/Time Sampled: 12/06/2012 13:45	PSS Sample ID: 12120715-003
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/08/12	12/08/12 18:39	1035

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CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW3A	Date/Time Sampled: 12/06/2012 12:50	PSS Sample ID: 12120715-004
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/08/12	12/08/12 19:04	1035

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CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW3B	Date/Time Sampled: 12/06/2012 13:00	PSS Sample ID: 12120715-005
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/08/12	12/08/12 19:29	1035

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CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW4A	Date/Time Sampled: 12/06/2012 16:15	PSS Sample ID: 12120715-006
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	490	ug/L	100		1	12/08/12	12/08/12 19:54	1035

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CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW4A **Date/Time Sampled: 12/06/2012 16:15** **PSS Sample ID: 12120715-006**
Matrix: GROUND WATER **Date/Time Received: 12/07/2012 12:30**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
Chloromethane	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
Vinyl Chloride	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
tert-Butyl alcohol	97	ug/L	20		1	12/12/12	12/13/12 06:15	1011
Bromomethane	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
Chloroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
Acetone	ND	ug/L	10		1	12/12/12	12/13/12 06:15	1011
Cyclohexane	ND	ug/L	10		1	12/12/12	12/13/12 06:15	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	12/12/12	12/13/12 06:15	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
Methylene Chloride	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
Methyl-t-butyl ether	390	ug/L	10		10	12/12/12	12/13/12 06:44	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
2-Butanone (MEK)	ND	ug/L	10		1	12/12/12	12/13/12 06:15	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
Bromochloromethane	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
Chloroform	12	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
Benzene	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
Methyl Acetate	ND	ug/L	10		1	12/12/12	12/13/12 06:15	1011
Methylcyclohexane	ND	ug/L	10		1	12/12/12	12/13/12 06:15	1011
Trichloroethene	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
Carbon Disulfide	ND	ug/L	10		1	12/12/12	12/13/12 06:15	1011
Bromodichloromethane	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011

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CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW4A	Date/Time Sampled: 12/06/2012 16:15	PSS Sample ID: 12120715-006
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	12/12/12	12/13/12 06:15	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
Toluene	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
2-Hexanone	ND	ug/L	10		1	12/12/12	12/13/12 06:15	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
Dibromochloromethane	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	12/12/12	12/13/12 06:15	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	12/12/12	12/13/12 06:15	1011
Diisopropyl ether	ND	ug/L	10		1	12/12/12	12/13/12 06:15	1011
tert-Amyl methyl ether	22	ug/L	10		1	12/12/12	12/13/12 06:15	1011
tert-Amyl alcohol	ND	ug/L	20		1	12/12/12	12/13/12 06:15	1011
Bromoform	ND	ug/L	5.0		1	12/12/12	12/13/12 06:15	1011
Tetrachloroethene	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
Chlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
Ethylbenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
m,p-Xylenes	ND	ug/L	2.0		1	12/12/12	12/13/12 06:15	1011
Styrene	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
o-Xylene	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
Isopropylbenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	12/12/12	12/13/12 06:15	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
Naphthalene	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 06:15	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW4B	Date/Time Sampled: 12/06/2012 17:00	PSS Sample ID: 12120715-007
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/08/12	12/08/12 20:20	1035

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CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW4B	Date/Time Sampled: 12/06/2012 17:00	PSS Sample ID: 12120715-007
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	12/12/12	12/13/12 07:14	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	12/12/12	12/13/12 07:14	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 07:14	1011
Toluene	ND	ug/L	1.0		1	12/12/12	12/13/12 07:14	1011
2-Hexanone	ND	ug/L	10		1	12/12/12	12/13/12 07:14	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	12/12/12	12/13/12 07:14	1011
Dibromochloromethane	ND	ug/L	1.0		1	12/12/12	12/13/12 07:14	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	12/12/12	12/13/12 07:14	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	12/12/12	12/13/12 07:14	1011
Diisopropyl ether	ND	ug/L	10		1	12/12/12	12/13/12 07:14	1011
tert-Amyl methyl ether	ND	ug/L	10		1	12/12/12	12/13/12 07:14	1011
tert-Amyl alcohol	ND	ug/L	20		1	12/12/12	12/13/12 07:14	1011
Bromoform	ND	ug/L	5.0		1	12/12/12	12/13/12 07:14	1011
Tetrachloroethene	ND	ug/L	1.0		1	12/12/12	12/13/12 07:14	1011
Chlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 07:14	1011
Ethylbenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 07:14	1011
m,p-Xylenes	ND	ug/L	2.0		1	12/12/12	12/13/12 07:14	1011
Styrene	ND	ug/L	1.0		1	12/12/12	12/13/12 07:14	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 07:14	1011
o-Xylene	ND	ug/L	1.0		1	12/12/12	12/13/12 07:14	1011
Isopropylbenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 07:14	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 07:14	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 07:14	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 07:14	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	12/12/12	12/13/12 07:14	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 07:14	1011
Naphthalene	ND	ug/L	1.0		1	12/12/12	12/13/12 07:14	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 07:14	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW5	Date/Time Sampled: 12/06/2012 14:00	PSS Sample ID: 12120715-008
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/08/12	12/08/12 20:45	1035

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CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW6	Date/Time Sampled: 12/06/2012 16:00	PSS Sample ID: 12120715-009
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	1,500	ug/L	100		1	12/08/12	12/08/12 21:10	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW6	Date/Time Sampled: 12/06/2012 16:00	PSS Sample ID: 12120715-009
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	12/12/12	12/13/12 08:12	1011
Chloromethane	ND	ug/L	1.0		1	12/12/12	12/13/12 08:12	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 08:12	1011
Vinyl Chloride	ND	ug/L	1.0		1	12/12/12	12/13/12 08:12	1011
tert-Butyl alcohol	230	ug/L	20		1	12/12/12	12/13/12 08:12	1011
Bromomethane	ND	ug/L	1.0		1	12/12/12	12/13/12 08:12	1011
Chloroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 08:12	1011
Acetone	ND	ug/L	10		1	12/12/12	12/13/12 08:12	1011
Cyclohexane	ND	ug/L	10		1	12/12/12	12/13/12 08:12	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	12/12/12	12/13/12 08:12	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	12/12/12	12/13/12 08:12	1011
Methylene Chloride	ND	ug/L	1.0		1	12/12/12	12/13/12 08:12	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	12/12/12	12/13/12 08:12	1011
Methyl-t-butyl ether	1,400	ug/L	10		10	12/12/12	12/13/12 08:40	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 08:12	1011
2-Butanone (MEK)	ND	ug/L	10		1	12/12/12	12/13/12 08:12	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	12/12/12	12/13/12 08:12	1011
Bromochloromethane	ND	ug/L	1.0		1	12/12/12	12/13/12 08:12	1011
Chloroform	4.8	ug/L	1.0		1	12/12/12	12/13/12 08:12	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 08:12	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 08:12	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	12/12/12	12/13/12 08:12	1011
Benzene	ND	ug/L	1.0		1	12/12/12	12/13/12 08:12	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	12/12/12	12/13/12 08:12	1011
Methyl Acetate	ND	ug/L	10		1	12/12/12	12/13/12 08:12	1011
Methylcyclohexane	ND	ug/L	10		1	12/12/12	12/13/12 08:12	1011
Trichloroethene	ND	ug/L	1.0		1	12/12/12	12/13/12 08:12	1011
Carbon Disulfide	ND	ug/L	10		1	12/12/12	12/13/12 08:12	1011
Bromodichloromethane	ND	ug/L	1.0		1	12/12/12	12/13/12 08:12	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	12/12/12	12/13/12 08:12	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW7	Date/Time Sampled: 12/06/2012 13:10	PSS Sample ID: 12120715-010
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/08/12	12/08/12 21:36	1035

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CERTIFICATE OF ANALYSIS

No: 12120715
 AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW7	Date/Time Sampled: 12/06/2012 13:10	PSS Sample ID: 12120715-010
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
Chloromethane	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
Vinyl Chloride	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
tert-Butyl alcohol	ND	ug/L	20		1	12/12/12	12/13/12 09:10	1011
Bromomethane	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
Chloroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
Acetone	ND	ug/L	10		1	12/12/12	12/13/12 09:10	1011
Cyclohexane	ND	ug/L	10		1	12/12/12	12/13/12 09:10	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	12/12/12	12/13/12 09:10	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
Methylene Chloride	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
2-Butanone (MEK)	ND	ug/L	10		1	12/12/12	12/13/12 09:10	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
Bromochloromethane	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
Chloroform	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
Benzene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
Methyl Acetate	ND	ug/L	10		1	12/12/12	12/13/12 09:10	1011
Methylcyclohexane	ND	ug/L	10		1	12/12/12	12/13/12 09:10	1011
Trichloroethene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
Carbon Disulfide	ND	ug/L	10		1	12/12/12	12/13/12 09:10	1011
Bromodichloromethane	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW7	Date/Time Sampled: 12/06/2012 13:10	PSS Sample ID: 12120715-010
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	12/12/12	12/13/12 09:10	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
Toluene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
2-Hexanone	ND	ug/L	10		1	12/12/12	12/13/12 09:10	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
Dibromochloromethane	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	12/12/12	12/13/12 09:10	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	12/12/12	12/13/12 09:10	1011
Diisopropyl ether	ND	ug/L	10		1	12/12/12	12/13/12 09:10	1011
tert-Amyl methyl ether	ND	ug/L	10		1	12/12/12	12/13/12 09:10	1011
tert-Amyl alcohol	ND	ug/L	20		1	12/12/12	12/13/12 09:10	1011
Bromoform	ND	ug/L	5.0		1	12/12/12	12/13/12 09:10	1011
Tetrachloroethene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
Chlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
Ethylbenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
m,p-Xylenes	ND	ug/L	2.0		1	12/12/12	12/13/12 09:10	1011
Styrene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
o-Xylene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
Isopropylbenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	12/12/12	12/13/12 09:10	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
Naphthalene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:10	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW8A	Date/Time Sampled: 12/06/2012 15:20	PSS Sample ID: 12120715-011
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	12/08/12	12/08/12 22:01	1035

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CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW8A	Date/Time Sampled: 12/06/2012 15:20	PSS Sample ID: 12120715-011
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	12/12/12	12/13/12 09:39	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:39	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 09:39	1011
Toluene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:39	1011
2-Hexanone	ND	ug/L	10		1	12/12/12	12/13/12 09:39	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	12/12/12	12/13/12 09:39	1011
Dibromochloromethane	ND	ug/L	1.0		1	12/12/12	12/13/12 09:39	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	12/12/12	12/13/12 09:39	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	12/12/12	12/13/12 09:39	1011
Diisopropyl ether	ND	ug/L	10		1	12/12/12	12/13/12 09:39	1011
tert-Amyl methyl ether	ND	ug/L	10		1	12/12/12	12/13/12 09:39	1011
tert-Amyl alcohol	ND	ug/L	20		1	12/12/12	12/13/12 09:39	1011
Bromoform	ND	ug/L	5.0		1	12/12/12	12/13/12 09:39	1011
Tetrachloroethene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:39	1011
Chlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:39	1011
Ethylbenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:39	1011
m,p-Xylenes	ND	ug/L	2.0		1	12/12/12	12/13/12 09:39	1011
Styrene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:39	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	12/12/12	12/13/12 09:39	1011
o-Xylene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:39	1011
Isopropylbenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:39	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:39	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:39	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:39	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	12/12/12	12/13/12 09:39	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:39	1011
Naphthalene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:39	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	12/12/12	12/13/12 09:39	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW8B	Date/Time Sampled: 12/06/2012 15:30	PSS Sample ID: 12120715-012
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	670	ug/L	100		1	12/08/12	12/08/12 22:27	1035

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CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW9	Date/Time Sampled: 12/06/2012 16:25	PSS Sample ID: 12120715-013
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	1,900	ug/L	100		1	12/08/12	12/08/12 22:52	1035

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CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW10	Date/Time Sampled: 12/06/2012 16:20	PSS Sample ID: 12120715-014
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	1,100	ug/L	100		1	12/08/12	12/08/12 23:17	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW10	Date/Time Sampled: 12/06/2012 16:20	PSS Sample ID: 12120715-014
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	12/13/12	12/13/12 21:36	1011
Chloromethane	ND	ug/L	1.0		1	12/13/12	12/13/12 21:36	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 21:36	1011
Vinyl Chloride	ND	ug/L	1.0		1	12/13/12	12/13/12 21:36	1011
tert-Butyl alcohol	1,500	ug/L	200		10	12/13/12	12/13/12 19:10	1011
Bromomethane	ND	ug/L	1.0		1	12/13/12	12/13/12 21:36	1011
Chloroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 21:36	1011
Acetone	ND	ug/L	10		1	12/13/12	12/13/12 21:36	1011
Cyclohexane	ND	ug/L	10		1	12/13/12	12/13/12 21:36	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	12/13/12	12/13/12 21:36	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	12/13/12	12/13/12 21:36	1011
Methylene Chloride	ND	ug/L	1.0		1	12/13/12	12/13/12 21:36	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	12/13/12	12/13/12 21:36	1011
Methyl-t-butyl ether	1,000	ug/L	10		10	12/13/12	12/13/12 19:10	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 21:36	1011
2-Butanone (MEK)	ND	ug/L	10		1	12/13/12	12/13/12 21:36	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	12/13/12	12/13/12 21:36	1011
Bromochloromethane	ND	ug/L	1.0		1	12/13/12	12/13/12 21:36	1011
Chloroform	23	ug/L	1.0		1	12/13/12	12/13/12 21:36	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 21:36	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 21:36	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	12/13/12	12/13/12 21:36	1011
Benzene	ND	ug/L	1.0		1	12/13/12	12/13/12 21:36	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	12/13/12	12/13/12 21:36	1011
Methyl Acetate	ND	ug/L	10		1	12/13/12	12/13/12 21:36	1011
Methylcyclohexane	ND	ug/L	10		1	12/13/12	12/13/12 21:36	1011
Trichloroethene	ND	ug/L	1.0		1	12/13/12	12/13/12 21:36	1011
Carbon Disulfide	ND	ug/L	10		1	12/13/12	12/13/12 21:36	1011
Bromodichloromethane	ND	ug/L	1.0		1	12/13/12	12/13/12 21:36	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	12/13/12	12/13/12 21:36	1011

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CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW11	Date/Time Sampled: 12/06/2012 16:30	PSS Sample ID: 12120715-015
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	1,500	ug/L	100		1	12/08/12	12/08/12 23:43	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW11	Date/Time Sampled: 12/06/2012 16:30	PSS Sample ID: 12120715-015
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:06	1011
Chloromethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:06	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:06	1011
Vinyl Chloride	ND	ug/L	1.0		1	12/13/12	12/13/12 22:06	1011
tert-Butyl alcohol	2,800	ug/L	1,000		50	12/13/12	12/14/12 15:01	1011
Bromomethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:06	1011
Chloroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:06	1011
Acetone	ND	ug/L	10		1	12/13/12	12/13/12 22:06	1011
Cyclohexane	ND	ug/L	10		1	12/13/12	12/13/12 22:06	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	12/13/12	12/13/12 22:06	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:06	1011
Methylene Chloride	ND	ug/L	1.0		1	12/13/12	12/13/12 22:06	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:06	1011
Methyl-t-butyl ether	1,400	ug/L	10		10	12/13/12	12/13/12 19:39	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:06	1011
2-Butanone (MEK)	ND	ug/L	10		1	12/13/12	12/13/12 22:06	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:06	1011
Bromochloromethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:06	1011
Chloroform	20	ug/L	1.0		1	12/13/12	12/13/12 22:06	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:06	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:06	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	12/13/12	12/13/12 22:06	1011
Benzene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:06	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:06	1011
Methyl Acetate	ND	ug/L	10		1	12/13/12	12/13/12 22:06	1011
Methylcyclohexane	ND	ug/L	10		1	12/13/12	12/13/12 22:06	1011
Trichloroethene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:06	1011
Carbon Disulfide	ND	ug/L	10		1	12/13/12	12/13/12 22:06	1011
Bromodichloromethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:06	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:06	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW12	Date/Time Sampled: 12/06/2012 16:45	PSS Sample ID: 12120715-016
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
----------------------------------	---------------------------------	---------------------------

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	170	ug/L	100		1	12/08/12	12/09/12 00:08	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW13	Date/Time Sampled: 12/06/2012 16:40	PSS Sample ID: 12120715-017
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	900	ug/L	100		1	12/09/12	12/09/12 03:57	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW13	Date/Time Sampled: 12/06/2012 16:40	PSS Sample ID: 12120715-017
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
Chloromethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
Vinyl Chloride	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
tert-Butyl alcohol	450	ug/L	200		10	12/13/12	12/13/12 20:08	1011
Bromomethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
Chloroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
Acetone	ND	ug/L	10		1	12/13/12	12/13/12 22:35	1011
Cyclohexane	ND	ug/L	10		1	12/13/12	12/13/12 22:35	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	12/13/12	12/13/12 22:35	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
Methylene Chloride	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
Methyl-t-butyl ether	770	ug/L	10		10	12/13/12	12/13/12 20:08	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
2-Butanone (MEK)	ND	ug/L	10		1	12/13/12	12/13/12 22:35	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
Bromochloromethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
Chloroform	1.2	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
Benzene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
Methyl Acetate	ND	ug/L	10		1	12/13/12	12/13/12 22:35	1011
Methylcyclohexane	ND	ug/L	10		1	12/13/12	12/13/12 22:35	1011
Trichloroethene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
Carbon Disulfide	ND	ug/L	10		1	12/13/12	12/13/12 22:35	1011
Bromodichloromethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW13	Date/Time Sampled: 12/06/2012 16:40	PSS Sample ID: 12120715-017
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	12/13/12	12/13/12 22:35	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
Toluene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
2-Hexanone	ND	ug/L	10		1	12/13/12	12/13/12 22:35	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
Dibromochloromethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	12/13/12	12/13/12 22:35	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	12/13/12	12/13/12 22:35	1011
Diisopropyl ether	ND	ug/L	10		1	12/13/12	12/13/12 22:35	1011
tert-Amyl methyl ether	40	ug/L	10		1	12/13/12	12/13/12 22:35	1011
tert-Amyl alcohol	ND	ug/L	20		1	12/13/12	12/13/12 22:35	1011
Bromoform	ND	ug/L	5.0		1	12/13/12	12/13/12 22:35	1011
Tetrachloroethene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
Chlorobenzene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
Ethylbenzene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
m,p-Xylenes	ND	ug/L	2.0		1	12/13/12	12/13/12 22:35	1011
Styrene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
o-Xylene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
Isopropylbenzene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	12/13/12	12/13/12 22:35	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
Naphthalene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	12/13/12	12/13/12 22:35	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 12120715
AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: HW3	Date/Time Sampled: 12/06/2012 16:35	PSS Sample ID: 12120715-018
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	960	ug/L	100		1	12/09/12	12/09/12 04:22	1035

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CERTIFICATE OF ANALYSIS

No: 12120715
 AECOM, Columbia, MD
 December 14, 2012

Project Name: 7-11 Fallston #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: HW3	Date/Time Sampled: 12/06/2012 16:35	PSS Sample ID: 12120715-018
Matrix: GROUND WATER	Date/Time Received: 12/07/2012 12:30	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	12/13/12	12/13/12 23:04	1011
Chloromethane	ND	ug/L	1.0		1	12/13/12	12/13/12 23:04	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 23:04	1011
Vinyl Chloride	ND	ug/L	1.0		1	12/13/12	12/13/12 23:04	1011
tert-Butyl alcohol	460	ug/L	200		10	12/13/12	12/13/12 20:38	1011
Bromomethane	ND	ug/L	1.0		1	12/13/12	12/13/12 23:04	1011
Chloroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 23:04	1011
Acetone	ND	ug/L	10		1	12/13/12	12/13/12 23:04	1011
Cyclohexane	ND	ug/L	10		1	12/13/12	12/13/12 23:04	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	12/13/12	12/13/12 23:04	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	12/13/12	12/13/12 23:04	1011
Methylene Chloride	ND	ug/L	1.0		1	12/13/12	12/13/12 23:04	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	12/13/12	12/13/12 23:04	1011
Methyl-t-butyl ether	940	ug/L	10		10	12/13/12	12/13/12 20:38	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 23:04	1011
2-Butanone (MEK)	ND	ug/L	10		1	12/13/12	12/13/12 23:04	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	12/13/12	12/13/12 23:04	1011
Bromochloromethane	ND	ug/L	1.0		1	12/13/12	12/13/12 23:04	1011
Chloroform	16	ug/L	1.0		1	12/13/12	12/13/12 23:04	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 23:04	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	12/13/12	12/13/12 23:04	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	12/13/12	12/13/12 23:04	1011
Benzene	ND	ug/L	1.0		1	12/13/12	12/13/12 23:04	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	12/13/12	12/13/12 23:04	1011
Methyl Acetate	ND	ug/L	10		1	12/13/12	12/13/12 23:04	1011
Methylcyclohexane	ND	ug/L	10		1	12/13/12	12/13/12 23:04	1011
Trichloroethene	ND	ug/L	1.0		1	12/13/12	12/13/12 23:04	1011
Carbon Disulfide	ND	ug/L	10		1	12/13/12	12/13/12 23:04	1011
Bromodichloromethane	2.1	ug/L	1.0		1	12/13/12	12/13/12 23:04	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	12/13/12	12/13/12 23:04	1011



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com
email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

1 *CLIENT: AE (CM) *OFFICE LOC: Columbia, MD *PHONE NO: 844 565-6501 *PROJECT MGR: John Carner *FAX NO.: () PROJECT NO.: 601447G

EMAIL: () P.O. NO.: ()

