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November 6, 2013

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

AECOM Project: 60144763

Subject: Sampling Frequency Reduction Request

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

Dear Ms. DeBartolomeo,

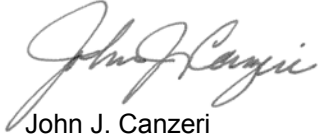
AECOM, on behalf of 7-Eleven, Inc. (7-Eleven), is responding to the Maryland Department of the Environment (MDE) letter dated March 6, 2012, outlining the pilot test work plan and site status activities requested by the department, included as **Attachment A**. The current sampling plan includes the quarterly analysis of full-suite volatile organic compounds (VOCs), including fuel oxygenates and total petroleum hydrocarbons/gasoline-range organics (TPH-GRO) in the eighteen onsite monitoring wells (MW-1A, MW-1B, MW-2, MW-3A, MW-3B, MW-4A, MW-4B, MW-5, MW-6, MW-7, MW-8A, MW-8B, MW-9 through MW-13, and HW-3) and semi-annual analysis of full-suite volatile organic compounds (VOCs), including fuel oxygenates in the off-site potable well located at 2414 Fallston Road. Additionally, the on-site potable well is sampled quarterly and analyzed for full-suite volatile organic compounds (VOCs), including fuel oxygenates. AECOM has reviewed the historical analytical data for the wells in question and respectfully requests a reduction in the sampling frequency of the on-site monitoring wells by reducing the sampling of monitoring wells MW-1A, MW-1B, MW-2, MW-3A, MW-3B, MW-5 and MW-7 to annually. **Figure 1** is a site map showing the locations of the monitoring wells and other site-related features.

Since the installation of wells MW-1A and MW-1B in 2005 and MW-3B in 2006, benzene, toluene, ethylbenzene and xylenes (BTEX), TPH-GRO, total petroleum hydrocarbons/diesel-range organics (TPH-DRO), tert-butyl alcohol (TBA) and tert-Amyl methyl ether (TAME) concentrations have never been detected above the laboratory detection limits. BTEX, TPH-GRO, TPH-DRO, TBA and TAME in wells MW-2, MW-3A, MW-5 and MW-7 have remained below laboratory detection limits since June 2006, with the exception of a TBA concentration of 24 micrograms-per-liter ($\mu\text{g/l}$) in MW-5 (December 2010) and a TPH-DRO concentration of 0.94 $\mu\text{g/l}$ in MW-7 (December 2006). Concentrations of methyl tertiary-butyl ether (MTBE) in wells MW-1A, MW-1B, MW-2, MW-3A, MW-3B and MW-7 have remained below the laboratory detection limit since March 2012 and below the MDE MTBE guidance of 20 $\mu\text{g/l}$ since March 2007. MW-5 has remained below the MDE standard since December 2006, with the exception of a detection of MTBE at a concentration of 32 $\mu\text{g/l}$ in December 2008. Historical sampling results have been included in **Table 1**. Analytical data from September 12, 2013 sampling event is included as **Attachment B**.

If this sampling reduction request is approved, AECOM would like to initiate this reduction during fourth quarter sampling event of 2013, scheduled for December 2013.

Thank you for your consideration in this matter. Please contact either of the undersigned at (240) 565-6501 if you should have any questions or require any additional information.