2 SITE LOCATION: Fallston, MD DW CERT NO.: ()

SAMPLER(S): Nick Barrera

LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	CONTAINER NO.	SAMPLE TYPE	Analysis/Method Required	Preservatives Used	REMARKS
	MW1A	12/9/12	12:40	GW	6	G	③	HCL	
	MW1B		12:30		6				
	MW2		13:45		6				
	MW3A		13:50		6				
	MW3B		13:00		6				
	MW4A		16:15		6				
	MW4B		17:00		6				
	MW5		14:00		6				
	MW6		16:00		6				
	MW7		13:10		6				

3 *Requested TAT (One TAT per COC)
 5-Day 3-Day 2-Day Other
 Next Day Emergency

Data Deliverables Required:
 COA QC-SUMM CLP LIKE OTHER

Ice Present: PRES Temp: 3°C
 Shipping Carrier: CUENT

of Coolers: 1
 Custody Seal: ABS

Special Instructions: ()

Relinquished By: (1) [Signature] Date: 12/12/12 Time: 12:30 Received By: [Signature]

Relinquished By: (2) _____ Date: _____ Time: _____ Received By: _____

Relinquished By: (3) _____ Date: _____ Time: _____ Received By: _____

Relinquished By: (4) _____ Date: _____ Time: _____ Received By: _____

DW COMPLIANCE? YES NO EDD FORMAT TYPE: AE cert

STATE RESULTS REPORTED TO:
 MD DE PA VA WV OTHER

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723
 The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com
email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

1 *CLIENT: AFCOM *OFFICE LOC: Columbia, MD PAGE 2 OF 2

*PROJECT MGR: John Gander *PHONE NO.: (410) 565-6501

EMAIL: _____ FAX NO.: _____

*PROJECT NAME: 7-11 Fallston #2228 PROJECT NO.: 60144763

SITE LOCATION: Fallston, MD P.O. NO.: _____

SAMPLER(S): Nick Barrett DW CERT NO.: _____

LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	CONTAINER S	SAMPLE TYPE	Analysis/Method Required	Preservatives Used	REMARKS
	MW 8A	12/6/12	15:30	GW	6	G	③	HL HL	
	MW 8B		15:30		6				
	MW 9		16:25		6				
	MW 10		16:30		6				
	MW 11		16:30		6				
	MW 12		16:45		6				
	MW 13		16:40		6				
	HW 3	12/12	16:35		6				

4 *Requested TAT (One TAT per COC)
 5-Day 3-Day 2-Day
 Next Day Emergency Other

Data Deliverables Required:
 COA QC SUMM CLP LIKE OTHER

Ice Present: YES Temp: 3°C
 Shipping Carrier: QUENT

Custody Seal: ABS
 # of Coolers: 1

Special Instructions: _____

5 Relinquished By: (1) [Signature] Date: 12/12 Time: 17:30 Received By: [Signature]

Relinquished By: (2) _____ Date: _____ Time: _____ Received By: _____

Relinquished By: (3) _____ Date: _____ Time: _____ Received By: _____

Relinquished By: (4) _____ Date: _____ Time: _____ Received By: _____

DW COMPLIANCE? YES NO EDD FORMAT TYPE: AFCOM

STATE RESULTS REPORTED TO:
 MD DE PA VA WV OTHER

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 The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED



Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	12120715	Received By	Rachel Davis
Client Name	AECOM	Date Received	12/07/2012 12:30:00 PM
Project Name	7-11 Fallston #22281	Delivered By	Client
Project Number	60144763	Tracking No	Not Applicable
Disposal Date	01/11/2013	Logged In By	Rachel Davis

Shipping Container(s)

No. of Coolers	1	Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	3
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

COC agrees with sample labels?	Yes
Chain of Custody	Yes

Sampler Name	<u>Nick Barrett</u>
MD DW Cert. No.	<u>N/A</u>

Sample Container

Appropriate for Specified Analysis?	Yes
Intact?	Yes
Labeled and Labels Legible?	Yes

Custody Seal(s) Intact?	Not Applicable
Seal(s) Signed / Dated	Not Applicable

Total No. of Samples Received 18

Total No. of Containers Received 108

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By:

Date: 12/07/2012

Rachel Davis

PM Review and Approval:

Date: 12/08/2012

Amy Friedlander

Analytical Report for

AECOM

Certificate of Analysis No.: 13031120

Project Manager: John Canzeri

Project Name : 7-11 Store 22281

Project Location: Fallston, MD

Project ID : 60144763



March 18, 2013

Phase Separation Science, Inc.

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PHASE SEPARATION SCIENCE, INC.



March 18, 2013

John Canzeri
AECOM
8320 Guilford Road, Ste. L
Columbia, MD 21046

Reference: PSS Work Order(s) No: **13031120**
Project Name: 7-11 Store 22281
Project Location: Fallston, MD
Project ID.: 60144763

Dear John Canzeri :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **13031120**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on April 15, 2013. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal
Laboratory Manager



Sample Summary
Client Name: AECOM
Project Name: 7-11 Store 22281

Work Order Number(s): 13031120

Project ID: 60144763

The following samples were received under chain of custody by Phase Separation Science (PSS) on 03/11/2013 at 03:21 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
13031120-001	MW 1A	GROUND WATER	03/11/13 11:30
13031120-002	MW 1B	GROUND WATER	03/11/13 11:40
13031120-003	MW 2	GROUND WATER	03/11/13 10:20
13031120-004	MW 3A	GROUND WATER	03/11/13 11:50
13031120-005	MW 3B	GROUND WATER	03/11/13 12:00
13031120-006	MW 4A	GROUND WATER	03/11/13 10:37
13031120-007	MW 4B	GROUND WATER	03/11/13 11:15
13031120-008	MW 5	GROUND WATER	03/11/13 09:50
13031120-009	MW 6	GROUND WATER	03/11/13 13:50
13031120-010	MW 7	GROUND WATER	03/11/13 12:10
13031120-011	MW 8A	GROUND WATER	03/11/13 13:30
13031120-012	MW 8B	GROUND WATER	03/11/13 13:45
13031120-013	MW 9	GROUND WATER	03/11/13 11:40
13031120-014	MW 10	GROUND WATER	03/11/13 12:45
13031120-015	MW 11	GROUND WATER	03/11/13 13:05
13031120-016	MW 12	GROUND WATER	03/11/13 11:05
13031120-017	MW 13	GROUND WATER	03/11/13 12:15
13031120-018	HW 3	GROUND WATER	03/11/13 13:30

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminants, and part 141.3, for the secondary drinking water contaminants.
5. The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for non-potable water samples tested for compliance for Virginia Pollution Discharge Elimination System (VDPEs) permits and Virginia Pollutant Abatement (VPA) permits, have a maximum holding time of 15 minutes established by 40CFR136.3.



Sample Summary
Client Name: AECOM
Project Name: 7-11 Store 22281

Work Order Number(s): 13031120

Project ID: 60144763

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the LOD.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.



Case Narrative Summary

Client Name: AECOM

Project Name: 7-11 Store 22281

Work Order Number(s): 13031120

Project ID: 60144763

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Sample Receipt:

All sample receipt conditions were acceptable.

General Comments:

Sample " 2414 Pleasantville Road" cancelled per client email.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 1A	Date/Time Sampled: 03/11/2013 11:30	PSS Sample ID: 13031120-001
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
----------------------------------	---------------------------------	---------------------------

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	03/12/13	03/12/13 13:33	1035

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CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 1A	Date/Time Sampled: 03/11/2013 11:30	PSS Sample ID: 13031120-001
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
Chloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
Vinyl Chloride	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
tert-Butyl alcohol	ND	ug/L	20		1	03/14/13	03/15/13 02:29	1011
Bromomethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
Chloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
Acetone	ND	ug/L	10		1	03/14/13	03/15/13 02:29	1011
Cyclohexane	ND	ug/L	10		1	03/14/13	03/15/13 02:29	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	03/14/13	03/15/13 02:29	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
Methylene Chloride	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
2-Butanone (MEK)	ND	ug/L	10		1	03/14/13	03/15/13 02:29	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
Bromochloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
Chloroform	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
Benzene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
Methyl Acetate	ND	ug/L	10		1	03/14/13	03/15/13 02:29	1011
Methylcyclohexane	ND	ug/L	10		1	03/14/13	03/15/13 02:29	1011
Trichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
Carbon Disulfide	ND	ug/L	10		1	03/14/13	03/15/13 02:29	1011
Bromodichloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 1A **Date/Time Sampled: 03/11/2013 11:30** **PSS Sample ID: 13031120-001**
Matrix: GROUND WATER **Date/Time Received: 03/11/2013 15:21**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	03/14/13	03/15/13 02:29	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
Toluene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
2-Hexanone	ND	ug/L	10		1	03/14/13	03/15/13 02:29	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
Dibromochloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	03/14/13	03/15/13 02:29	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	03/14/13	03/15/13 02:29	1011
Diisopropyl ether	ND	ug/L	10		1	03/14/13	03/15/13 02:29	1011
tert-Amyl methyl ether	ND	ug/L	10		1	03/14/13	03/15/13 02:29	1011
tert-Amyl alcohol	ND	ug/L	20		1	03/14/13	03/15/13 02:29	1011
Bromoform	ND	ug/L	5.0		1	03/14/13	03/15/13 02:29	1011
Tetrachloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
Chlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
Ethylbenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
m,p-Xylenes	ND	ug/L	2.0		1	03/14/13	03/15/13 02:29	1011
Styrene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
o-Xylene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
Isopropylbenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	03/14/13	03/15/13 02:29	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
Naphthalene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:29	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 1B	Date/Time Sampled: 03/11/2013 11:40	PSS Sample ID: 13031120-002
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	03/12/13	03/12/13 13:58	1035

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CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 1B **Date/Time Sampled: 03/11/2013 11:40** **PSS Sample ID: 13031120-002**
Matrix: GROUND WATER **Date/Time Received: 03/11/2013 15:21**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011
Chloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011
Vinyl Chloride	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011
tert-Butyl alcohol	ND	ug/L	20		1	03/14/13	03/15/13 02:58	1011
Bromomethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011
Chloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011
Acetone	ND	ug/L	10		1	03/14/13	03/15/13 02:58	1011
Cyclohexane	ND	ug/L	10		1	03/14/13	03/15/13 02:58	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	03/14/13	03/15/13 02:58	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011
Methylene Chloride	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011
2-Butanone (MEK)	ND	ug/L	10		1	03/14/13	03/15/13 02:58	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011
Bromochloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011
Chloroform	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011
Benzene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011
Methyl Acetate	ND	ug/L	10		1	03/14/13	03/15/13 02:58	1011
Methylcyclohexane	ND	ug/L	10		1	03/14/13	03/15/13 02:58	1011
Trichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011
Carbon Disulfide	ND	ug/L	10		1	03/14/13	03/15/13 02:58	1011
Bromodichloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	03/14/13	03/15/13 02:58	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 2	Date/Time Sampled: 03/11/2013 10:20	PSS Sample ID: 13031120-003
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	03/12/13	03/12/13 14:24	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 2	Date/Time Sampled: 03/11/2013 10:20	PSS Sample ID: 13031120-003
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011
Chloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011
Vinyl Chloride	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011
tert-Butyl alcohol	ND	ug/L	20		1	03/14/13	03/15/13 03:27	1011
Bromomethane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011
Chloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011
Acetone	ND	ug/L	10		1	03/14/13	03/15/13 03:27	1011
Cyclohexane	ND	ug/L	10		1	03/14/13	03/15/13 03:27	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	03/14/13	03/15/13 03:27	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011
Methylene Chloride	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011
2-Butanone (MEK)	ND	ug/L	10		1	03/14/13	03/15/13 03:27	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011
Bromochloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011
Chloroform	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011
Benzene	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011
Methyl Acetate	ND	ug/L	10		1	03/14/13	03/15/13 03:27	1011
Methylcyclohexane	ND	ug/L	10		1	03/14/13	03/15/13 03:27	1011
Trichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011
Carbon Disulfide	ND	ug/L	10		1	03/14/13	03/15/13 03:27	1011
Bromodichloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	03/14/13	03/15/13 03:27	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 3A	Date/Time Sampled: 03/11/2013 11:50	PSS Sample ID: 13031120-004
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	03/12/13	03/12/13 14:49	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 3A **Date/Time Sampled: 03/11/2013 11:50** **PSS Sample ID: 13031120-004**
Matrix: GROUND WATER **Date/Time Received: 03/11/2013 15:21**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011
Chloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011
Vinyl Chloride	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011
tert-Butyl alcohol	ND	ug/L	20		1	03/14/13	03/15/13 03:57	1011
Bromomethane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011
Chloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011
Acetone	ND	ug/L	10		1	03/14/13	03/15/13 03:57	1011
Cyclohexane	ND	ug/L	10		1	03/14/13	03/15/13 03:57	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	03/14/13	03/15/13 03:57	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011
Methylene Chloride	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011
2-Butanone (MEK)	ND	ug/L	10		1	03/14/13	03/15/13 03:57	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011
Bromochloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011
Chloroform	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011
Benzene	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011
Methyl Acetate	ND	ug/L	10		1	03/14/13	03/15/13 03:57	1011
Methylcyclohexane	ND	ug/L	10		1	03/14/13	03/15/13 03:57	1011
Trichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011
Carbon Disulfide	ND	ug/L	10		1	03/14/13	03/15/13 03:57	1011
Bromodichloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	03/14/13	03/15/13 03:57	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 3B	Date/Time Sampled: 03/11/2013 12:00	PSS Sample ID: 13031120-005
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	03/12/13	03/12/13 15:15	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 3B	Date/Time Sampled: 03/11/2013 12:00	PSS Sample ID: 13031120-005
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
Chloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
Vinyl Chloride	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
tert-Butyl alcohol	ND	ug/L	20		1	03/14/13	03/15/13 04:26	1011
Bromomethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
Chloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
Acetone	ND	ug/L	10		1	03/14/13	03/15/13 04:26	1011
Cyclohexane	ND	ug/L	10		1	03/14/13	03/15/13 04:26	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	03/14/13	03/15/13 04:26	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
Methylene Chloride	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
2-Butanone (MEK)	ND	ug/L	10		1	03/14/13	03/15/13 04:26	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
Bromochloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
Chloroform	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
Benzene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
Methyl Acetate	ND	ug/L	10		1	03/14/13	03/15/13 04:26	1011
Methylcyclohexane	ND	ug/L	10		1	03/14/13	03/15/13 04:26	1011
Trichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
Carbon Disulfide	ND	ug/L	10		1	03/14/13	03/15/13 04:26	1011
Bromodichloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 3B	Date/Time Sampled: 03/11/2013 12:00	PSS Sample ID: 13031120-005
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	03/14/13	03/15/13 04:26	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
Toluene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
2-Hexanone	ND	ug/L	10		1	03/14/13	03/15/13 04:26	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
Dibromochloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	03/14/13	03/15/13 04:26	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	03/14/13	03/15/13 04:26	1011
Diisopropyl ether	ND	ug/L	10		1	03/14/13	03/15/13 04:26	1011
tert-Amyl methyl ether	ND	ug/L	10		1	03/14/13	03/15/13 04:26	1011
tert-Amyl alcohol	ND	ug/L	20		1	03/14/13	03/15/13 04:26	1011
Bromoform	ND	ug/L	5.0		1	03/14/13	03/15/13 04:26	1011
Tetrachloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
Chlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
Ethylbenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
m,p-Xylenes	ND	ug/L	2.0		1	03/14/13	03/15/13 04:26	1011
Styrene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
o-Xylene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
Isopropylbenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	03/14/13	03/15/13 04:26	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
Naphthalene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:26	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 4A	Date/Time Sampled: 03/11/2013 10:37	PSS Sample ID: 13031120-006
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	690	ug/L	100		1	03/12/13	03/12/13 15:40	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 4A **Date/Time Sampled: 03/11/2013 10:37** **PSS Sample ID: 13031120-006**
Matrix: GROUND WATER **Date/Time Received: 03/11/2013 15:21**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
Chloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
Vinyl Chloride	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
tert-Butyl alcohol	180	ug/L	20		1	03/14/13	03/15/13 04:55	1011
Bromomethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
Chloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
Acetone	ND	ug/L	10		1	03/14/13	03/15/13 04:55	1011
Cyclohexane	ND	ug/L	10		1	03/14/13	03/15/13 04:55	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	03/14/13	03/15/13 04:55	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
Methylene Chloride	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
Methyl-t-butyl ether	770	ug/L	10		10	03/14/13	03/16/13 03:32	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
2-Butanone (MEK)	ND	ug/L	10		1	03/14/13	03/15/13 04:55	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
Bromochloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
Chloroform	8.9	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
Benzene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
Methyl Acetate	ND	ug/L	10		1	03/14/13	03/15/13 04:55	1011
Methylcyclohexane	ND	ug/L	10		1	03/14/13	03/15/13 04:55	1011
Trichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
Carbon Disulfide	ND	ug/L	10		1	03/14/13	03/15/13 04:55	1011
Bromodichloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
March 18, 2013

Project Name: 7-11 Store 22281
Project Location: Fallston, MD
Project ID: 60144763

Sample ID: MW 4A **Date/Time Sampled: 03/11/2013 10:37** **PSS Sample ID: 13031120-006**
Matrix: GROUND WATER **Date/Time Received: 03/11/2013 15:21**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	03/14/13	03/15/13 04:55	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
Toluene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
2-Hexanone	ND	ug/L	10		1	03/14/13	03/15/13 04:55	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
Dibromochloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	03/14/13	03/15/13 04:55	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	03/14/13	03/15/13 04:55	1011
Diisopropyl ether	ND	ug/L	10		1	03/14/13	03/15/13 04:55	1011
tert-Amyl methyl ether	28	ug/L	10		1	03/14/13	03/15/13 04:55	1011
tert-Amyl alcohol	ND	ug/L	20		1	03/14/13	03/15/13 04:55	1011
Bromoform	ND	ug/L	5.0		1	03/14/13	03/15/13 04:55	1011
Tetrachloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
Chlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
Ethylbenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
m,p-Xylenes	ND	ug/L	2.0		1	03/14/13	03/15/13 04:55	1011
Styrene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
o-Xylene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
Isopropylbenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	03/14/13	03/15/13 04:55	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
Naphthalene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 04:55	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 4B	Date/Time Sampled: 03/11/2013 11:15	PSS Sample ID: 13031120-007
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	03/12/13	03/12/13 16:05	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 4B **Date/Time Sampled: 03/11/2013 11:15** **PSS Sample ID: 13031120-007**
Matrix: GROUND WATER **Date/Time Received: 03/11/2013 15:21**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	03/14/13	03/15/13 05:24	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	03/14/13	03/15/13 05:24	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 05:24	1011
Toluene	ND	ug/L	1.0		1	03/14/13	03/15/13 05:24	1011
2-Hexanone	ND	ug/L	10		1	03/14/13	03/15/13 05:24	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	03/14/13	03/15/13 05:24	1011
Dibromochloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 05:24	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	03/14/13	03/15/13 05:24	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	03/14/13	03/15/13 05:24	1011
Diisopropyl ether	ND	ug/L	10		1	03/14/13	03/15/13 05:24	1011
tert-Amyl methyl ether	ND	ug/L	10		1	03/14/13	03/15/13 05:24	1011
tert-Amyl alcohol	ND	ug/L	20		1	03/14/13	03/15/13 05:24	1011
Bromoform	ND	ug/L	5.0		1	03/14/13	03/15/13 05:24	1011
Tetrachloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 05:24	1011
Chlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 05:24	1011
Ethylbenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 05:24	1011
m,p-Xylenes	ND	ug/L	2.0		1	03/14/13	03/15/13 05:24	1011
Styrene	ND	ug/L	1.0		1	03/14/13	03/15/13 05:24	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 05:24	1011
o-Xylene	ND	ug/L	1.0		1	03/14/13	03/15/13 05:24	1011
Isopropylbenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 05:24	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 05:24	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 05:24	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 05:24	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	03/14/13	03/15/13 05:24	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 05:24	1011
Naphthalene	ND	ug/L	1.0		1	03/14/13	03/15/13 05:24	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	03/14/13	03/15/13 05:24	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 5	Date/Time Sampled: 03/11/2013 09:50	PSS Sample ID: 13031120-008
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	03/12/13	03/12/13 16:31	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 5 **Date/Time Sampled: 03/11/2013 09:50** **PSS Sample ID: 13031120-008**
Matrix: GROUND WATER **Date/Time Received: 03/11/2013 15:21**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011
Chloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011
Vinyl Chloride	ND	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011
tert-Butyl alcohol	ND	ug/L	20		1	03/14/13	03/15/13 05:53	1011
Bromomethane	ND	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011
Chloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011
Acetone	ND	ug/L	10		1	03/14/13	03/15/13 05:53	1011
Cyclohexane	ND	ug/L	10		1	03/14/13	03/15/13 05:53	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	03/14/13	03/15/13 05:53	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011
Methylene Chloride	ND	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011
Methyl-t-butyl ether	1.1	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011
2-Butanone (MEK)	ND	ug/L	10		1	03/14/13	03/15/13 05:53	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011
Bromochloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011
Chloroform	ND	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011
Benzene	ND	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011
Methyl Acetate	ND	ug/L	10		1	03/14/13	03/15/13 05:53	1011
Methylcyclohexane	ND	ug/L	10		1	03/14/13	03/15/13 05:53	1011
Trichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011
Carbon Disulfide	ND	ug/L	10		1	03/14/13	03/15/13 05:53	1011
Bromodichloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	03/14/13	03/15/13 05:53	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 6	Date/Time Sampled: 03/11/2013 13:50	PSS Sample ID: 13031120-009
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	660	ug/L	100		1	03/12/13	03/12/13 16:56	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 7	Date/Time Sampled: 03/11/2013 12:10	PSS Sample ID: 13031120-010
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	03/12/13	03/12/13 17:22	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
March 18, 2013

Project Name: 7-11 Store 22281
Project Location: Fallston, MD
Project ID: 60144763

Sample ID: MW 7 **Date/Time Sampled: 03/11/2013 12:10** **PSS Sample ID: 13031120-010**
Matrix: GROUND WATER **Date/Time Received: 03/11/2013 15:21**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011
Chloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011
Vinyl Chloride	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011
tert-Butyl alcohol	ND	ug/L	20		1	03/14/13	03/15/13 06:52	1011
Bromomethane	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011
Chloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011
Acetone	ND	ug/L	10		1	03/14/13	03/15/13 06:52	1011
Cyclohexane	ND	ug/L	10		1	03/14/13	03/15/13 06:52	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	03/14/13	03/15/13 06:52	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011
Methylene Chloride	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011
2-Butanone (MEK)	ND	ug/L	10		1	03/14/13	03/15/13 06:52	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011
Bromochloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011
Chloroform	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011
Benzene	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011
Methyl Acetate	ND	ug/L	10		1	03/14/13	03/15/13 06:52	1011
Methylcyclohexane	ND	ug/L	10		1	03/14/13	03/15/13 06:52	1011
Trichloroethene	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011
Carbon Disulfide	ND	ug/L	10		1	03/14/13	03/15/13 06:52	1011
Bromodichloromethane	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	03/14/13	03/15/13 06:52	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 8A	Date/Time Sampled: 03/11/2013 13:30	PSS Sample ID: 13031120-011
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	03/12/13	03/12/13 17:47	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 8A	Date/Time Sampled: 03/11/2013 13:30	PSS Sample ID: 13031120-011
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011
Chloromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011
Vinyl Chloride	ND	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011
tert-Butyl alcohol	ND	ug/L	20		1	03/15/13	03/15/13 14:17	1011
Bromomethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011
Chloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011
Acetone	ND	ug/L	10		1	03/15/13	03/15/13 14:17	1011
Cyclohexane	ND	ug/L	10		1	03/15/13	03/15/13 14:17	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	03/15/13	03/15/13 14:17	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011
Methylene Chloride	ND	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011
Methyl-t-butyl ether	32	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011
2-Butanone (MEK)	ND	ug/L	10		1	03/15/13	03/15/13 14:17	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011
Bromochloromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011
Chloroform	ND	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011
Benzene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011
Methyl Acetate	ND	ug/L	10		1	03/15/13	03/15/13 14:17	1011
Methylcyclohexane	ND	ug/L	10		1	03/15/13	03/15/13 14:17	1011
Trichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011
Carbon Disulfide	ND	ug/L	10		1	03/15/13	03/15/13 14:17	1011
Bromodichloromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:17	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 8B	Date/Time Sampled: 03/11/2013 13:45	PSS Sample ID: 13031120-012
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	150	ug/L	100		1	03/12/13	03/12/13 18:12	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 8B **Date/Time Sampled: 03/11/2013 13:45** **PSS Sample ID: 13031120-012**
Matrix: GROUND WATER **Date/Time Received: 03/11/2013 15:21**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
Chloromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
Vinyl Chloride	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
tert-Butyl alcohol	ND	ug/L	20		1	03/15/13	03/15/13 14:50	1011
Bromomethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
Chloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
Acetone	ND	ug/L	10		1	03/15/13	03/15/13 14:50	1011
Cyclohexane	ND	ug/L	10		1	03/15/13	03/15/13 14:50	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	03/15/13	03/15/13 14:50	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
Methylene Chloride	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
Methyl-t-butyl ether	17	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
2-Butanone (MEK)	ND	ug/L	10		1	03/15/13	03/15/13 14:50	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
Bromochloromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
Chloroform	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
Benzene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
Methyl Acetate	ND	ug/L	10		1	03/15/13	03/15/13 14:50	1011
Methylcyclohexane	ND	ug/L	10		1	03/15/13	03/15/13 14:50	1011
Trichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
Carbon Disulfide	ND	ug/L	10		1	03/15/13	03/15/13 14:50	1011
Bromodichloromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 8B	Date/Time Sampled: 03/11/2013 13:45	PSS Sample ID: 13031120-012
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	03/15/13	03/15/13 14:50	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
Toluene	75	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
2-Hexanone	ND	ug/L	10		1	03/15/13	03/15/13 14:50	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
Dibromochloromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	03/15/13	03/15/13 14:50	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	03/15/13	03/15/13 14:50	1011
Diisopropyl ether	ND	ug/L	10		1	03/15/13	03/15/13 14:50	1011
tert-Amyl methyl ether	ND	ug/L	10		1	03/15/13	03/15/13 14:50	1011
tert-Amyl alcohol	ND	ug/L	20		1	03/15/13	03/15/13 14:50	1011
Bromoform	ND	ug/L	5.0		1	03/15/13	03/15/13 14:50	1011
Tetrachloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
Chlorobenzene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
Ethylbenzene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
m,p-Xylenes	ND	ug/L	2.0		1	03/15/13	03/15/13 14:50	1011
Styrene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
o-Xylene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
Isopropylbenzene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	03/15/13	03/15/13 14:50	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
Naphthalene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	03/15/13	03/15/13 14:50	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 9	Date/Time Sampled: 03/11/2013 11:40	PSS Sample ID: 13031120-013
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	2,000	ug/L	100		1	03/12/13	03/12/13 18:38	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
March 18, 2013

Project Name: 7-11 Store 22281
Project Location: Fallston, MD
Project ID: 60144763

Sample ID: MW 10 **Date/Time Sampled: 03/11/2013 12:45** **PSS Sample ID: 13031120-014**
Matrix: GROUND WATER **Date/Time Received: 03/11/2013 15:21**

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>Flag</u>	<u>Dil</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>
TPH-GRO (Gasoline Range Organics)	750	ug/L	100		1	03/12/13	03/12/13 19:03	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 10 **Date/Time Sampled: 03/11/2013 12:45** **PSS Sample ID: 13031120-014**
Matrix: GROUND WATER **Date/Time Received: 03/11/2013 15:21**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 16:18	1011
Chloromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 16:18	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 16:18	1011
Vinyl Chloride	ND	ug/L	1.0		1	03/15/13	03/15/13 16:18	1011
tert-Butyl alcohol	1,300	ug/L	200		10	03/15/13	03/16/13 16:03	1011
Bromomethane	ND	ug/L	1.0		1	03/15/13	03/15/13 16:18	1011
Chloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 16:18	1011
Acetone	ND	ug/L	10		1	03/15/13	03/15/13 16:18	1011
Cyclohexane	ND	ug/L	10		1	03/15/13	03/15/13 16:18	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	03/15/13	03/15/13 16:18	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 16:18	1011
Methylene Chloride	ND	ug/L	1.0		1	03/15/13	03/15/13 16:18	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 16:18	1011
Methyl-t-butyl ether	880	ug/L	10		10	03/15/13	03/16/13 16:03	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 16:18	1011
2-Butanone (MEK)	ND	ug/L	10		1	03/15/13	03/15/13 16:18	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 16:18	1011
Bromochloromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 16:18	1011
Chloroform	17	ug/L	1.0		1	03/15/13	03/15/13 16:18	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 16:18	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 16:18	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	03/15/13	03/15/13 16:18	1011
Benzene	ND	ug/L	1.0		1	03/15/13	03/15/13 16:18	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	03/15/13	03/15/13 16:18	1011
Methyl Acetate	ND	ug/L	10		1	03/15/13	03/15/13 16:18	1011
Methylcyclohexane	ND	ug/L	10		1	03/15/13	03/15/13 16:18	1011
Trichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 16:18	1011
Carbon Disulfide	ND	ug/L	10		1	03/15/13	03/15/13 16:18	1011
Bromodichloromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 16:18	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	03/15/13	03/15/13 16:18	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 11	Date/Time Sampled: 03/11/2013 13:05	PSS Sample ID: 13031120-015
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	940	ug/L	100		1	03/12/13	03/12/13 19:29	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 11 **Date/Time Sampled: 03/11/2013 13:05** **PSS Sample ID: 13031120-015**
Matrix: GROUND WATER **Date/Time Received: 03/11/2013 15:21**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 17:17	1011
Chloromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 17:17	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 17:17	1011
Vinyl Chloride	ND	ug/L	1.0		1	03/15/13	03/15/13 17:17	1011
tert-Butyl alcohol	3,700	ug/L	1,000		50	03/15/13	03/16/13 16:32	1011
Bromomethane	ND	ug/L	1.0		1	03/15/13	03/15/13 17:17	1011
Chloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 17:17	1011
Acetone	ND	ug/L	10		1	03/15/13	03/15/13 17:17	1011
Cyclohexane	ND	ug/L	10		1	03/15/13	03/15/13 17:17	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	03/15/13	03/15/13 17:17	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 17:17	1011
Methylene Chloride	ND	ug/L	1.0		1	03/15/13	03/15/13 17:17	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 17:17	1011
Methyl-t-butyl ether	1,100	ug/L	10		10	03/15/13	03/15/13 17:47	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 17:17	1011
2-Butanone (MEK)	ND	ug/L	10		1	03/15/13	03/15/13 17:17	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 17:17	1011
Bromochloromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 17:17	1011
Chloroform	15	ug/L	1.0		1	03/15/13	03/15/13 17:17	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 17:17	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 17:17	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	03/15/13	03/15/13 17:17	1011
Benzene	ND	ug/L	1.0		1	03/15/13	03/15/13 17:17	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	03/15/13	03/15/13 17:17	1011
Methyl Acetate	ND	ug/L	10		1	03/15/13	03/15/13 17:17	1011
Methylcyclohexane	ND	ug/L	10		1	03/15/13	03/15/13 17:17	1011
Trichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 17:17	1011
Carbon Disulfide	ND	ug/L	10		1	03/15/13	03/15/13 17:17	1011
Bromodichloromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 17:17	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	03/15/13	03/15/13 17:17	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 12	Date/Time Sampled: 03/11/2013 11:05	PSS Sample ID: 13031120-016
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	130	ug/L	100		1	03/12/13	03/12/13 19:54	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 12 **Date/Time Sampled: 03/11/2013 11:05** **PSS Sample ID: 13031120-016**
Matrix: GROUND WATER **Date/Time Received: 03/11/2013 15:21**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011
Chloromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011
Vinyl Chloride	ND	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011
tert-Butyl alcohol	72	ug/L	20		1	03/15/13	03/15/13 18:16	1011
Bromomethane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011
Chloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011
Acetone	ND	ug/L	10		1	03/15/13	03/15/13 18:16	1011
Cyclohexane	ND	ug/L	10		1	03/15/13	03/15/13 18:16	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	03/15/13	03/15/13 18:16	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011
Methylene Chloride	ND	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011
Methyl-t-butyl ether	160	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011
2-Butanone (MEK)	ND	ug/L	10		1	03/15/13	03/15/13 18:16	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011
Bromochloromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011
Chloroform	ND	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011
Benzene	ND	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011
Methyl Acetate	ND	ug/L	10		1	03/15/13	03/15/13 18:16	1011
Methylcyclohexane	ND	ug/L	10		1	03/15/13	03/15/13 18:16	1011
Trichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011
Carbon Disulfide	ND	ug/L	10		1	03/15/13	03/15/13 18:16	1011
Bromodichloromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	03/15/13	03/15/13 18:16	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 13	Date/Time Sampled: 03/11/2013 12:15	PSS Sample ID: 13031120-017
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	940	ug/L	100		1	03/12/13	03/12/13 20:20	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 13 **Date/Time Sampled: 03/11/2013 12:15** **PSS Sample ID: 13031120-017**
Matrix: GROUND WATER **Date/Time Received: 03/11/2013 15:21**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:45	1011
Chloromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:45	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:45	1011
Vinyl Chloride	ND	ug/L	1.0		1	03/15/13	03/15/13 18:45	1011
tert-Butyl alcohol	180	ug/L	20		1	03/15/13	03/15/13 18:45	1011
Bromomethane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:45	1011
Chloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:45	1011
Acetone	ND	ug/L	10		1	03/15/13	03/15/13 18:45	1011
Cyclohexane	ND	ug/L	10		1	03/15/13	03/15/13 18:45	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	03/15/13	03/15/13 18:45	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 18:45	1011
Methylene Chloride	ND	ug/L	1.0		1	03/15/13	03/15/13 18:45	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 18:45	1011
Methyl-t-butyl ether	1,000	ug/L	10		10	03/15/13	03/15/13 19:14	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:45	1011
2-Butanone (MEK)	ND	ug/L	10		1	03/15/13	03/15/13 18:45	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 18:45	1011
Bromochloromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:45	1011
Chloroform	1.3	ug/L	1.0		1	03/15/13	03/15/13 18:45	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:45	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:45	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	03/15/13	03/15/13 18:45	1011
Benzene	ND	ug/L	1.0		1	03/15/13	03/15/13 18:45	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:45	1011
Methyl Acetate	ND	ug/L	10		1	03/15/13	03/15/13 18:45	1011
Methylcyclohexane	ND	ug/L	10		1	03/15/13	03/15/13 18:45	1011
Trichloroethene	ND	ug/L	1.0		1	03/15/13	03/15/13 18:45	1011
Carbon Disulfide	ND	ug/L	10		1	03/15/13	03/15/13 18:45	1011
Bromodichloromethane	ND	ug/L	1.0		1	03/15/13	03/15/13 18:45	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	03/15/13	03/15/13 18:45	1011

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CERTIFICATE OF ANALYSIS

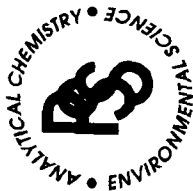
No: 13031120
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: HW 3	Date/Time Sampled: 03/11/2013 13:30	PSS Sample ID: 13031120-018
Matrix: GROUND WATER	Date/Time Received: 03/11/2013 15:21	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	510	ug/L	100		1	03/12/13	03/12/13 20:45	1035



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com
email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

1 *CLIENT: <u>AECOM</u>		*OFFICE LOC. <u>Columbia MD</u>		PSS Work Order #: <u>13031120</u>		PAGE <u>1</u> OF <u>2</u>	
*PROJECT MGR: <u>John Carter</u>		*PHONE NO.: <u>(240) 5652516</u>		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil L=Liquid SOL=Solid A=Air WI=Wipe			
EMAIL: _____		FAX NO.: () _____		No. CONTAINERS			
*PROJECT NAME: <u>7-11 Store 22281</u>		PROJECT NO: <u>MD0117103</u>		SAMPLE TYPE C = _____ COMP = <u>3</u> *			
SITE LOCATION: <u>Fallston MD</u>		P.O. NO.: _____		Analysis Method Required <u>3</u> *			
SAMPLER(S): <u>M. Parsons / D. Barrett</u>		CERT NO.: _____		Preservatives Used <u>None</u>			
LAB NO	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	No.	REMARKS	REMARKS
1	MW 1A	3/11/13	1130	GW	6		
2	MW 1B		1140		6		
3	MW 2		1020		6		
4	MW 3A		1150		6		
5	MW 3B		1200		6		
6	MW 4A		1037		6		
7	MW 4B		1115		6		
8	MW 5		0750		6		
9	MW 6		1350		6		
10	MW 7		1210		6		
5 Relinquished By: (1) <u>[Signature]</u>		Date: <u>3/11/13</u>	Time: <u>14:30</u>	Received By: <u>[Signature]</u>	*Requested TAT (One TAT per COC) <input checked="" type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other		
Relinquished By: (2) <u>[Signature]</u>		Date: <u>3/11/13</u>	Time: <u>1521</u>	Received By: <u>[Signature]</u>	Data Deliverables Required: COA <input type="checkbox"/> QC SUMM <input type="checkbox"/> CLP LIKE <input type="checkbox"/> OTHER <input type="checkbox"/>		
Relinquished By: (3) _____		Date: _____	Time: _____	Received By: _____	Shipping Carrier: <u>Client</u>		
Relinquished By: (4) _____		Date: _____	Time: _____	Received By: _____	Special Instructions: _____		
				DW COMPLIANCE? YES <input type="checkbox"/> NO <input type="checkbox"/>		EDD FORMAT TYPE: <u>AECOM</u>	
				STATE RESULTS REPORTED TO: MD <input type="checkbox"/> DE <input type="checkbox"/> PA <input type="checkbox"/> VA <input type="checkbox"/> WV <input type="checkbox"/> OTHER <input type="checkbox"/>			

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 The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED



Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	13031120	Received By	Rachel Davis
Client Name	AECOM	Date Received	03/11/2013 03:21:00 PM
Project Name	7-11 Store 22281	Delivered By	Client
Project Number	60144763	Tracking No	Not Applicable
Disposal Date	04/15/2013	Logged In By	Rachel Davis

Shipping Container(s)

No. of Coolers	1	Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	1
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

COC agrees with sample labels?	Yes
Chain of Custody	Yes

Sampler Name	<u>Mike Parsons</u>
MD DW Cert. No.	<u>N/A</u>

Sample Container

Appropriate for Specified Analysis?	Yes
Intact?	Yes
Labeled and Labels Legible?	Yes

Custody Seal(s) Intact?	Not Applicable
Seal(s) Signed / Dated	Not Applicable

Total No. of Samples Received 19

Total No. of Containers Received 114

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By:

Date: 03/11/2013

Rachel Davis

PM Review and Approval:

Date: 03/12/2013

Amy Friedlander

Analytical Report for

AECOM

Certificate of Analysis No.: 13060619

Project Manager: John Canzeri
Project Name : 7-11 Store #22281
Project Location: Fallston, MD
Project ID : 60144763



June 17, 2013

Phase Separation Science, Inc.

6630 Baltimore National Pike

Baltimore, MD 21228

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PHASE SEPARATION SCIENCE, INC.



June 17, 2013

John Canzeri
AECOM
8320 Guilford Road, Ste. L
Columbia, MD 21046

Reference: PSS Work Order(s) No: **13060619**
Project Name: 7-11 Store #22281
Project Location: Fallston, MD
Project ID.: 60144763

Dear John Canzeri :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **13060619**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on July 11, 2013. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

A handwritten signature in black ink that reads 'Dan Prucnal'.

Dan Prucnal
Laboratory Manager



Sample Summary
Client Name: AECOM
Project Name: 7-11 Store #22281

Work Order Number(s): 13060619

Project ID: 60144763

The following samples were received under chain of custody by Phase Separation Science (PSS) on 06/06/2013 at 05:20 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
13060619-001	MW 1A	GROUND WATER	06/06/13 12:31
13060619-002	MW 1B	GROUND WATER	06/06/13 12:16
13060619-003	MW 2	GROUND WATER	06/06/13 12:56
13060619-004	MW 3A	GROUND WATER	06/06/13 13:16
13060619-005	MW 3B	GROUND WATER	06/06/13 14:56
13060619-006	MW 4A	GROUND WATER	06/06/13 10:40
13060619-007	MW 4B	GROUND WATER	06/06/13 12:45
13060619-008	MW 5	GROUND WATER	06/06/13 12:46
13060619-009	MW 6	GROUND WATER	06/06/13 13:10
13060619-010	MW 7	GROUND WATER	06/06/13 13:36
13060619-011	MW 8A	GROUND WATER	06/06/13 15:26
13060619-012	MW 8B	GROUND WATER	06/06/13 15:46
13060619-013	MW 9	GROUND WATER	06/06/13 13:25
13060619-014	MW 10	GROUND WATER	06/06/13 11:55
13060619-015	MW 11	GROUND WATER	06/06/13 13:20
13060619-016	MW 12	GROUND WATER	06/06/13 11:00
13060619-017	MW 13	GROUND WATER	06/06/13 13:30
13060619-018	HW 3	GROUND WATER	06/06/13 13:15

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminants, and part 141.3, for the secondary drinking water contaminants.
5. The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for non-potable water samples tested for compliance for Virginia Pollution Discharge Elimination System (VDPES) permits and Virginia Pollutant Abatement (VPA) permits, have a maximum holding time of 15 minutes established by 40CFR136.3.



Sample Summary
Client Name: AECOM
Project Name: 7-11 Store #22281

Work Order Number(s): 13060619

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the LOD.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.



Case Narrative Summary

Client Name: AECOM

Project Name: 7-11 Store #22281

Work Order Number(s): 13060619

Project ID: 60144763

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Sample Receipt:

All sample receipt conditions were acceptable.