Sincerely yours,



John J. Canzeri
Project Manager
John.canzeri@aecom.com



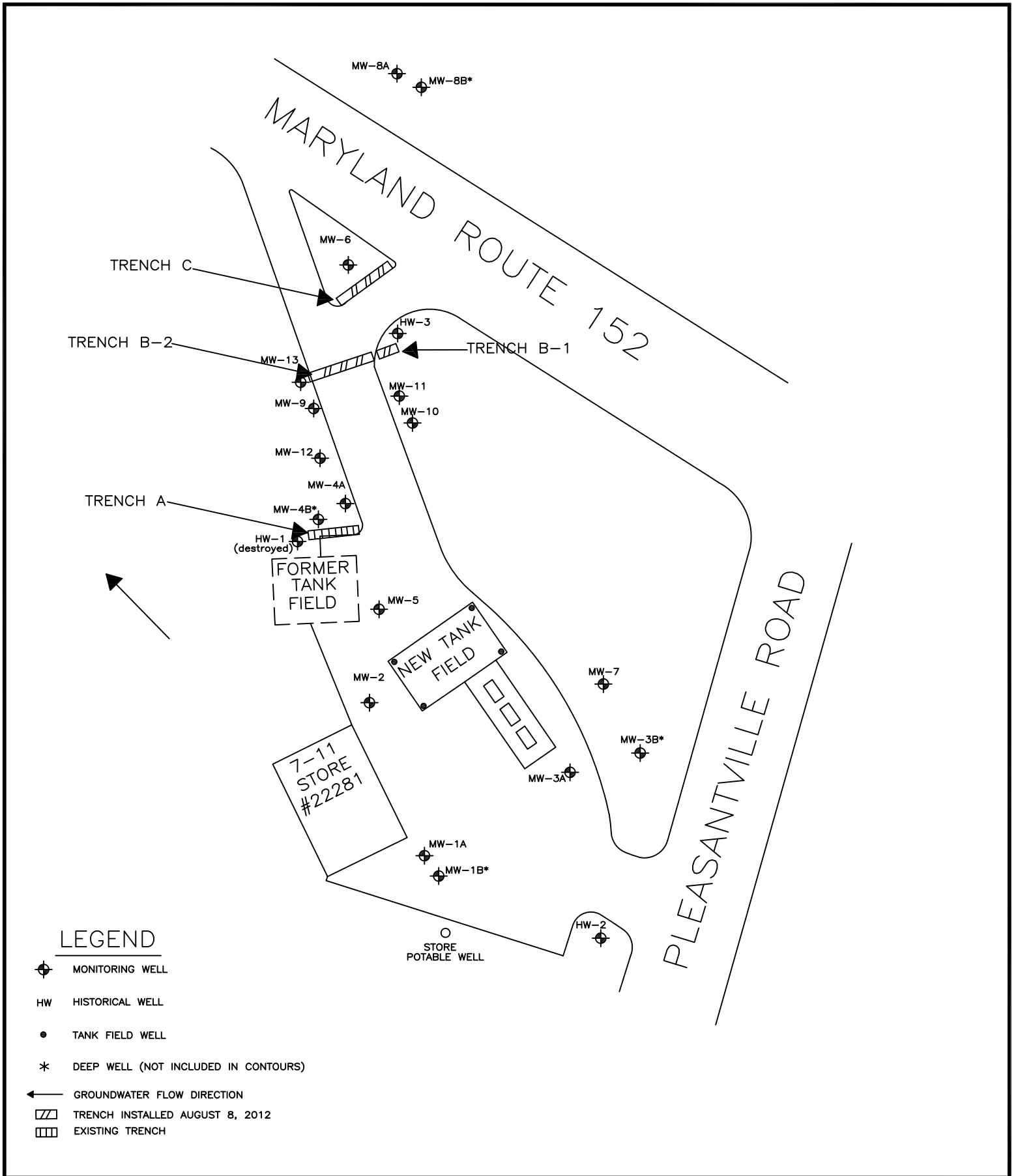
Marie Treiber
Regional Senior Project Manager
Marie.treiber@aecom.com

Attachments:








- Figure 1 – Site Plan
- Table 1 – Monitoring Well Groundwater Analytical Results
- Attachment A – MDE Approval Letter (March 6, 2012)
- Attachment B – Laboratory Analytical Report

cc: Harford County Health Department
Project File

FIGURE

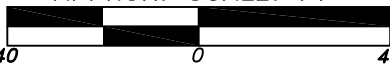


LEGEND

-  MONITORING WELL
-  HISTORICAL WELL
-  TANK FIELD WELL
-  DEEP WELL (NOT INCLUDED IN CONTOURS)
-  GROUNDWATER FLOW DIRECTION
-  TRENCH INSTALLED AUGUST 8, 2012
-  EXISTING TRENCH



APPROX. SCALE: FT



SITE PLAN
November 2013

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

FIGURE 1



Drawn By: JLT

Reviewed By: NP

Project No.: 60144763

TABLE

Table 1
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 | |
| 9/12/13 | 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 | |
| 9/12/13 | ND@1 | ND@1 | ND@1 | ND@3 | ND | ND@1 | ND@20 | ND@10 | ND@100 | NA | |

Table 1
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 | | |
| 9/12/13 | 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 | | |
| 9/12/13 | ND@1 | ND@1 | ND@1 | ND@3 | ND | ND@1 | ND@20 | ND@10 | ND@100 | NA | | |

Table 1
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 |
| | 9/12/13 | ND@1 | ND@1 | ND@1 | ND@3 | ND | ND@1 | ND@20 | ND@10 | ND@100 | NA |

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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 |
| | 9/12/13 | ND@1 | ND@1 | ND@1 | ND@3 | ND | 620 | 260 | 21 | 630 | NA |

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7-Eleven Store No. 22281
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| 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 |
| | 9/12/13 | ND@1 | ND@1 | ND@1 | ND@3 | ND | 1.6 | ND@20 | ND@10 | ND@100 | NA |

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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 | |
| 9/12/13 | ND@1 | ND@1 | ND@1 | ND@3 | ND | ND@1 | ND@20 | ND@10 | ND@100 | NA | |

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| 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 | | |
| 9/12/13 | ND@1 | ND@1 | ND@1 | ND@3 | ND | 690 | 190 | 31 | 680 | NA | | |

Table 1
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-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 | |
| 9/12/13 | ND@1 | ND@1 | ND@1 | ND@3 | ND | ND@1 | ND@20 | ND@10 | ND@100 | NA | |

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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 | |
| 9/12/13 | ND@1 | ND@1 | ND@1 | ND@3 | ND | 25 | 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 | |
| 9/12/13 | ND@1 | ND@1 | ND@1 | ND@3 | ND | 14 | ND@20 | ND@10 | ND@100 | NA | |

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 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 | |
| 9/12/13 | ND@1 | ND@1 | ND@1 | ND@3 | ND | 2,300 | 1,500 | 100 | 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 | |
| 9/12/13 | ND@1 | ND@1 | ND@1 | ND@3 | ND | 370 | 710 | 16 | 380 | NA | |

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|-----------|----------|----------------|----------------|---------------------|----------------|-------------|-------------|------------|-------------|----------------|----------------|
| 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 |
| 9/12/13 | ND@1 | ND@1 | ND@1 | ND@3 | ND | 450 | 1,200 | 21 | 480 | 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 |
| 9/12/13 | ND@1 | ND@1 | ND@1 | ND@3 | ND | 70 | ND@20 | ND@10 | ND@100 | 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 |
| 9/12/13 | ND@1 | ND@1 | ND@1 | ND@3 | ND | 880 | 280 | 41 | 840 | 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 1
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 | 1,100 | 450 | 52 | 1,200 | NA | | |
| 9/12/13 | ND@1 | ND@1 | ND@1 | ND@3 | ND | 1,000 | 950 | 38 | 810 | 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 | | | | | | |

ATTACHMENT A

MDE Approval Letter (March 6, 2012)



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:

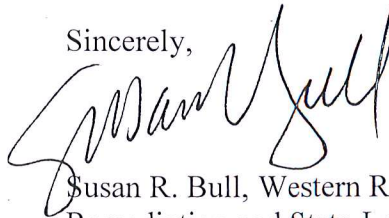
- 1) For the first 90 days after initiating *CAP* activities at the subject property, submit monthly *Update Reports* to the Oil Control Program regarding the progress of remedial activities.
- 2) **No later than January 30, 2013**, submit a *Revised Site Conceptual Model (SCM)* to reflect updated pilot 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 Report

Analytical Report for

AECOM

Certificate of Analysis No.: 13091210

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



September 19, 2013
Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770
Fax: (410) 788-8723

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800-932-9047
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PHASE SEPARATION SCIENCE, INC.



September 19, 2013

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

Reference: PSS Work Order(s) No: **13091210**
Project Name: 7-11 Fallson #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 **13091210**.