General Comments:

GRO results due to single component contributor, specifically methyl-t-butyl ether.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 1A	Date/Time Sampled: 06/06/2013 12:31	PSS Sample ID: 13060619-001
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	06/07/13	06/07/13 23:38	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 1A	Date/Time Sampled: 06/06/2013 12:31	PSS Sample ID: 13060619-001
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
Chloromethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
Vinyl Chloride	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
tert-Butyl alcohol	ND	ug/L	20		1	06/13/13	06/14/13 05:27	1011
Bromomethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
Chloroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
Acetone	ND	ug/L	10		1	06/13/13	06/14/13 05:27	1011
Cyclohexane	ND	ug/L	10		1	06/13/13	06/14/13 05:27	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	06/13/13	06/14/13 05:27	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
Methylene Chloride	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
2-Butanone (MEK)	ND	ug/L	10		1	06/13/13	06/14/13 05:27	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
Bromochloromethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
Chloroform	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
Benzene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
Methyl Acetate	ND	ug/L	10		1	06/13/13	06/14/13 05:27	1011
Methylcyclohexane	ND	ug/L	10		1	06/13/13	06/14/13 05:27	1011
Trichloroethene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
Carbon Disulfide	ND	ug/L	10		1	06/13/13	06/14/13 05:27	1011
Bromodichloromethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 1A	Date/Time Sampled: 06/06/2013 12:31	PSS Sample ID: 13060619-001
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	06/13/13	06/14/13 05:27	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
Toluene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
2-Hexanone	ND	ug/L	10		1	06/13/13	06/14/13 05:27	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
Dibromochloromethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	06/13/13	06/14/13 05:27	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	06/13/13	06/14/13 05:27	1011
Diisopropyl ether	ND	ug/L	10		1	06/13/13	06/14/13 05:27	1011
tert-Amyl methyl ether	ND	ug/L	10		1	06/13/13	06/14/13 05:27	1011
tert-Amyl alcohol	ND	ug/L	20		1	06/13/13	06/14/13 05:27	1011
Bromoform	ND	ug/L	5.0		1	06/13/13	06/14/13 05:27	1011
Tetrachloroethene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
Chlorobenzene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
Ethylbenzene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
m,p-Xylenes	ND	ug/L	2.0		1	06/13/13	06/14/13 05:27	1011
Styrene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
o-Xylene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
Isopropylbenzene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	06/13/13	06/14/13 05:27	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
Naphthalene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:27	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 1B	Date/Time Sampled: 06/06/2013 12:16	PSS Sample ID: 13060619-002
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	06/07/13	06/08/13 00:03	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 1B **Date/Time Sampled: 06/06/2013 12:16** **PSS Sample ID: 13060619-002**
Matrix: GROUND WATER **Date/Time Received: 06/06/2013 17:20**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011
Chloromethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011
Vinyl Chloride	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011
tert-Butyl alcohol	ND	ug/L	20		1	06/13/13	06/14/13 05:56	1011
Bromomethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011
Chloroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011
Acetone	ND	ug/L	10		1	06/13/13	06/14/13 05:56	1011
Cyclohexane	ND	ug/L	10		1	06/13/13	06/14/13 05:56	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	06/13/13	06/14/13 05:56	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011
Methylene Chloride	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011
2-Butanone (MEK)	ND	ug/L	10		1	06/13/13	06/14/13 05:56	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011
Bromochloromethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011
Chloroform	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011
Benzene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011
Methyl Acetate	ND	ug/L	10		1	06/13/13	06/14/13 05:56	1011
Methylcyclohexane	ND	ug/L	10		1	06/13/13	06/14/13 05:56	1011
Trichloroethene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011
Carbon Disulfide	ND	ug/L	10		1	06/13/13	06/14/13 05:56	1011
Bromodichloromethane	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	06/13/13	06/14/13 05:56	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 2	Date/Time Sampled: 06/06/2013 12:56	PSS Sample ID: 13060619-003
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	06/07/13	06/08/13 00:28	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 2	Date/Time Sampled: 06/06/2013 12:56	PSS Sample ID: 13060619-003
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011
Chloromethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011
Vinyl Chloride	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011
tert-Butyl alcohol	ND	ug/L	20		1	06/13/13	06/14/13 06:25	1011
Bromomethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011
Chloroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011
Acetone	ND	ug/L	10		1	06/13/13	06/14/13 06:25	1011
Cyclohexane	ND	ug/L	10		1	06/13/13	06/14/13 06:25	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	06/13/13	06/14/13 06:25	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011
Methylene Chloride	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011
2-Butanone (MEK)	ND	ug/L	10		1	06/13/13	06/14/13 06:25	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011
Bromochloromethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011
Chloroform	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011
Benzene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011
Methyl Acetate	ND	ug/L	10		1	06/13/13	06/14/13 06:25	1011
Methylcyclohexane	ND	ug/L	10		1	06/13/13	06/14/13 06:25	1011
Trichloroethene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011
Carbon Disulfide	ND	ug/L	10		1	06/13/13	06/14/13 06:25	1011
Bromodichloromethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:25	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 3A	Date/Time Sampled: 06/06/2013 13:16	PSS Sample ID: 13060619-004
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	06/07/13	06/08/13 00:54	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 3A	Date/Time Sampled: 06/06/2013 13:16	PSS Sample ID: 13060619-004
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
Chloromethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
Vinyl Chloride	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
tert-Butyl alcohol	ND	ug/L	20		1	06/13/13	06/14/13 06:54	1011
Bromomethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
Chloroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
Acetone	ND	ug/L	10		1	06/13/13	06/14/13 06:54	1011
Cyclohexane	ND	ug/L	10		1	06/13/13	06/14/13 06:54	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	06/13/13	06/14/13 06:54	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
Methylene Chloride	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
2-Butanone (MEK)	ND	ug/L	10		1	06/13/13	06/14/13 06:54	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
Bromochloromethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
Chloroform	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
Benzene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
Methyl Acetate	ND	ug/L	10		1	06/13/13	06/14/13 06:54	1011
Methylcyclohexane	ND	ug/L	10		1	06/13/13	06/14/13 06:54	1011
Trichloroethene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
Carbon Disulfide	ND	ug/L	10		1	06/13/13	06/14/13 06:54	1011
Bromodichloromethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 3A	Date/Time Sampled: 06/06/2013 13:16	PSS Sample ID: 13060619-004
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	06/13/13	06/14/13 06:54	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
Toluene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
2-Hexanone	ND	ug/L	10		1	06/13/13	06/14/13 06:54	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
Dibromochloromethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	06/13/13	06/14/13 06:54	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	06/13/13	06/14/13 06:54	1011
Diisopropyl ether	ND	ug/L	10		1	06/13/13	06/14/13 06:54	1011
tert-Amyl methyl ether	ND	ug/L	10		1	06/13/13	06/14/13 06:54	1011
tert-Amyl alcohol	ND	ug/L	20		1	06/13/13	06/14/13 06:54	1011
Bromoform	ND	ug/L	5.0		1	06/13/13	06/14/13 06:54	1011
Tetrachloroethene	1.1	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
Chlorobenzene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
Ethylbenzene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
m,p-Xylenes	ND	ug/L	2.0		1	06/13/13	06/14/13 06:54	1011
Styrene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
o-Xylene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
Isopropylbenzene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	06/13/13	06/14/13 06:54	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
Naphthalene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	06/13/13	06/14/13 06:54	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
June 17, 2013

Project Name: 7-11 Store #22281
Project Location: Fallston, MD
Project ID: 60144763

Sample ID: MW 3B **Date/Time Sampled: 06/06/2013 14:56** **PSS Sample ID: 13060619-005**
Matrix: GROUND WATER **Date/Time Received: 06/06/2013 17:20**

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>Flag</u>	<u>Dil</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	06/07/13	06/08/13 01:19	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 3B **Date/Time Sampled: 06/06/2013 14:56** **PSS Sample ID: 13060619-005**
Matrix: GROUND WATER **Date/Time Received: 06/06/2013 17:20**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011
Chloromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011
Vinyl Chloride	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011
tert-Butyl alcohol	ND	ug/L	20		1	06/14/13	06/15/13 02:24	1011
Bromomethane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011
Chloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011
Acetone	ND	ug/L	10		1	06/14/13	06/15/13 02:24	1011
Cyclohexane	ND	ug/L	10		1	06/14/13	06/15/13 02:24	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	06/14/13	06/15/13 02:24	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011
Methylene Chloride	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011
2-Butanone (MEK)	ND	ug/L	10		1	06/14/13	06/15/13 02:24	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011
Bromochloromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011
Chloroform	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011
Benzene	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011
Methyl Acetate	ND	ug/L	10		1	06/14/13	06/15/13 02:24	1011
Methylcyclohexane	ND	ug/L	10		1	06/14/13	06/15/13 02:24	1011
Trichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011
Carbon Disulfide	ND	ug/L	10		1	06/14/13	06/15/13 02:24	1011
Bromodichloromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	06/14/13	06/15/13 02:24	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 4A	Date/Time Sampled: 06/06/2013 10:40	PSS Sample ID: 13060619-006
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	760	ug/L	100		1	06/07/13	06/08/13 01:44	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 4A **Date/Time Sampled: 06/06/2013 10:40** **PSS Sample ID: 13060619-006**
Matrix: GROUND WATER **Date/Time Received: 06/06/2013 17:20**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:54	1011
Chloromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:54	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:54	1011
Vinyl Chloride	ND	ug/L	1.0		1	06/14/13	06/15/13 02:54	1011
tert-Butyl alcohol	210	ug/L	20		1	06/14/13	06/15/13 02:54	1011
Bromomethane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:54	1011
Chloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:54	1011
Acetone	ND	ug/L	10		1	06/14/13	06/15/13 02:54	1011
Cyclohexane	ND	ug/L	10		1	06/14/13	06/15/13 02:54	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	06/14/13	06/15/13 02:54	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 02:54	1011
Methylene Chloride	ND	ug/L	1.0		1	06/14/13	06/15/13 02:54	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 02:54	1011
Methyl-t-butyl ether	660	ug/L	10		10	06/14/13	06/15/13 03:23	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:54	1011
2-Butanone (MEK)	ND	ug/L	10		1	06/14/13	06/15/13 02:54	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 02:54	1011
Bromochloromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:54	1011
Chloroform	18	ug/L	1.0		1	06/14/13	06/15/13 02:54	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:54	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:54	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	06/14/13	06/15/13 02:54	1011
Benzene	ND	ug/L	1.0		1	06/14/13	06/15/13 02:54	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:54	1011
Methyl Acetate	ND	ug/L	10		1	06/14/13	06/15/13 02:54	1011
Methylcyclohexane	ND	ug/L	10		1	06/14/13	06/15/13 02:54	1011
Trichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 02:54	1011
Carbon Disulfide	ND	ug/L	10		1	06/14/13	06/15/13 02:54	1011
Bromodichloromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 02:54	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	06/14/13	06/15/13 02:54	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 4B	Date/Time Sampled: 06/06/2013 12:45	PSS Sample ID: 13060619-007
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	06/07/13	06/08/13 02:09	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 5	Date/Time Sampled: 06/06/2013 12:46	PSS Sample ID: 13060619-008
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	06/07/13	06/08/13 02:34	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 6	Date/Time Sampled: 06/06/2013 13:10	PSS Sample ID: 13060619-009
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	820	ug/L	100		1	06/07/13	06/08/13 03:00	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 6	Date/Time Sampled: 06/06/2013 13:10	PSS Sample ID: 13060619-009
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 04:49	1011
Chloromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 04:49	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 04:49	1011
Vinyl Chloride	ND	ug/L	1.0		1	06/14/13	06/15/13 04:49	1011
tert-Butyl alcohol	48	ug/L	20		1	06/14/13	06/15/13 04:49	1011
Bromomethane	ND	ug/L	1.0		1	06/14/13	06/15/13 04:49	1011
Chloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 04:49	1011
Acetone	ND	ug/L	10		1	06/14/13	06/15/13 04:49	1011
Cyclohexane	ND	ug/L	10		1	06/14/13	06/15/13 04:49	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	06/14/13	06/15/13 04:49	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 04:49	1011
Methylene Chloride	ND	ug/L	1.0		1	06/14/13	06/15/13 04:49	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 04:49	1011
Methyl-t-butyl ether	750	ug/L	10		10	06/14/13	06/15/13 05:18	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 04:49	1011
2-Butanone (MEK)	ND	ug/L	10		1	06/14/13	06/15/13 04:49	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 04:49	1011
Bromochloromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 04:49	1011
Chloroform	3.1	ug/L	1.0		1	06/14/13	06/15/13 04:49	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 04:49	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 04:49	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	06/14/13	06/15/13 04:49	1011
Benzene	ND	ug/L	1.0		1	06/14/13	06/15/13 04:49	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	06/14/13	06/15/13 04:49	1011
Methyl Acetate	ND	ug/L	10		1	06/14/13	06/15/13 04:49	1011
Methylcyclohexane	ND	ug/L	10		1	06/14/13	06/15/13 04:49	1011
Trichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 04:49	1011
Carbon Disulfide	ND	ug/L	10		1	06/14/13	06/15/13 04:49	1011
Bromodichloromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 04:49	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	06/14/13	06/15/13 04:49	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 7	Date/Time Sampled: 06/06/2013 13:36	PSS Sample ID: 13060619-010
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	06/07/13	06/08/13 03:25	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 7	Date/Time Sampled: 06/06/2013 13:36	PSS Sample ID: 13060619-010
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011
Chloromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011
Vinyl Chloride	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011
tert-Butyl alcohol	ND	ug/L	20		1	06/14/13	06/15/13 05:48	1011
Bromomethane	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011
Chloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011
Acetone	ND	ug/L	10		1	06/14/13	06/15/13 05:48	1011
Cyclohexane	ND	ug/L	10		1	06/14/13	06/15/13 05:48	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	06/14/13	06/15/13 05:48	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011
Methylene Chloride	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011
2-Butanone (MEK)	ND	ug/L	10		1	06/14/13	06/15/13 05:48	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011
Bromochloromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011
Chloroform	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011
Benzene	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011
Methyl Acetate	ND	ug/L	10		1	06/14/13	06/15/13 05:48	1011
Methylcyclohexane	ND	ug/L	10		1	06/14/13	06/15/13 05:48	1011
Trichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011
Carbon Disulfide	ND	ug/L	10		1	06/14/13	06/15/13 05:48	1011
Bromodichloromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	06/14/13	06/15/13 05:48	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 8A	Date/Time Sampled: 06/06/2013 15:26	PSS Sample ID: 13060619-011
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	06/07/13	06/08/13 03:50	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 8A	Date/Time Sampled: 06/06/2013 15:26	PSS Sample ID: 13060619-011
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
Chloromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
Vinyl Chloride	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
tert-Butyl alcohol	ND	ug/L	20		1	06/14/13	06/15/13 06:17	1011
Bromomethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
Chloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
Acetone	ND	ug/L	10		1	06/14/13	06/15/13 06:17	1011
Cyclohexane	ND	ug/L	10		1	06/14/13	06/15/13 06:17	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	06/14/13	06/15/13 06:17	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
Methylene Chloride	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
Methyl-t-butyl ether	28	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
2-Butanone (MEK)	ND	ug/L	10		1	06/14/13	06/15/13 06:17	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
Bromochloromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
Chloroform	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
Benzene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
Methyl Acetate	ND	ug/L	10		1	06/14/13	06/15/13 06:17	1011
Methylcyclohexane	ND	ug/L	10		1	06/14/13	06/15/13 06:17	1011
Trichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
Carbon Disulfide	ND	ug/L	10		1	06/14/13	06/15/13 06:17	1011
Bromodichloromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 8A	Date/Time Sampled: 06/06/2013 15:26	PSS Sample ID: 13060619-011
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	06/14/13	06/15/13 06:17	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
Toluene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
2-Hexanone	ND	ug/L	10		1	06/14/13	06/15/13 06:17	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
Dibromochloromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	06/14/13	06/15/13 06:17	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	06/14/13	06/15/13 06:17	1011
Diisopropyl ether	ND	ug/L	10		1	06/14/13	06/15/13 06:17	1011
tert-Amyl methyl ether	ND	ug/L	10		1	06/14/13	06/15/13 06:17	1011
tert-Amyl alcohol	ND	ug/L	20		1	06/14/13	06/15/13 06:17	1011
Bromoform	ND	ug/L	5.0		1	06/14/13	06/15/13 06:17	1011
Tetrachloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
Chlorobenzene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
Ethylbenzene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
m,p-Xylenes	ND	ug/L	2.0		1	06/14/13	06/15/13 06:17	1011
Styrene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
o-Xylene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
Isopropylbenzene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	06/14/13	06/15/13 06:17	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
Naphthalene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:17	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 8B	Date/Time Sampled: 06/06/2013 15:46	PSS Sample ID: 13060619-012
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	06/07/13	06/08/13 04:15	1035

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CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 8B **Date/Time Sampled: 06/06/2013 15:46** **PSS Sample ID: 13060619-012**
Matrix: GROUND WATER **Date/Time Received: 06/06/2013 17:20**

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011
Chloromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011
Vinyl Chloride	ND	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011
tert-Butyl alcohol	ND	ug/L	20		1	06/14/13	06/15/13 06:46	1011
Bromomethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011
Chloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011
Acetone	ND	ug/L	10		1	06/14/13	06/15/13 06:46	1011
Cyclohexane	ND	ug/L	10		1	06/14/13	06/15/13 06:46	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	06/14/13	06/15/13 06:46	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011
Methylene Chloride	ND	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011
Methyl-t-butyl ether	17	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011
2-Butanone (MEK)	ND	ug/L	10		1	06/14/13	06/15/13 06:46	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011
Bromochloromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011
Chloroform	ND	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011
Benzene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011
Methyl Acetate	ND	ug/L	10		1	06/14/13	06/15/13 06:46	1011
Methylcyclohexane	ND	ug/L	10		1	06/14/13	06/15/13 06:46	1011
Trichloroethene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011
Carbon Disulfide	ND	ug/L	10		1	06/14/13	06/15/13 06:46	1011
Bromodichloromethane	ND	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	06/14/13	06/15/13 06:46	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 9	Date/Time Sampled: 06/06/2013 13:25	PSS Sample ID: 13060619-013
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	2,100	ug/L	100		1	06/07/13	06/08/13 04:40	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 10	Date/Time Sampled: 06/06/2013 11:55	PSS Sample ID: 13060619-014
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>Flag</u>	<u>Dil</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>
TPH-GRO (Gasoline Range Organics)	660	ug/L	100		1	06/10/13	06/10/13 12:32	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 10	Date/Time Sampled: 06/06/2013 11:55	PSS Sample ID: 13060619-014
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
Chloromethane	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
Vinyl Chloride	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
tert-Butyl alcohol	810	ug/L	100		5	06/15/13	06/15/13 14:29	1011
Bromomethane	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
Chloroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
Acetone	ND	ug/L	10		1	06/15/13	06/15/13 16:56	1011
Cyclohexane	ND	ug/L	10		1	06/15/13	06/15/13 16:56	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	06/15/13	06/15/13 16:56	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
Methylene Chloride	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
Methyl-t-butyl ether	520	ug/L	5.0		5	06/15/13	06/15/13 14:29	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
2-Butanone (MEK)	ND	ug/L	10		1	06/15/13	06/15/13 16:56	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
Bromochloromethane	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
Chloroform	11	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
Benzene	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
Methyl Acetate	ND	ug/L	10		1	06/15/13	06/15/13 16:56	1011
Methylcyclohexane	ND	ug/L	10		1	06/15/13	06/15/13 16:56	1011
Trichloroethene	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
Carbon Disulfide	ND	ug/L	10		1	06/15/13	06/15/13 16:56	1011
Bromodichloromethane	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 10	Date/Time Sampled: 06/06/2013 11:55	PSS Sample ID: 13060619-014
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	06/15/13	06/15/13 16:56	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
Toluene	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
2-Hexanone	ND	ug/L	10		1	06/15/13	06/15/13 16:56	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
Dibromochloromethane	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	06/15/13	06/15/13 16:56	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	06/15/13	06/15/13 16:56	1011
Diisopropyl ether	ND	ug/L	10		1	06/15/13	06/15/13 16:56	1011
tert-Amyl methyl ether	23	ug/L	10		1	06/15/13	06/15/13 16:56	1011
tert-Amyl alcohol	24	ug/L	20		1	06/15/13	06/15/13 16:56	1011
Bromoform	ND	ug/L	5.0		1	06/15/13	06/15/13 16:56	1011
Tetrachloroethene	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
Chlorobenzene	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
Ethylbenzene	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
m,p-Xylenes	ND	ug/L	2.0		1	06/15/13	06/15/13 16:56	1011
Styrene	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
o-Xylene	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
Isopropylbenzene	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	06/15/13	06/15/13 16:56	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
Naphthalene	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	06/15/13	06/15/13 16:56	1011

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CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 11	Date/Time Sampled: 06/06/2013 13:20	PSS Sample ID: 13060619-015
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	690	ug/L	100		1	06/10/13	06/10/13 12:57	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 11	Date/Time Sampled: 06/06/2013 13:20	PSS Sample ID: 13060619-015
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:25	1011
Chloromethane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:25	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:25	1011
Vinyl Chloride	ND	ug/L	1.0		1	06/15/13	06/15/13 17:25	1011
tert-Butyl alcohol	1,700	ug/L	200		10	06/15/13	06/16/13 15:10	1011
Bromomethane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:25	1011
Chloroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:25	1011
Acetone	ND	ug/L	10		1	06/15/13	06/15/13 17:25	1011
Cyclohexane	ND	ug/L	10		1	06/15/13	06/15/13 17:25	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	06/15/13	06/15/13 17:25	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	06/15/13	06/15/13 17:25	1011
Methylene Chloride	ND	ug/L	1.0		1	06/15/13	06/15/13 17:25	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	06/15/13	06/15/13 17:25	1011
Methyl-t-butyl ether	590	ug/L	5.0		5	06/15/13	06/15/13 14:59	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:25	1011
2-Butanone (MEK)	ND	ug/L	10		1	06/15/13	06/15/13 17:25	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	06/15/13	06/15/13 17:25	1011
Bromochloromethane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:25	1011
Chloroform	10	ug/L	1.0		1	06/15/13	06/15/13 17:25	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:25	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:25	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	06/15/13	06/15/13 17:25	1011
Benzene	ND	ug/L	1.0		1	06/15/13	06/15/13 17:25	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:25	1011
Methyl Acetate	ND	ug/L	10		1	06/15/13	06/15/13 17:25	1011
Methylcyclohexane	ND	ug/L	10		1	06/15/13	06/15/13 17:25	1011
Trichloroethene	ND	ug/L	1.0		1	06/15/13	06/15/13 17:25	1011
Carbon Disulfide	ND	ug/L	10		1	06/15/13	06/15/13 17:25	1011
Bromodichloromethane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:25	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	06/15/13	06/15/13 17:25	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 12	Date/Time Sampled: 06/06/2013 11:00	PSS Sample ID: 13060619-016
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>Flag</u>	<u>Dil</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>
TPH-GRO (Gasoline Range Organics)	150	ug/L	100		1	06/10/13	06/10/13 13:23	1035

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CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 12	Date/Time Sampled: 06/06/2013 11:00	PSS Sample ID: 13060619-016
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011
Chloromethane	ND	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011
Vinyl Chloride	ND	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011
tert-Butyl alcohol	ND	ug/L	20		1	06/15/13	06/15/13 13:30	1011
Bromomethane	ND	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011
Chloroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011
Acetone	ND	ug/L	10		1	06/15/13	06/15/13 13:30	1011
Cyclohexane	ND	ug/L	10		1	06/15/13	06/15/13 13:30	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	06/15/13	06/15/13 13:30	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011
Methylene Chloride	ND	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011
Methyl-t-butyl ether	140	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011
2-Butanone (MEK)	ND	ug/L	10		1	06/15/13	06/15/13 13:30	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011
Bromochloromethane	ND	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011
Chloroform	ND	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011
Benzene	ND	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011
Methyl Acetate	ND	ug/L	10		1	06/15/13	06/15/13 13:30	1011
Methylcyclohexane	ND	ug/L	10		1	06/15/13	06/15/13 13:30	1011
Trichloroethene	ND	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011
Carbon Disulfide	ND	ug/L	10		1	06/15/13	06/15/13 13:30	1011
Bromodichloromethane	ND	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	06/15/13	06/15/13 13:30	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 13	Date/Time Sampled: 06/06/2013 13:30	PSS Sample ID: 13060619-017
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030B

	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>Flag</u>	<u>Dil</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>
TPH-GRO (Gasoline Range Organics)	1,000	ug/L	100		1	06/10/13	06/10/13 13:48	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 13	Date/Time Sampled: 06/06/2013 13:30	PSS Sample ID: 13060619-017
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

TCL Volatiles plus Oxygenates

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:55	1011
Chloromethane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:55	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:55	1011
Vinyl Chloride	ND	ug/L	1.0		1	06/15/13	06/15/13 17:55	1011
tert-Butyl alcohol	290	ug/L	100		5	06/15/13	06/15/13 15:28	1011
Bromomethane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:55	1011
Chloroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:55	1011
Acetone	ND	ug/L	10		1	06/15/13	06/15/13 17:55	1011
Cyclohexane	ND	ug/L	10		1	06/15/13	06/15/13 17:55	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	06/15/13	06/15/13 17:55	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	06/15/13	06/15/13 17:55	1011
Methylene Chloride	ND	ug/L	1.0		1	06/15/13	06/15/13 17:55	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	06/15/13	06/15/13 17:55	1011
Methyl-t-butyl ether	860	ug/L	5.0		5	06/15/13	06/15/13 15:28	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:55	1011
2-Butanone (MEK)	ND	ug/L	10		1	06/15/13	06/15/13 17:55	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	06/15/13	06/15/13 17:55	1011
Bromochloromethane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:55	1011
Chloroform	1.3	ug/L	1.0		1	06/15/13	06/15/13 17:55	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:55	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:55	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	06/15/13	06/15/13 17:55	1011
Benzene	ND	ug/L	1.0		1	06/15/13	06/15/13 17:55	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:55	1011
Methyl Acetate	ND	ug/L	10		1	06/15/13	06/15/13 17:55	1011
Methylcyclohexane	ND	ug/L	10		1	06/15/13	06/15/13 17:55	1011
Trichloroethene	ND	ug/L	1.0		1	06/15/13	06/15/13 17:55	1011
Carbon Disulfide	ND	ug/L	10		1	06/15/13	06/15/13 17:55	1011
Bromodichloromethane	ND	ug/L	1.0		1	06/15/13	06/15/13 17:55	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	06/15/13	06/15/13 17:55	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060619
AECOM, Columbia, MD
 June 17, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: HW 3	Date/Time Sampled: 06/06/2013 13:15	PSS Sample ID: 13060619-018
Matrix: GROUND WATER	Date/Time Received: 06/06/2013 17:20	

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW-846 8015C	Preparation Method: 5030B
----------------------------------	---------------------------------	---------------------------

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	1,200	ug/L	100		1	06/10/13	06/10/13 14:13	1035



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com
email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

1 *CLIENT: AECOM *OFFICE LOC: Columbia, MD		PSS Work Order #: 1306062019 PAGE 2 OF 2					
*PROJECT MGR: J. Carzari *PHONE NO.: (410) 581-6516		Matrix Codes: DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil L=Liquid SOL=Solid A=Air WI=Wipe SW=Surfaces Wtr					
EMAIL: FAX NO.: ()		No. of Containers: 6					
*PROJECT NAME: 7-11 Star # 22281 PROJECT NO: 6041103		Preservatives Used:					
SITE LOCATION: Fallston, MD P.O. NO.: 45814ACM		Analysis/Method Required: 3					
SAMPLER(S): Parsons & Barnett DW CERT NO.:		Remarks: Full for GRO + air. TPA-GRO					
LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	SAMPLE TYPE	CONTAINER NO.	REMARKS
11	MW 8A	6/6/13	1526	GW	G	6	
12	MW 8B		1546			6	
13	MW 9		1525			6	
14	MW 10		1555			6	
15	MW 11		1520			6	
16	MW 12		1100			6	
17	MW 13		1330			6	
18	HWO 3		1315			6	
5 Relinquished By: (1) <i>[Signature]</i> Date: 6/6/13 Time: 5:20P Received By: A. Pruneral		*Requested TAT (One TAT per COC): <input checked="" type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other					
Relinquished By: (2)		Date: Time: Received By:					
Relinquished By: (3)		Date: Time: Received By:					
Relinquished By: (4)		Date: Time: Received By:					
Data Deliverables Required: COA <input checked="" type="checkbox"/> OE <input type="checkbox"/> SUMM <input type="checkbox"/> CLP LIKE <input type="checkbox"/> OTHER <input type="checkbox"/>							
Ice Present: Present Temp: 4°C							
Shipping Carrier: Client							
Special Instructions:							
DW COMPLIANCE? YES <input type="checkbox"/> NO <input type="checkbox"/>		EDD FORMAT TYPE: AECOM					
STATE RESULTS REPORTED TO: MD <input checked="" type="checkbox"/> DE <input type="checkbox"/> PA <input type="checkbox"/> VA <input type="checkbox"/> WV <input type="checkbox"/> OTHER <input type="checkbox"/>		# of Coolers: 1 Custody Seal: ABS					

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 The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED



Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	13060619	Received By	Jacob Prucnal
Client Name	AECOM	Date Received	06/06/2013 05:20:00 PM
Project Name	7-11 Store #22281	Delivered By	Client
Project Number	60144763	Tracking No	Not Applicable
Disposal Date	07/11/2013	Logged In By	Rachel Davis

Shipping Container(s)

No. of Coolers	1	Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	4
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

COC agrees with sample labels?	Yes
Chain of Custody	Yes

Sampler Name	<u>Mike Parsons</u>
MD DW Cert. No.	<u>N/A</u>

Sample Container

Appropriate for Specified Analysis?	Yes
Intact?	Yes
Labeled and Labels Legible?	Yes

Custody Seal(s) Intact?	Not Applicable
Seal(s) Signed / Dated	Not Applicable

Total No. of Samples Received 18

Total No. of Containers Received 108

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By:

Date: 06/07/2013

Amy Friedlander

PM Review and Approval:

Date: 06/07/2013

Amy Friedlander

ATTACHMENT C

Laboratory Analytical Reports (Nutrients)

Analytical Report for

AECOM

Certificate of Analysis No.: 13021411

Project Manager: John Canzeri

Project Name : 7-11 Store 22281

Project Location: Fallston, MD

Project ID : 60144763



February 22, 2013

Phase Separation Science, Inc.

6630 Baltimore National Pike

Baltimore, MD 21228

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PHASE SEPARATION SCIENCE, INC.



February 22, 2013

John Canzeri
AECOM
8320 Guilford Road, Ste. L
Columbia, MD 21046

Reference: PSS Work Order(s) No: **13021411**
Project Name: 7-11 Store 22281
Project Location: Fallston, MD
Project ID.: 60144763

Dear John Canzeri :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **13021411**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on March 21, 2013. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

A handwritten signature in black ink, appearing to read 'Cathy Thompson', written over a horizontal line.

Cathy Thompson
QA Officer



Sample Summary
Client Name: AECOM
Project Name: 7-11 Store 22281

Work Order Number(s): 13021411

Project ID: 60144763

The following samples were received under chain of custody by Phase Separation Science (PSS) on 02/14/2013 at 04:55 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
13021411-001	MW6	GROUND WATER	02/14/13 14:40
13021411-002	MW9	GROUND WATER	02/14/13 13:45
13021411-003	MW11	GROUND WATER	02/14/13 14:15
13021411-004	MW13	GROUND WATER	02/14/13 13:55
13021411-005	HW3	GROUND WATER	02/14/13 14:20

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminants, and part 141.3, for the secondary drinking water contaminants.
5. The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for non-potable water samples tested for compliance for Virginia Pollution Discharge Elimination System (VDPES) permits and Virginia Pollutant Abatement (VPA) permits, have a maximum holding time of 15 minutes established by 40CFR136.3.

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the LOD.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.



Case Narrative Summary

Client Name: AECOM

Project Name: 7-11 Store 22281

Work Order Number(s): 13021411

Project ID: 60144763

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Sample Receipt:

All sample receipt conditions were acceptable.

Analyses associated with analyst code 4005 were performed by Enviro-Chem Laboratories, Inc.

Analytical:

Nitrate, Nitrite

Batch: 104168

Samples -001 and -005 required dilution for nitrate. Analysis of the dilutions was performed past the recommended holding time.

Batch: 104179

Samples -002 and -004 required dilution for nitrate. Analysis of the dilutions was performed past the recommended holding time.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

EPA 365.3

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13021411
AECOM, Columbia, MD
February 22, 2013

Project Name: 7-11 Store 22281
Project Location: Fallston, MD
Project ID: 60144763

Sample ID: MW13 **Date/Time Sampled: 02/14/2013 13:55** **PSS Sample ID: 13021411-004**
Matrix: GROUND WATER **Date/Time Received: 02/14/2013 16:55**

Nitrate, Nitrite

Analytical Method: EPA 300.0

Preparation Method: E300.0P

	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>Flag</u>	<u>Dil</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>
Nitrate (as N)	28	mg/L	0.50		5	02/15/13	02/22/13 12:21	1044
Nitrite (as N)	0.19	mg/L	0.10		1	02/15/13	02/15/13 18:28	1044

Orthophoshate

Analytical Method: EPA 365.3

	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>Flag</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>
Orthophosphate (as PO4)	2.44	mg/L	0.15		02/15/13	02/15/13 13:51	4005

Sample ID: HW3 **Date/Time Sampled: 02/14/2013 14:20** **PSS Sample ID: 13021411-005**
Matrix: GROUND WATER **Date/Time Received: 02/14/2013 16:55**

Nitrate, Nitrite

Analytical Method: EPA 300.0

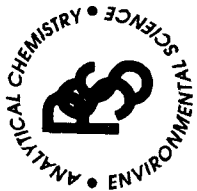
Preparation Method: E300.0P

	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>Flag</u>	<u>Dil</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>
Nitrate (as N)	850	mg/L	50		500	02/15/13	02/21/13 16:02	1044
Nitrite (as N)	3.3	mg/L	0.10		1	02/15/13	02/15/13 18:55	1044

Orthophoshate

Analytical Method: EPA 365.3

	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>Flag</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>
Orthophosphate (as PO4)	745	mg/L	76.6		02/15/13	02/15/13 13:51	4005



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

1 *CLIENT: <u>AECOM</u> *OFFICE LOC. <u>Columbia, MD</u>		PSS Work Order #: <u>1302/411</u> PAGE <u>1</u> OF <u>1</u>					
*PROJECT MGR: <u>J. Cantzer</u> *PHONE NO.: <u>(249) 865-616</u>		Matrix Codes: DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil L=Liquid SOL=Solid A=Air WI=Wipe SW=Surface Wtr					
EMAIL: <u>John.Cantzer@aecom.com</u> FAX NO.: ()		No. of Containers: <u>5</u>					
*PROJECT NAME: <u>7-11 Store 22281</u> PROJECT NO. <u>6041163</u>		Preservation Method Used: <u>3</u>					
SITE LOCATION: <u>Fallston, MD</u> P.O. NO.:		Analysis Method Required: <u>3</u>					
SAMPLER(S): <u>Mike Parsons</u> DW CERT NO.:		Analytical Method Required: <u>3</u>					
LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	SAMPLE TYPE	CONTAINER NO.	REMARKS
1	MW6	2/14/13	1440	GW	C	2	315.1 = 0.804 (as req)
2	MW9	}	1345	}	COMP	2	300.0 = No. 3, No. 2
3	MW11		1415		GRAB		
4	MW13	}	1355	}		2	
5	HW3		1420				
4 *Requested TAT (One TAT per COC) <input checked="" type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other							
Data Deliverables Required: <input checked="" type="checkbox"/> COA <input type="checkbox"/> QC <input type="checkbox"/> SUMM <input type="checkbox"/> CLP <input type="checkbox"/> LIKE <input type="checkbox"/> OTHER							
# of Coolers: <u>1</u> Custody Seal: <u>ABS</u> Ice Present: <u>YES</u> Temp: <u>10c</u> Shipping Carrier: <u>CLIENT</u>							
Special Instructions:							
State Results Reported To: <input type="checkbox"/> MD <input type="checkbox"/> DE <input type="checkbox"/> PA <input type="checkbox"/> VA <input type="checkbox"/> WV <input type="checkbox"/> OTHER							
DW COMPLIANCE? YES <input type="checkbox"/> NO <input type="checkbox"/> EDD FORMAT TYPE: <u>AECOM</u>							

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 The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED



Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	13021411	Received By	Rachel Davis
Client Name	AECOM	Date Received	02/14/2013 04:55:00 PM
Project Name	7-11 Store 22281	Delivered By	Client
Project Number	60144763	Tracking No	Not Applicable
Disposal Date	03/21/2013	Logged In By	Rachel Davis

Shipping Container(s)

No. of Coolers	1	Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	1
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

COC agrees with sample labels?	Yes
Chain of Custody	Yes

Sampler Name	<u>Mike Parsons</u>
MD DW Cert. No.	<u>N/A</u>

Sample Container

Appropriate for Specified Analysis?	Yes
Intact?	Yes
Labeled and Labels Legible?	Yes

Custody Seal(s) Intact?	Not Applicable
Seal(s) Signed / Dated	Not Applicable

Total No. of Samples Received 5

Total No. of Containers Received 10

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	N/A
Do VOA vials have zero headspace?		N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By:

Date: 02/14/2013

Rachel Davis

PM Review and Approval:

Date: 02/15/2013

Amy Friedlander

Analytical Report for

AECOM

Certificate of Analysis No.: 13031119

Project Manager: John Canzeri

Project Name : 7-11 Store 22281

Project Location: Fallston, MD

Project ID : 60144763



March 18, 2013

Phase Separation Science, Inc.

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Baltimore, MD 21228

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PHASE SEPARATION SCIENCE, INC.



March 18, 2013

John Canzeri
AECOM
8320 Guilford Road, Ste. L
Columbia, MD 21046

Reference: PSS Work Order(s) No: **13031119**
Project Name: 7-11 Store 22281
Project Location: Fallston, MD
Project ID.: 60144763

Dear John Canzeri :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **13031119**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on April 15, 2013. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

A handwritten signature in black ink that reads 'Dan Prucnal'. The signature is written in a cursive style.

Dan Prucnal
Laboratory Manager



Sample Summary
Client Name: AECOM
Project Name: 7-11 Store 22281

Work Order Number(s): 13031119

Project ID: 60144763

The following samples were received under chain of custody by Phase Separation Science (PSS) on 03/11/2013 at 03:21 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
13031119-001	HW 3	GROUND WATER	03/11/13 13:30
13031119-002	MW 9	GROUND WATER	03/11/13 11:40
13031119-003	MW 11	GROUND WATER	03/11/13 13:05
13031119-004	MW 13	GROUND WATER	03/11/13 12:15
13031119-005	MW 6	GROUND WATER	03/11/13 13:50

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminants, and part 141.3, for the secondary drinking water contaminants.
5. The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for non-potable water samples tested for compliance for Virginia Pollution Discharge Elimination System (VDPES) permits and Virginia Pollutant Abatement (VPA) permits, have a maximum holding time of 15 minutes established by 40CFR136.3.

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the LOD.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.



Case Narrative Summary

Client Name: AECOM

Project Name: 7-11 Store 22281

Work Order Number(s): 13031119

Project ID: 60144763

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Sample Receipt:

All sample receipt conditions were acceptable.

Analyses associated with analyst code 4005 were performed by Enviro-Chem Laboratories, Inc.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

EPA 365.3

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CERTIFICATE OF ANALYSIS

No: 13031119
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: HW 3 **Date/Time Sampled: 03/11/2013 13:30** **PSS Sample ID: 13031119-001**
Matrix: GROUND WATER **Date/Time Received: 03/11/2013 15:21**

Nitrate, Nitrite Analytical Method: EPA 300.0 Preparation Method: E300.OP

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Nitrate (as N)	880	mg/L	20		200	03/12/13	03/14/13 03:12	1044
Nitrite (as N)	7.9	mg/L	0.10		1	03/11/13	03/11/13 18:54	1044

Orthophosphate Analytical Method: EPA 365.3

	Result	Units	RL	Flag	Prepared	Analyzed	Analyst
Orthophosphate (as PO4)	746	mg/L	76.6		03/12/13	03/12/13 15:26	4005

Sample ID: MW 9 **Date/Time Sampled: 03/11/2013 11:40** **PSS Sample ID: 13031119-002**
Matrix: GROUND WATER **Date/Time Received: 03/11/2013 15:21**

Nitrate, Nitrite Analytical Method: EPA 300.0 Preparation Method: E300.OP

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Nitrate (as N)	17	mg/L	0.50		5	03/12/13	03/13/13 01:31	1044
Nitrite (as N)	0.20	mg/L	0.10		1	03/11/13	03/11/13 19:22	1044

Orthophosphate Analytical Method: EPA 365.3

	Result	Units	RL	Flag	Prepared	Analyzed	Analyst
Orthophosphate (as PO4)	0.32	mg/L	0.15		03/12/13	03/12/13 14:06	4005

Sample ID: MW 11 **Date/Time Sampled: 03/11/2013 13:05** **PSS Sample ID: 13031119-003**
Matrix: GROUND WATER **Date/Time Received: 03/11/2013 15:21**

Nitrate, Nitrite Analytical Method: EPA 300.0 Preparation Method: E300.OP

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Nitrate (as N)	8.3	mg/L	0.10		1	03/11/13	03/11/13 19:49	1044
Nitrite (as N)	0.18	mg/L	0.10		1	03/11/13	03/11/13 19:49	1044

Orthophosphate Analytical Method: EPA 365.3

	Result	Units	RL	Flag	Prepared	Analyzed	Analyst
Orthophosphate (as PO4)	2.19	mg/L	0.15		03/12/13	03/12/13 14:06	4005

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13031119
AECOM, Columbia, MD
 March 18, 2013

Project Name: 7-11 Store 22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 13 **Date/Time Sampled: 03/11/2013 12:15** **PSS Sample ID: 13031119-004**
Matrix: GROUND WATER **Date/Time Received: 03/11/2013 15:21**

Nitrate, Nitrite	Analytical Method: EPA 300.0		Preparation Method: E300.OP					
	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Nitrate (as N)	19	mg/L	0.50		5	03/12/13	03/13/13 01:59	1044
Nitrite (as N)	0.22	mg/L	0.10		1	03/11/13	03/11/13 20:16	1044

Orthophoshate	Analytical Method: EPA 365.3							
	Result	Units	RL	Flag		Prepared	Analyzed	Analyst
Orthophosphate (as PO4)	1.02	mg/L	0.15			03/12/13	03/12/13 14:06	4005

Sample ID: MW 6 **Date/Time Sampled: 03/11/2013 13:50** **PSS Sample ID: 13031119-005**
Matrix: GROUND WATER **Date/Time Received: 03/11/2013 15:21**

Nitrate, Nitrite	Analytical Method: EPA 300.0		Preparation Method: E300.OP					
	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Nitrate (as N)	74	mg/L	1.0		10	03/12/13	03/13/13 02:26	1044
Nitrite (as N)	0.26	mg/L	0.10		1	03/11/13	03/11/13 20:44	1044

Orthophoshate	Analytical Method: EPA 365.3							
	Result	Units	RL	Flag		Prepared	Analyzed	Analyst
Orthophosphate (as PO4)	2.02	mg/L	0.15			03/12/13	03/12/13 14:06	4005



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

1 *CLIENT: <u>AECOM</u> *OFFICE LOC. <u>Columbia, MD</u>		PSS Work Order #: <u>13031119</u> PAGE <u>1</u> OF <u>1</u>		
*PROJECT MGR: <u>John Carzer</u> *PHONE NO.: <u>(240) 305 6516</u>		Matrix Codes: DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil L=Liquid SOL=Solid A=Air WI=Wipe SW=Surface Wtr		
EMAIL: _____ FAX NO.: () _____		No. of Containers: _____		
*PROJECT NAME: <u>T-11 State 22281</u> PROJECT NO.: <u>111163</u>		Matrix Code: _____		
SITE LOCATION: <u>Felston, MD</u> P.O. NO.: _____		No. of Containers: _____		
SAMPLER(S): <u>Mike Parsons</u> DW CERT NO.: _____		Matrix Code: _____		
LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)
1	H2O 3	3/11/13	1330	GW
2	MW 9)	1140)
3	MW 11		1305	
4	MW 13		1215	
5	MW 6		1350	

2 *Requested TAT (One TAT per COC) <input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Other		# of Coolers: <u>1</u>
Data Deliverables Required: COA <input type="checkbox"/> QC SUMM <input type="checkbox"/> CLP LIKE <input type="checkbox"/> OTHER <input type="checkbox"/>		Custody Seal: <u>N/A</u>
Special Instructions: <u>on file</u>		Ice Present: <u>Yes</u> Temp: <u>12</u>
State Results Reported To: MD <input type="checkbox"/> DE <input type="checkbox"/> PA <input type="checkbox"/> VA <input type="checkbox"/> WV <input type="checkbox"/> OTHER <input type="checkbox"/>		Shipping Carrier: <u>CLUNT</u>

3 Relinquished By: (1) <u>[Signature]</u> Date: <u>3/11/13</u> Time: <u>14:30</u>		Received By: <u>[Signature]</u>
4 Relinquished By: (2) <u>[Signature]</u> Date: <u>3/11/13</u> Time: <u>1521</u>		Received By: <u>[Signature]</u>
Relinquished By: (3) _____ Date: _____ Time: _____		Received By: _____
Relinquished By: (4) _____ Date: _____ Time: _____		Received By: _____

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 The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED



Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	13031119	Received By	Rachel Davis
Client Name	AECOM	Date Received	03/11/2013 03:21:00 PM
Project Name	7-11 Store 22281	Delivered By	Client
Project Number	60144763	Tracking No	Not Applicable
Disposal Date	04/15/2013	Logged In By	Rachel Davis

Shipping Container(s)

No. of Coolers	1	Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	1
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

COC agrees with sample labels?	Yes
Chain of Custody	Yes

Sampler Name	<u>Mike Parsons</u>
MD DW Cert. No.	<u>N/A</u>

Sample Container

Appropriate for Specified Analysis?	Yes
Intact?	Yes
Labeled and Labels Legible?	Yes

Custody Seal(s) Intact?	Not Applicable
Seal(s) Signed / Dated	Not Applicable

Total No. of Samples Received 5

Total No. of Containers Received 10

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	N/A
Do VOA vials have zero headspace?		N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By:

Date: 03/11/2013

Rachel Davis

PM Review and Approval:

Date: 03/12/2013

Amy Friedlander

Analytical Report for

AECOM

Certificate of Analysis No.: 13060618

Project Manager: John Canzeri
Project Name : 7-11 Store #22281
Project Location: Fallston, MD
Project ID : 60144763



June 14, 2013

Phase Separation Science, Inc.

6630 Baltimore National Pike

Baltimore, MD 21228

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PHASE SEPARATION SCIENCE, INC.



June 14, 2013

John Canzeri
AECOM
8320 Guilford Road, Ste. L
Columbia, MD 21046

Reference: PSS Work Order(s) No: **13060618**
Project Name: 7-11 Store #22281
Project Location: Fallston, MD
Project ID.: 60144763

Dear John Canzeri :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **13060618**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on July 11, 2013. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

A handwritten signature in black ink that reads 'Dan Prucnal'. The signature is fluid and cursive.

Dan Prucnal
Laboratory Manager



Sample Summary
Client Name: AECOM
Project Name: 7-11 Store #22281

Work Order Number(s): 13060618

Project ID: 60144763

The following samples were received under chain of custody by Phase Separation Science (PSS) on 06/06/2013 at 05:20 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
13060618-001	MW 6 Special	GROUND WATER	06/06/13 13:10
13060618-002	MW 9 Special	GROUND WATER	06/06/13 13:25
13060618-003	MW 11 Special	GROUND WATER	06/06/13 13:20
13060618-004	MW 13 Special	GROUND WATER	06/06/13 13:30
13060618-005	HW 3 Special	GROUND WATER	06/06/13 13:15

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminants, and part 141.3, for the secondary drinking water contaminants.
5. The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for non-potable water samples tested for compliance for Virginia Pollution Discharge Elimination System (VDPES) permits and Virginia Pollutant Abatement (VPA) permits, have a maximum holding time of 15 minutes established by 40CFR136.3.

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the LOD.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.



Case Narrative Summary

Client Name: AECOM

Project Name: 7-11 Store #22281

Work Order Number(s): 13060618

Project ID: 60144763

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Sample Receipt:

Received one container per sample. COC indicates two for each. Split off approx. 125ml from each sample in an unpreserved 250ml plastic.

Analyses associated with analyst code 4005 were performed by Enviro-Chem Laboratories, Inc.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

EPA 365.1

OFFICES:
 6630 BALTIMORE NATIONAL PIKE
 ROUTE 40 WEST
 BALTIMORE, MD 21228
 410-747-8770
 800-932-9047
 FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060618
AECOM, Columbia, MD
 June 14, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 6 Special **Date/Time Sampled: 06/06/2013 13:10** **PSS Sample ID: 13060618-001**
Matrix: GROUND WATER **Date/Time Received: 06/06/2013 17:20**

Nitrate, Nitrite	Analytical Method: EPA 300.0		Preparation Method: E300.OP					
	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Nitrate (as N)	190	mg/L	2.0		20	06/07/13	06/07/13 20:20	1044
Nitrite (as N)	0.14	mg/L	0.10		1	06/06/13	06/06/13 20:29	1044

Orthophosphate	Analytical Method: EPA 365.1							
	Result	Units	RL	Flag		Prepared	Analyzed	Analyst
Orthophosphate (as PO4)	ND	mg/L	0.15			06/07/13	06/07/13 13:26	4005

Sample ID: MW 9 Special **Date/Time Sampled: 06/06/2013 13:25** **PSS Sample ID: 13060618-002**
Matrix: GROUND WATER **Date/Time Received: 06/06/2013 17:20**

Nitrate, Nitrite	Analytical Method: EPA 300.0		Preparation Method: E300.OP					
	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Nitrate (as N)	23	mg/L	1.0		10	06/07/13	06/07/13 20:47	1044
Nitrite (as N)	ND	mg/L	0.10		1	06/06/13	06/06/13 20:56	1044

Orthophosphate	Analytical Method: EPA 365.1							
	Result	Units	RL	Flag		Prepared	Analyzed	Analyst
Orthophosphate (as PO4)	2.32	mg/L	0.15			06/07/13	06/07/13 13:26	4005

Sample ID: MW 11 Special **Date/Time Sampled: 06/06/2013 13:20** **PSS Sample ID: 13060618-003**
Matrix: GROUND WATER **Date/Time Received: 06/06/2013 17:20**

Nitrate, Nitrite	Analytical Method: EPA 300.0		Preparation Method: E300.OP					
	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Nitrate (as N)	7.9	mg/L	0.10		1	06/06/13	06/06/13 21:24	1044
Nitrite (as N)	ND	mg/L	0.10		1	06/06/13	06/06/13 21:24	1044

Orthophosphate	Analytical Method: EPA 365.1							
	Result	Units	RL	Flag		Prepared	Analyzed	Analyst
Orthophosphate (as PO4)	0.15	mg/L	0.15			06/07/13	06/07/13 13:26	4005

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 BALTIMORE, MD 21228
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 800-932-9047
 FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13060618
AECOM, Columbia, MD
 June 14, 2013

Project Name: 7-11 Store #22281
 Project Location: Fallston, MD
 Project ID: 60144763

Sample ID: MW 13 Special **Date/Time Sampled: 06/06/2013 13:30** **PSS Sample ID: 13060618-004**
Matrix: GROUND WATER **Date/Time Received: 06/06/2013 17:20**

Nitrate, Nitrite	Analytical Method: EPA 300.0	Preparation Method: E300.0P						
	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Nitrate (as N)	28	mg/L	1.0		10	06/07/13	06/07/13 21:15	1044
Nitrite (as N)	ND	mg/L	0.10		1	06/06/13	06/06/13 21:51	1044

Orthophosphate	Analytical Method: EPA 365.1						
	Result	Units	RL	Flag	Prepared	Analyzed	Analyst
Orthophosphate (as PO4)	1.87	mg/L	0.15		06/07/13	06/07/13 13:26	4005

Sample ID: HW 3 Special **Date/Time Sampled: 06/06/2013 13:15** **PSS Sample ID: 13060618-005**
Matrix: GROUND WATER **Date/Time Received: 06/06/2013 17:20**

Nitrate, Nitrite	Analytical Method: EPA 300.0	Preparation Method: E300.0P						
	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Nitrate (as N)	960	mg/L	20		200	06/07/13	06/10/13 12:21	1044
Nitrite (as N)	3.3	mg/L	0.10		1	06/06/13	06/06/13 22:18	1044

Orthophosphate	Analytical Method: EPA 365.1						
	Result	Units	RL	Flag	Prepared	Analyzed	Analyst
Orthophosphate (as PO4)	764	mg/L	61.3		06/08/13	06/08/13 09:17	4005



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com
email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

1 *CLIENT: <u>AECOM</u> *OFFICE LOC: <u>Columbia, MD</u>		PSS Work Order #: <u>13060618</u> PAGE <u>1</u> OF <u>1</u>				
*PROJECT MGR: <u>J. Carneri</u> *PHONE NO.: <u>(210) 565 6516</u>		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WM=Waste Wtr O=Oil S=Soil L=Liquid SOL=Solid A=Air WI=Wipe				
EMAIL: _____ FAX NO.: () _____		Preservatives Used: <u>None</u>				
*PROJECT NAME: <u>7-11 store 22281</u> PROJECT NO: <u>60144763</u>		Analysis Method Required: <u>3</u> *				
SITE LOCATION: <u>Fallston, MD</u> P.O. NO.: <u>45814ACM</u>		O-Ret Asphy Noz, No3				
SAMPLER(S): <u>M. Parsons</u> DW CERT NO.: _____		No. CONTAINERS: <u>2</u>				
LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	SAMPLE TYPE	REMARKS
	MW 6 Special	6/6/13	1310	GW	G	
	MW 9 Special	}	1325	}	}	
	MW 11 Special		1320			
	MW 13 Special		1330			
	HW 3 Special		1315			
5						
Relinquished By: (1)	<u>M. Parsons</u>	Date	6/6/13	Time	16:20	Received By: <u>[Signature]</u>
Relinquished By: (2)	<u>[Signature]</u>	Date	6/6/13	Time	5:20P	Received By: <u>J. Pincus</u>
Relinquished By: (3)	_____	Date	_____	Time	_____	Received By: _____
Relinquished By: (4)	_____	Date	_____	Time	_____	Received By: _____
*Requested TAT (One TAT per COC) <input checked="" type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Other <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other						
Data Deliverables Required: COA <input checked="" type="checkbox"/> QC <input type="checkbox"/> SUMM <input type="checkbox"/> CLP LIKE <input type="checkbox"/> OTHER _____						
# of Coolers: <u>1</u> Custody Seal: <u>ADD</u> Ice Present: <u>Present</u> Temp: <u>4°C</u> Shipping Carrier: <u>Client</u>						
Special Instructions: _____						
DW COMPLIANCE? YES <input type="checkbox"/>			EDD FORMAT TYPE: <u>AECOM</u>		STATE RESULTS REPORTED TO: MD <input type="checkbox"/> DE <input type="checkbox"/> PA <input type="checkbox"/> VA <input type="checkbox"/> WV <input type="checkbox"/> OTHER _____	

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723
 The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED



Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	13060618	Received By	Jacob Prucnal
Client Name	AECOM	Date Received	06/06/2013 05:20:00 PM
Project Name	7-11 Store #22281	Delivered By	Client
Project Number	60144763	Tracking No	Not Applicable
Disposal Date	07/11/2013	Logged In By	Rachel Davis

Shipping Container(s)

No. of Coolers	1	Ice	Present
Custody Seal(s) Intact?	N/A	Temp (deg C)	4
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

COC agrees with sample labels?	Yes
Chain of Custody	Yes

Sampler Name	<u>Mike Parsons</u>
MD DW Cert. No.	<u>N/A</u>

Sample Container

Appropriate for Specified Analysis?	Yes
Intact?	Yes
Labeled and Labels Legible?	Yes

Custody Seal(s) Intact?	Not Applicable
Seal(s) Signed / Dated	Not Applicable

Total No. of Samples Received 5

Total No. of Containers Received 10

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	N/A
Do VOA vials have zero headspace?		N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Received one container per sample. COC indicates two for each. Split off approx. 125ml from each sample in an unpreserved 250ml plastic.

Samples Inspected/Checklist Completed By:

Rachel Davis

Date: 06/07/2013

PM Review and Approval:

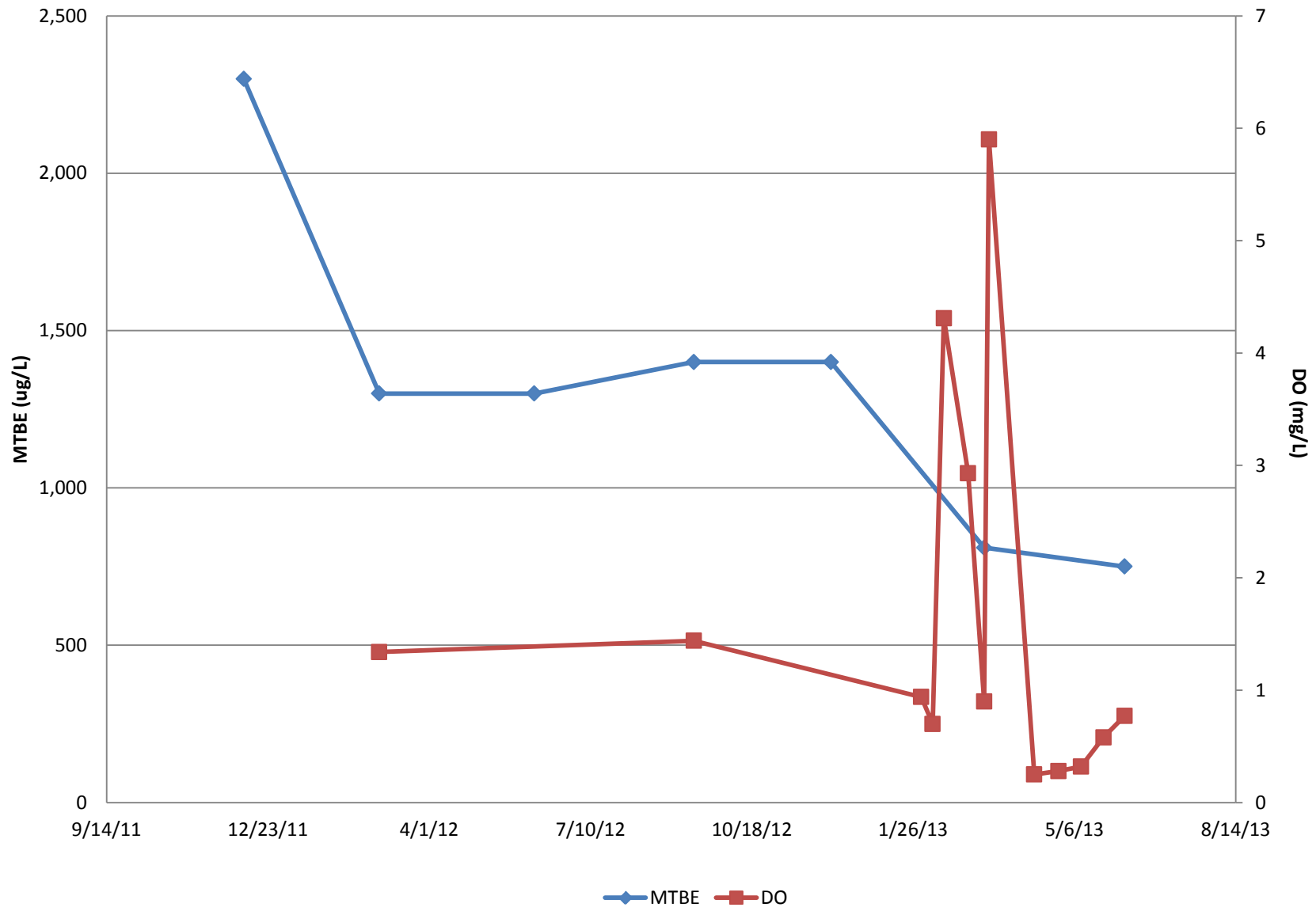
Lynn Moran

Date: 06/14/2013

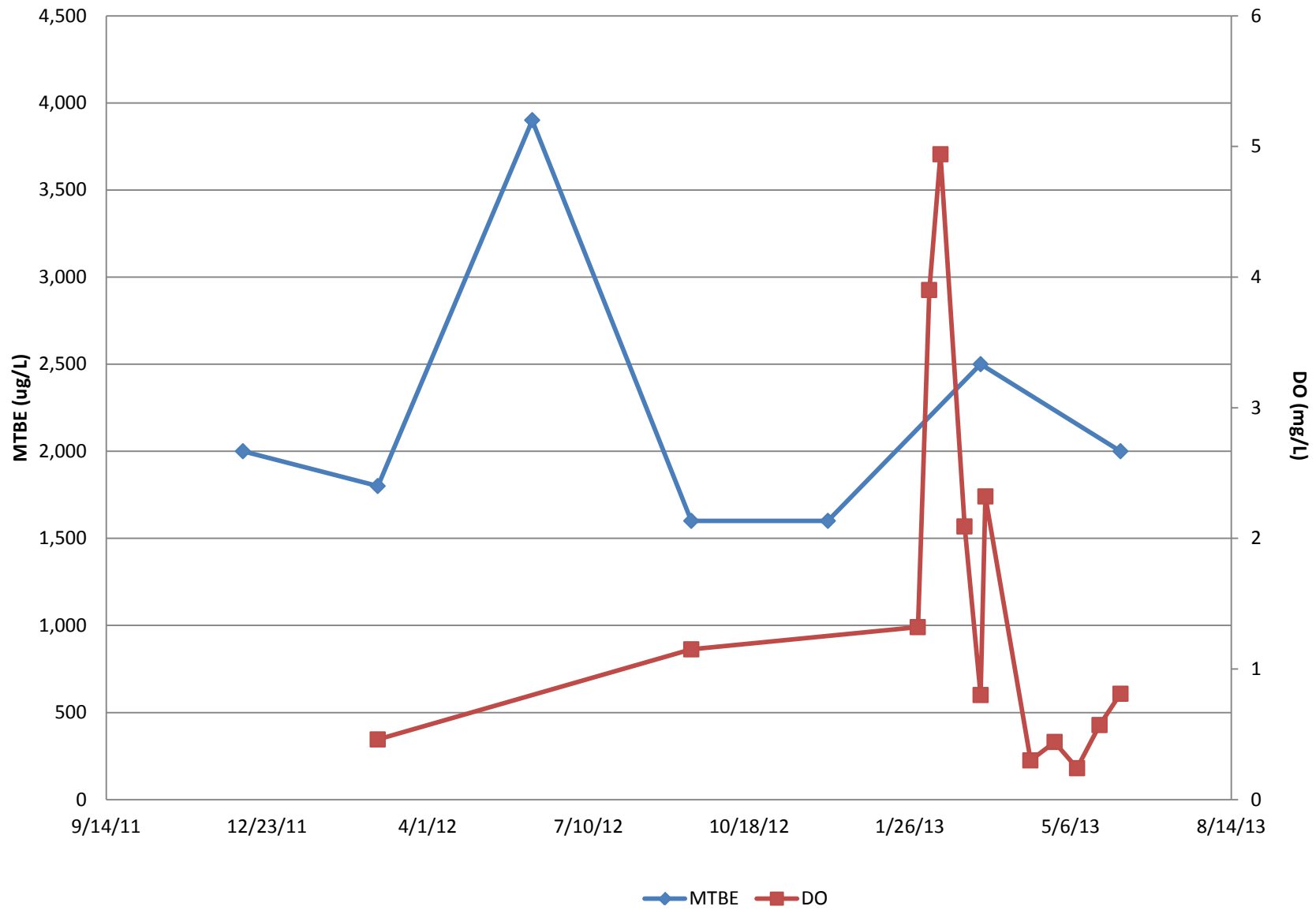
ATTACHMENT D

MTBE Concentration vs. Dissolved Oxygen Graphs

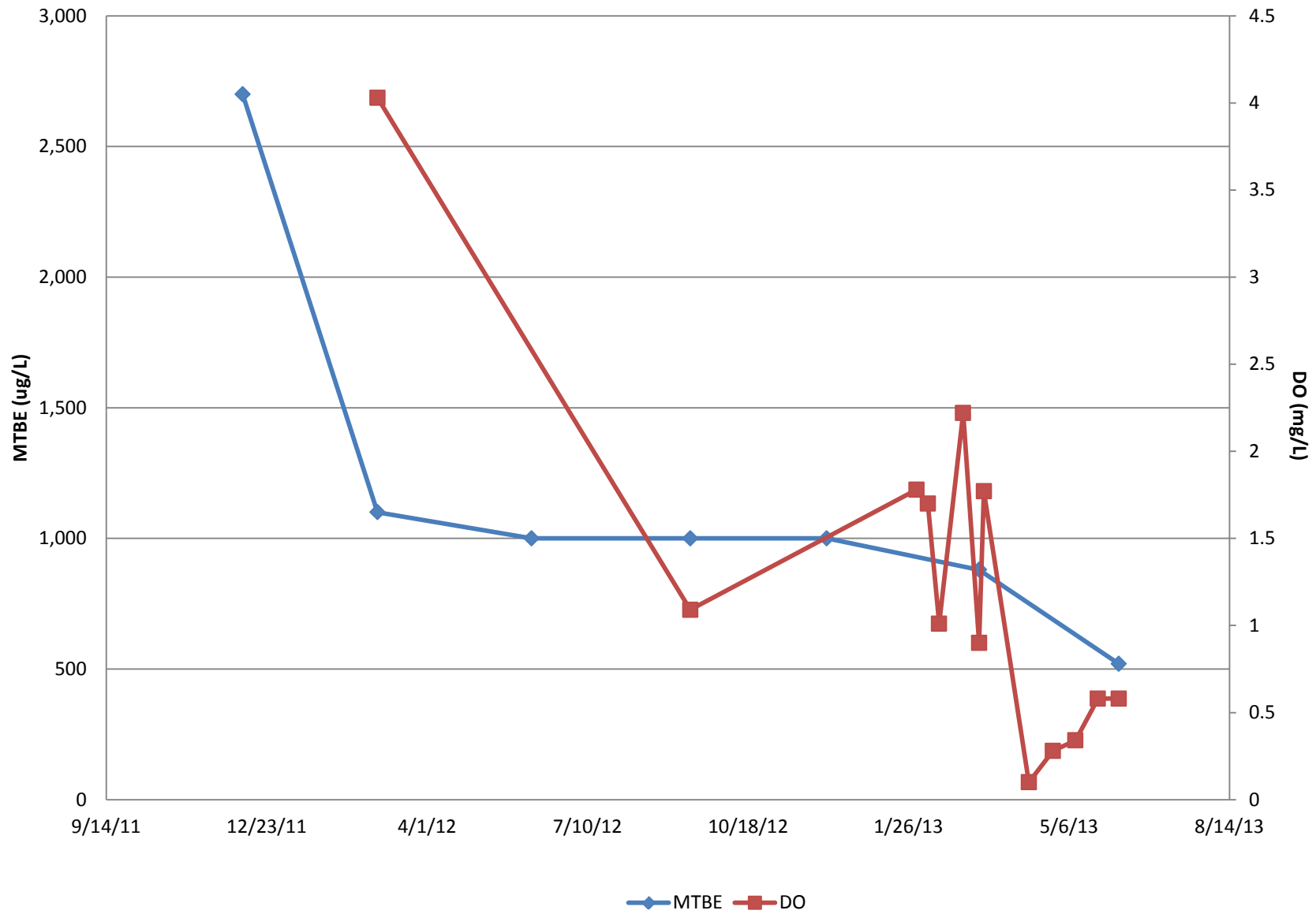
MW-6



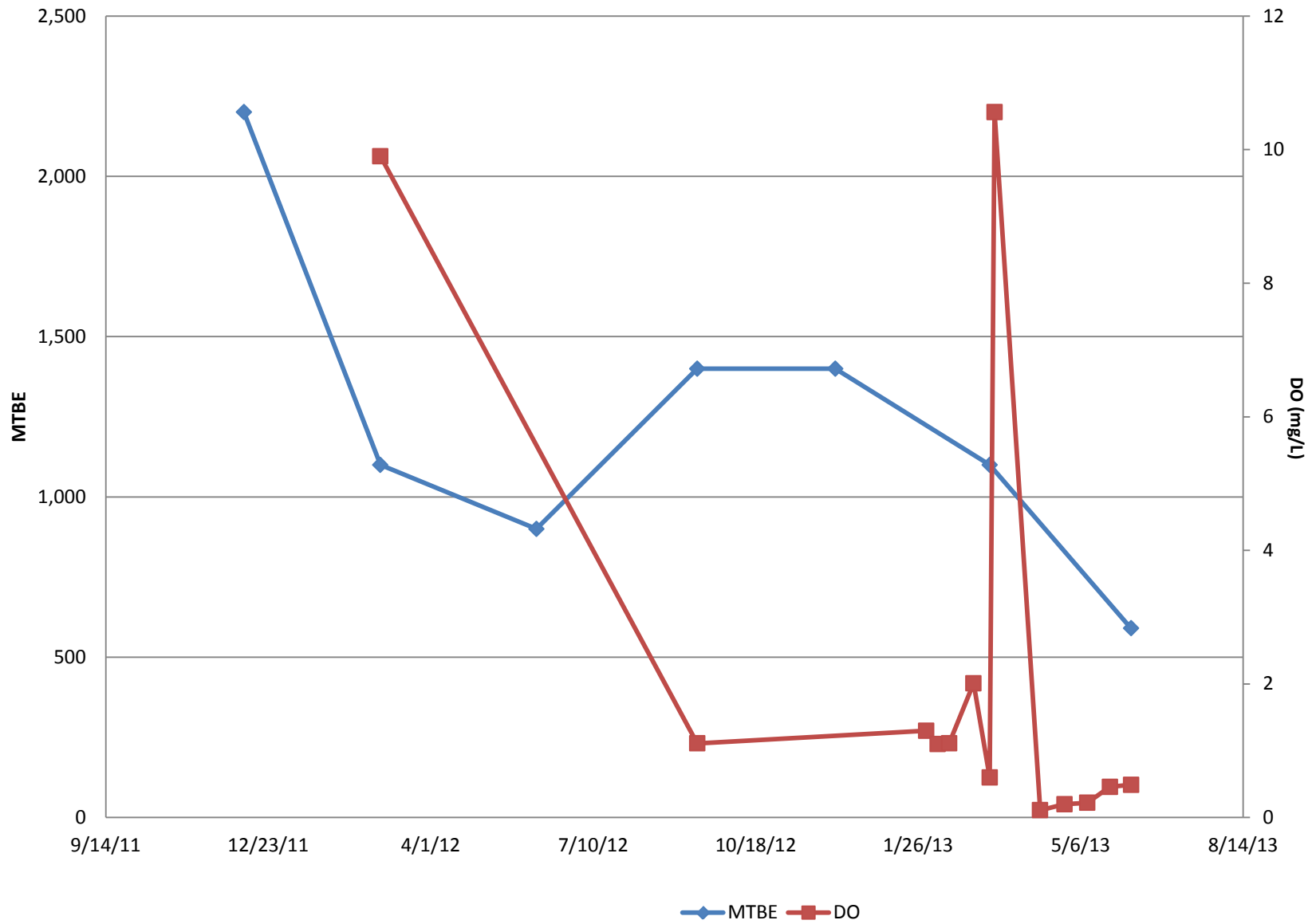
MW-9



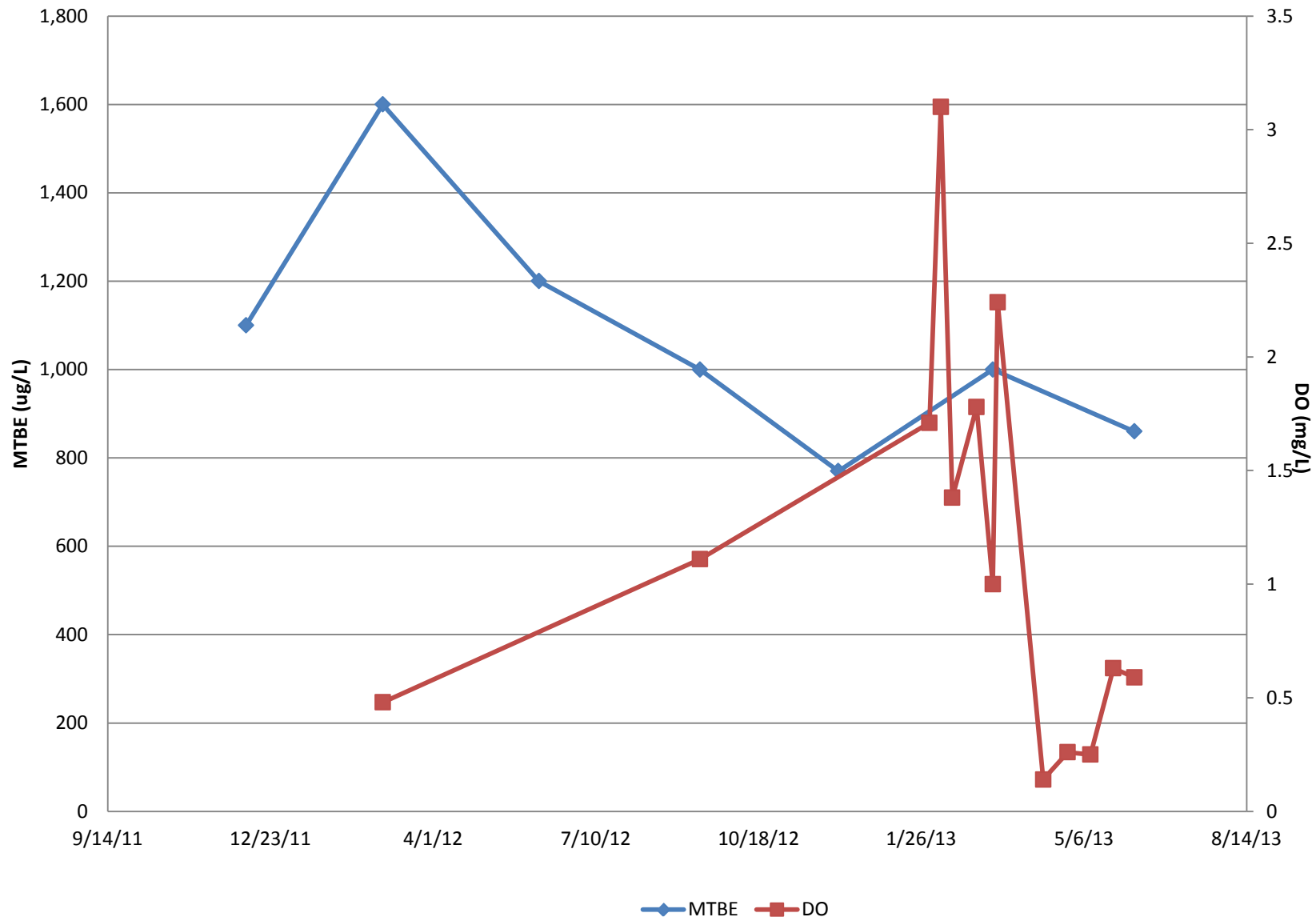
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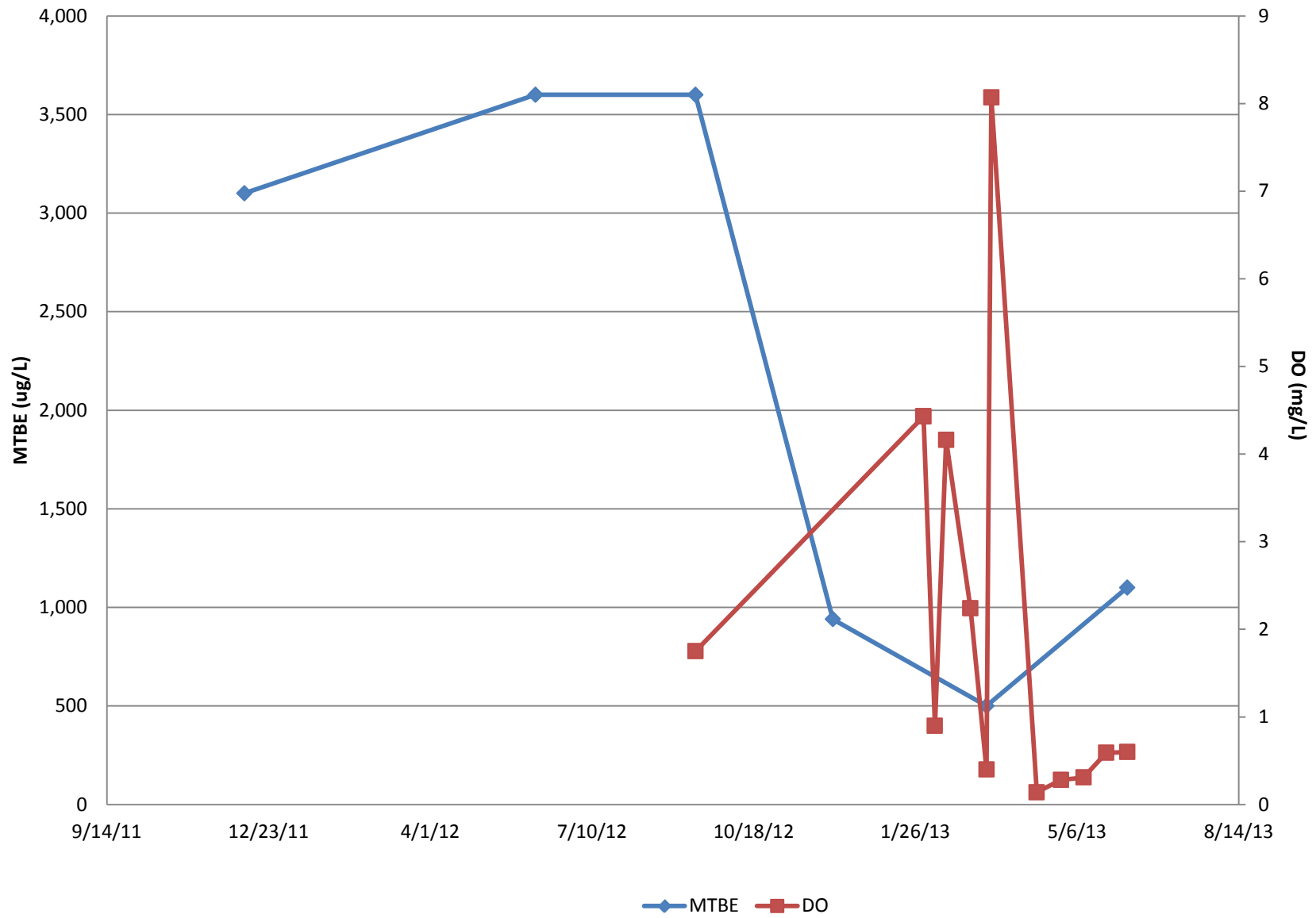
MW-11



MW-13



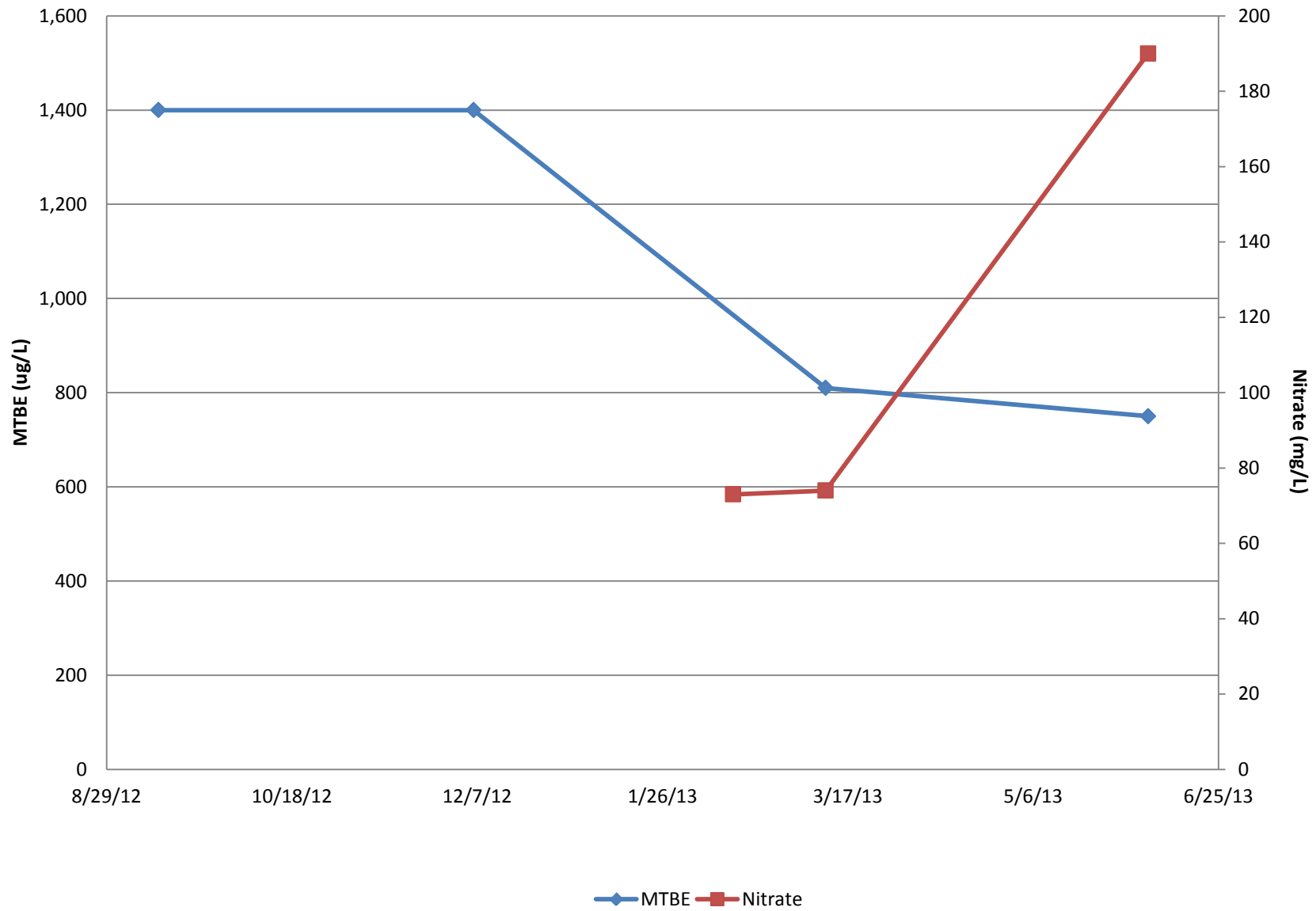
HW-3



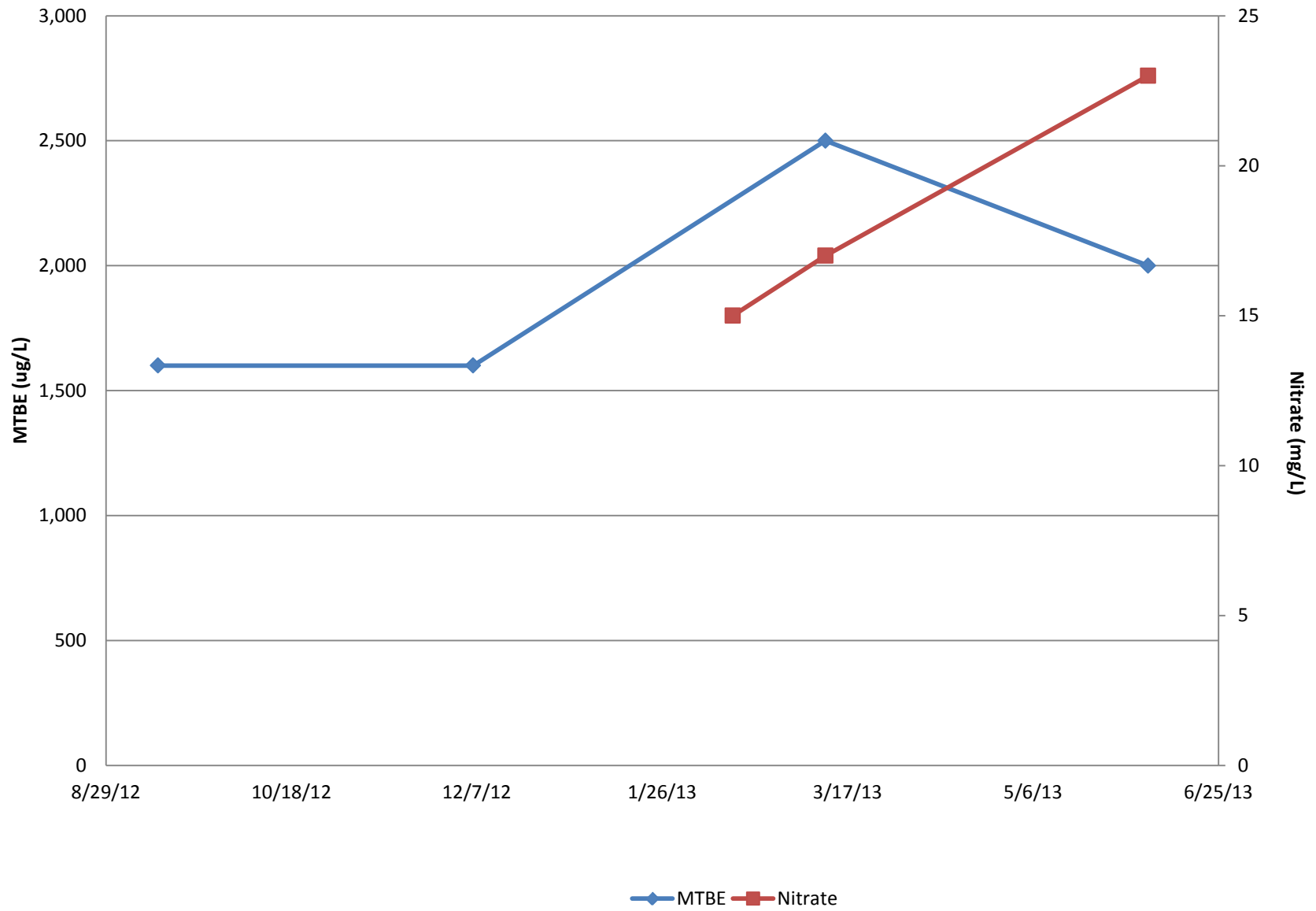
ATTACHMENT E

MTBE Concentrations vs. Nitrate Levels Graphs

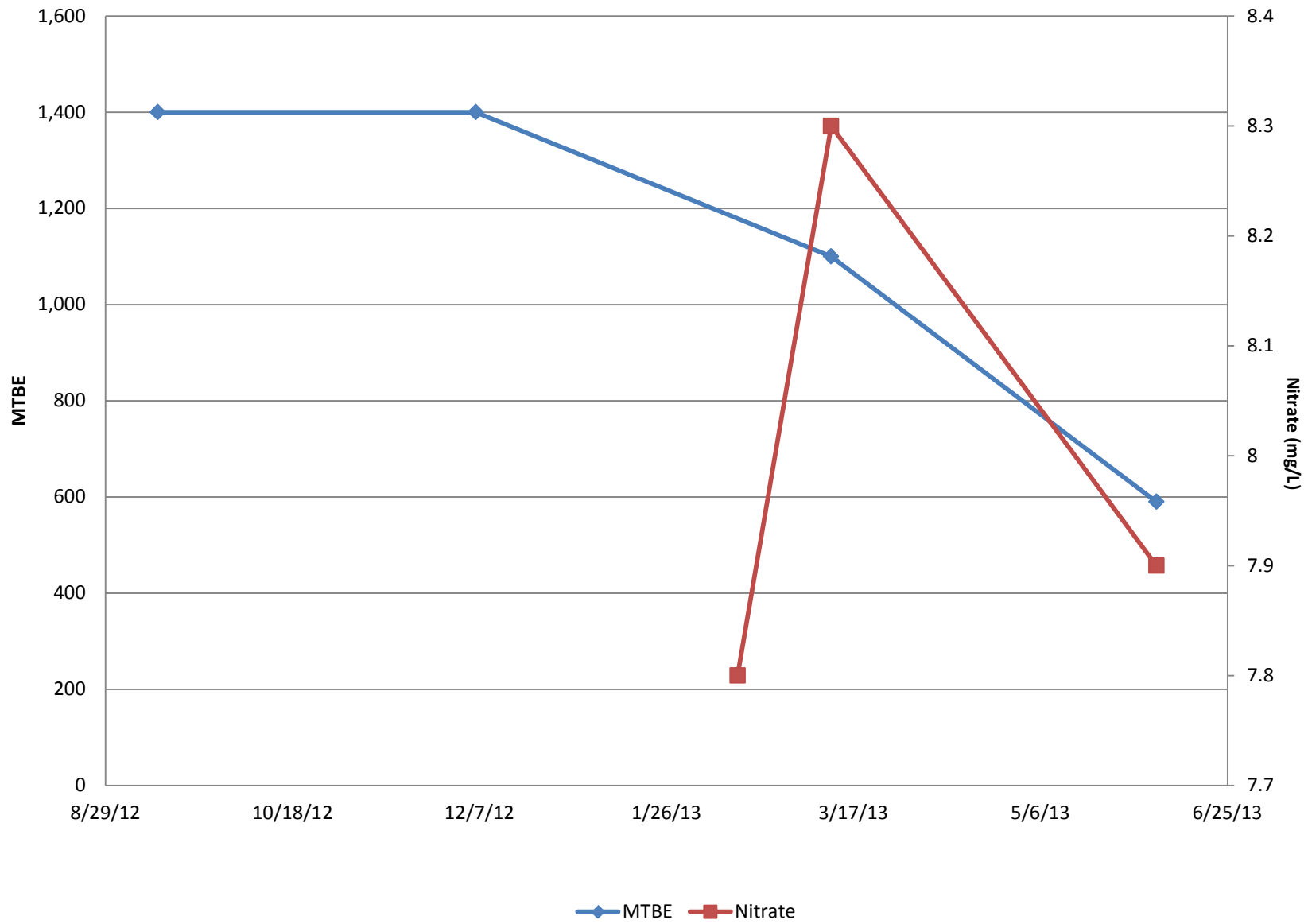
MW-6



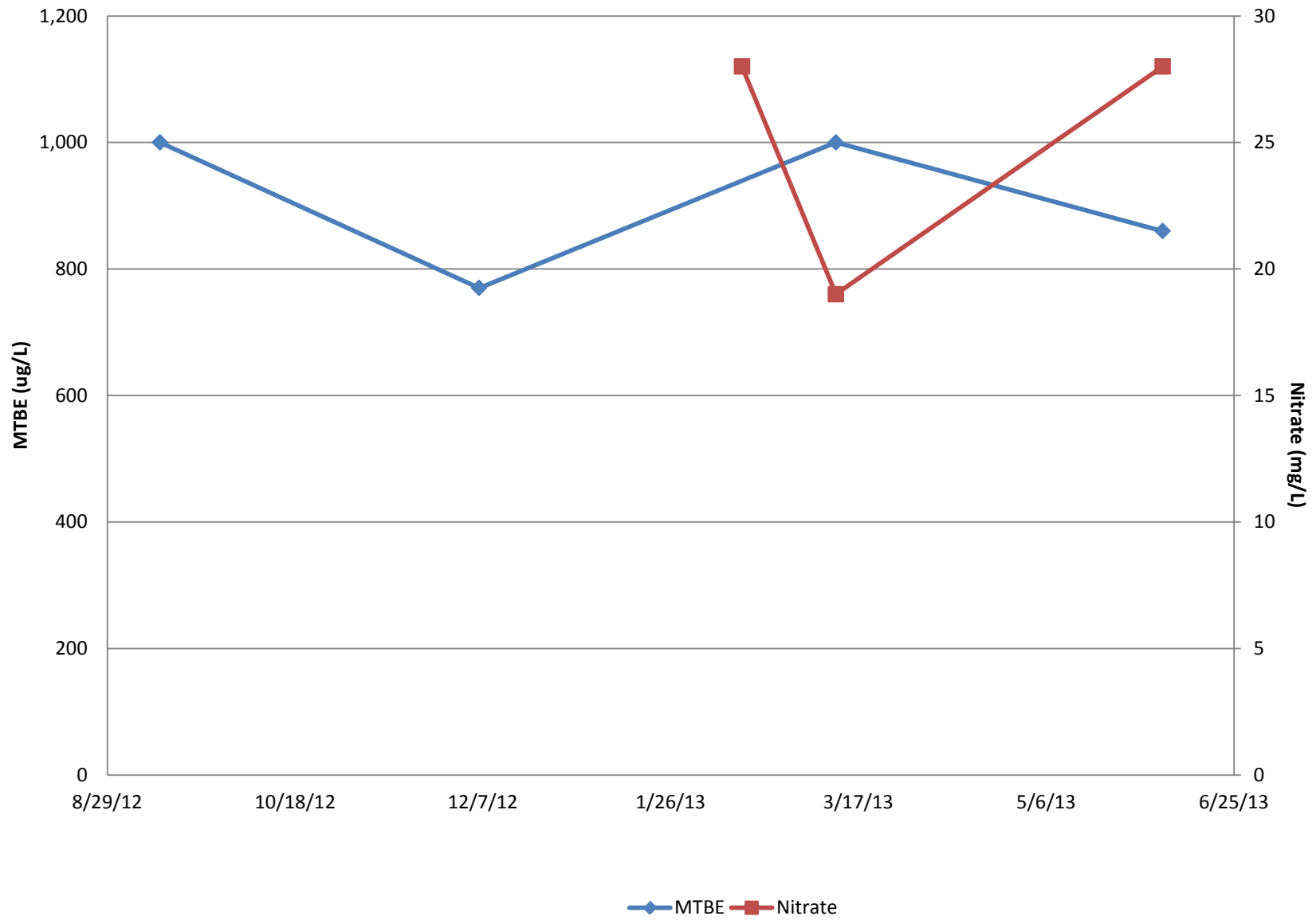
MW-9



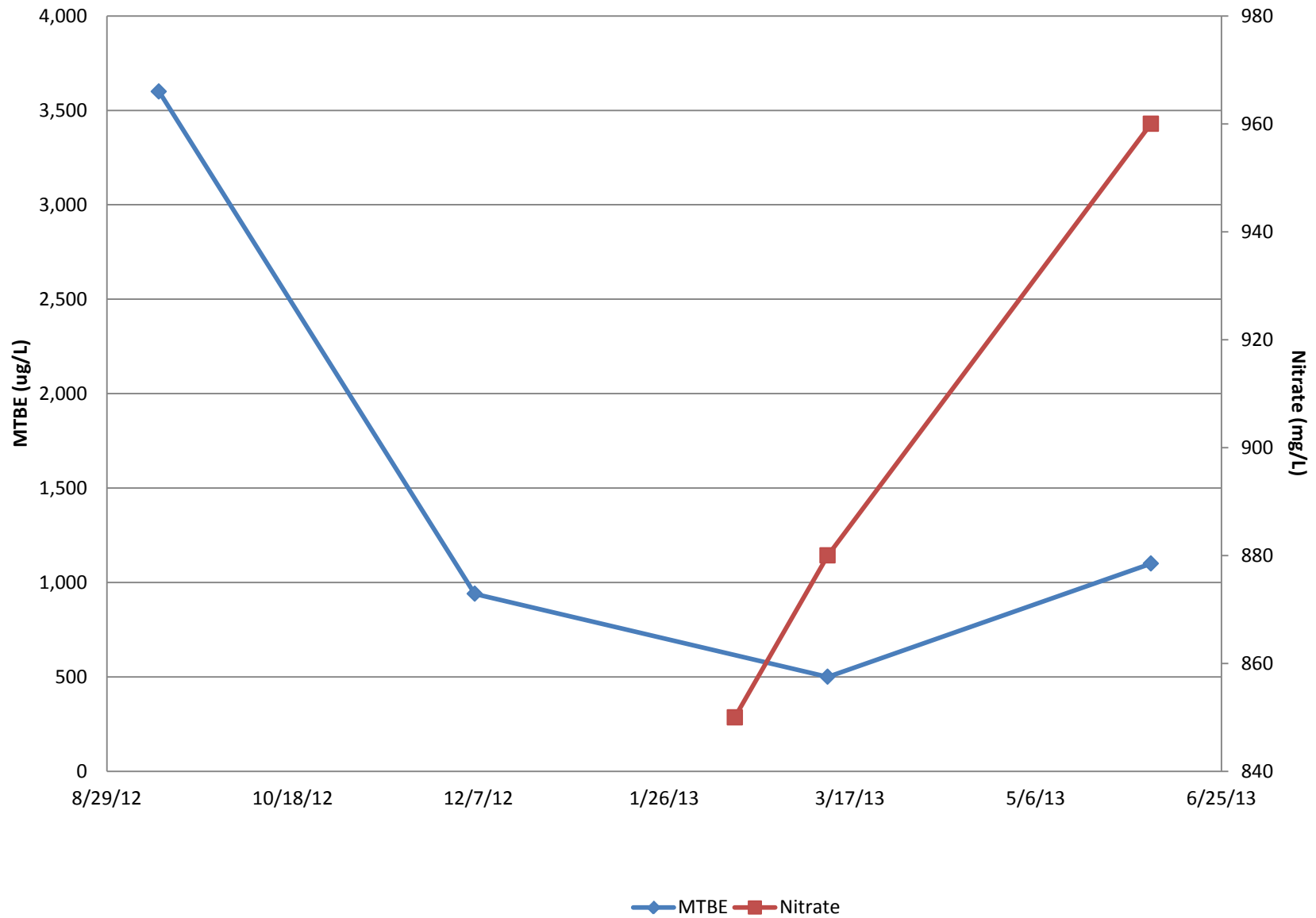
MW-11



MW-13



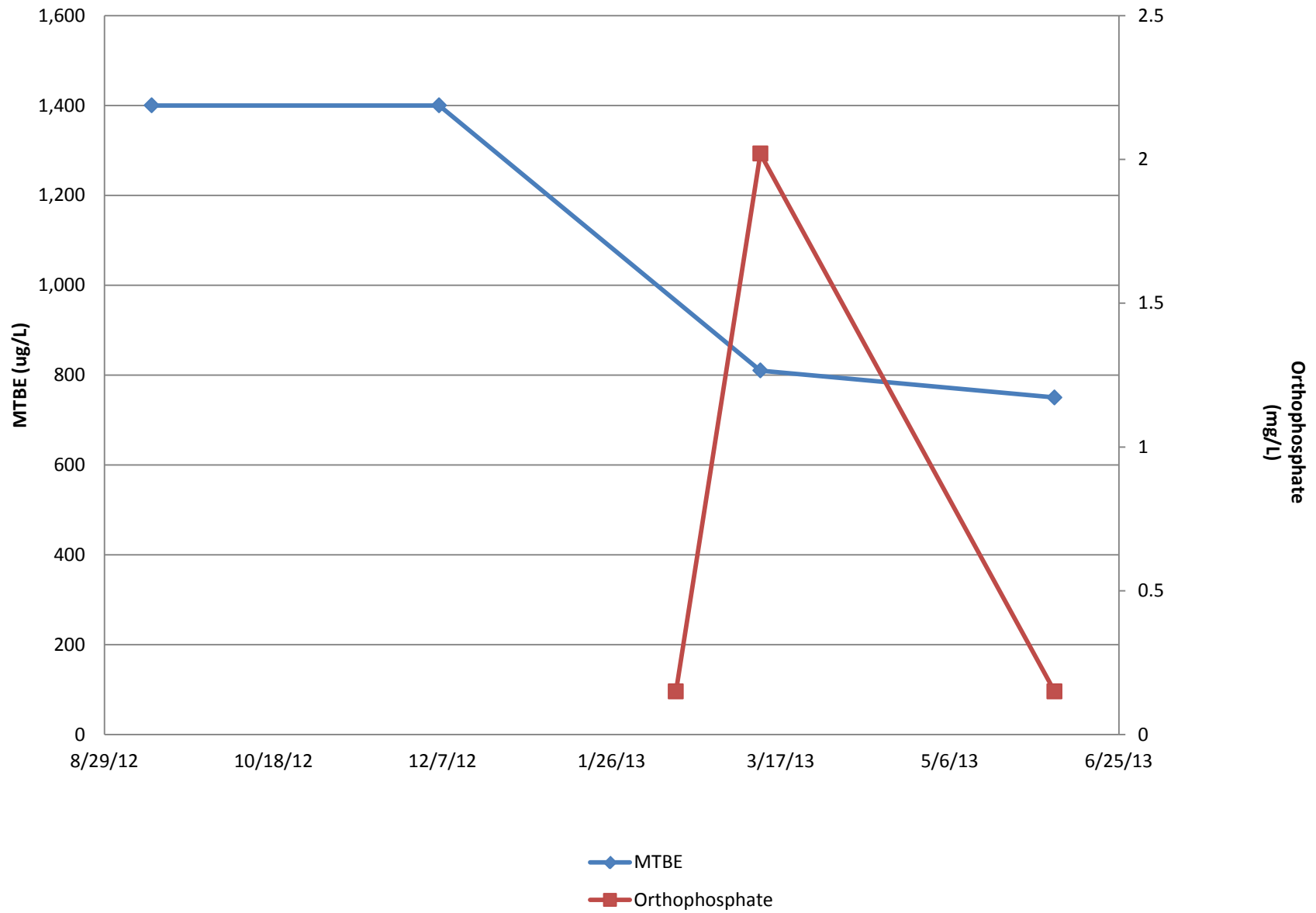
HW-3



ATTACHMENT F

MTBE Concentrations vs. Orthophosphate Levels Graphs

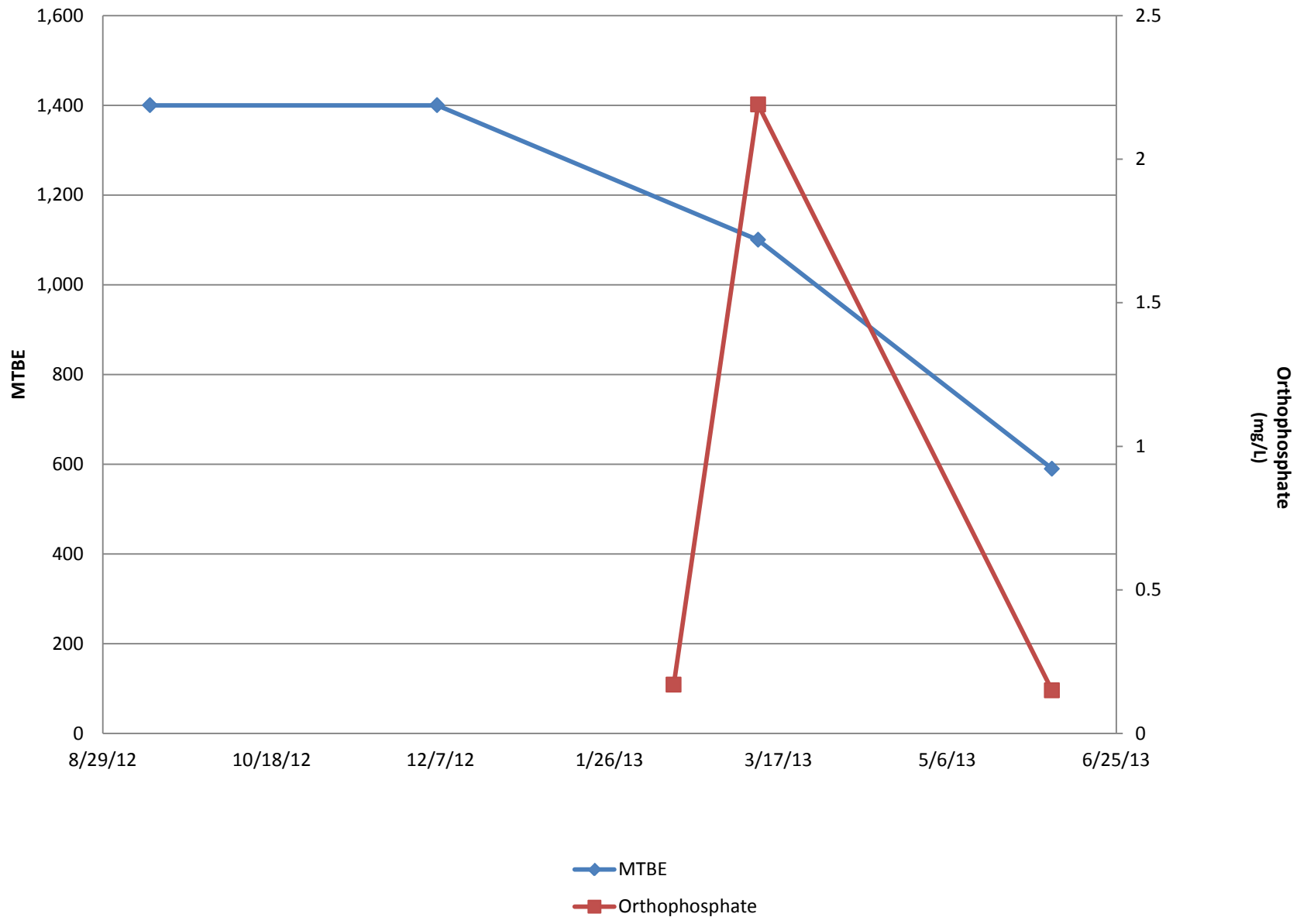
MW-6



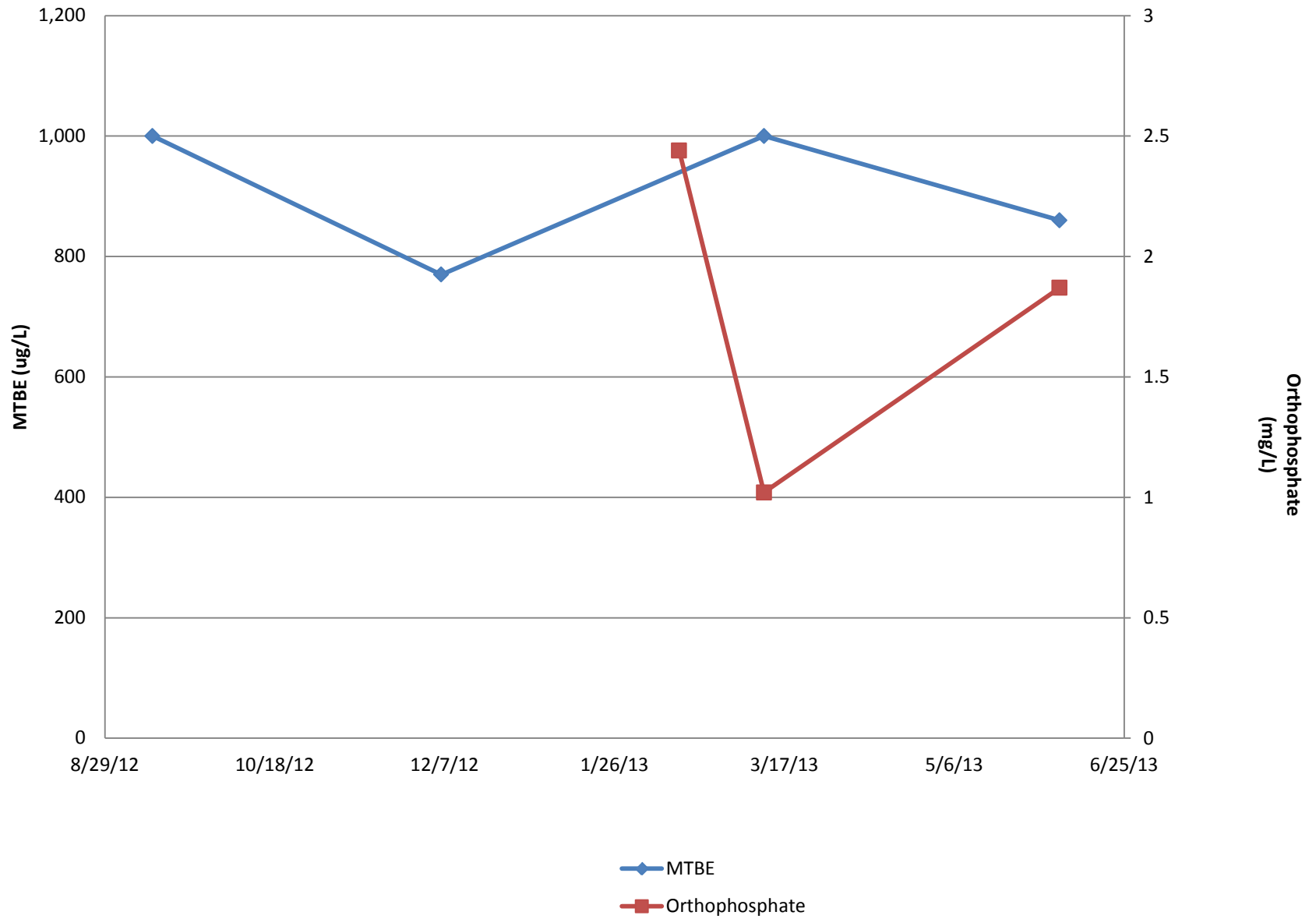
MW-9



MW-11



MW-13



HW-3