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 17, 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 Fallson #22281

Work Order Number(s): 13091210

Project ID: 60144763

The following samples were received under chain of custody by Phase Separation Science (PSS) on 09/12/2013 at 03:21 pm

| Lab Sample Id | Sample Id | Matrix | Date/Time Collected |
|---------------|-----------|--------------|---------------------|
| 13091210-001 | MW1A | GROUND WATER | 09/12/13 11:45 |
| 13091210-002 | MW1B | GROUND WATER | 09/12/13 12:00 |
| 13091210-003 | MW2 | GROUND WATER | 09/12/13 11:30 |
| 13091210-004 | MW3A | GROUND WATER | 09/12/13 12:30 |
| 13091210-005 | MW3B | GROUND WATER | 09/12/13 12:15 |
| 13091210-006 | MW4A | GROUND WATER | 09/12/13 10:25 |
| 13091210-007 | MW4B | GROUND WATER | 09/12/13 12:30 |
| 13091210-008 | MW5 | GROUND WATER | 09/12/13 13:00 |
| 13091210-009 | MW6 | GROUND WATER | 09/12/13 14:20 |
| 13091210-010 | MW7 | GROUND WATER | 09/12/13 12:45 |
| 13091210-011 | MW8A | GROUND WATER | 09/12/13 14:10 |
| 13091210-012 | MW8B | GROUND WATER | 09/12/13 13:50 |
| 13091210-013 | MW9 | GROUND WATER | 09/12/13 11:55 |
| 13091210-014 | MW10 | GROUND WATER | 09/12/13 13:25 |
| 13091210-015 | MW11 | GROUND WATER | 09/12/13 13:50 |
| 13091210-016 | MW12 | GROUND WATER | 09/12/13 12:25 |
| 13091210-017 | MW13 | GROUND WATER | 09/12/13 12:50 |
| 13091210-018 | HW3 | GROUND WATER | 09/12/13 14:10 |

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 Fallson #22281

Work Order Number(s): 13091210

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 Fallson #22281

Work Order Number(s): 13091210

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: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW1A | Date/Time Sampled: 09/12/2013 11:45 | PSS Sample ID: 13091210-001 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/17/13 | 09/17/13 09:59 | 1035 |

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 ROUTE 40 WEST
 BALTIMORE, MD 21228
 410-747-8770
 800-932-9047
 FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
 AECOM, Columbia, MD
 September 19, 2013

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

Sample ID: MW1A **Date/Time Sampled: 09/12/2013 11:45** **PSS Sample ID: 13091210-001**
Matrix: GROUND WATER **Date/Time Received: 09/12/2013 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 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Acetone | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Benzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
 AECOM, Columbia, MD
 September 19, 2013

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

Sample ID: MW1A **Date/Time Sampled: 09/12/2013 11:45** **PSS Sample ID: 13091210-001**
Matrix: GROUND WATER **Date/Time Received: 09/12/2013 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 | 09/13/13 | 09/13/13 12:57 | 1014 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Toluene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Styrene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 12:57 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW1B | Date/Time Sampled: 09/12/2013 12:00 | PSS Sample ID: 13091210-002 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/17/13 | 09/17/13 10:24 | 1035 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
September 19, 2013

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

Sample ID: MW1B **Date/Time Sampled: 09/12/2013 12:00** **PSS Sample ID: 13091210-002**
Matrix: GROUND WATER **Date/Time Received: 09/12/2013 15:21**

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> |
|---------------------------------------|---------------|--------------|-----------|-------------|------------|-----------------|-----------------|----------------|
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Acetone | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Benzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW1B | Date/Time Sampled: 09/12/2013 12:00 | PSS Sample ID: 13091210-002 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/13/13 | 09/13/13 13:27 | 1014 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Toluene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Styrene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:27 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW2 | Date/Time Sampled: 09/12/2013 11:30 | PSS Sample ID: 13091210-003 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/17/13 | 09/17/13 10:49 | 1035 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

Sample ID: MW2 **Date/Time Sampled: 09/12/2013 11:30** **PSS Sample ID: 13091210-003**
Matrix: GROUND WATER **Date/Time Received: 09/12/2013 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 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Acetone | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Benzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW2 | Date/Time Sampled: 09/12/2013 11:30 | PSS Sample ID: 13091210-003 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/13/13 | 09/13/13 13:56 | 1014 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Toluene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Styrene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 13:56 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW3A | Date/Time Sampled: 09/12/2013 12:30 | PSS Sample ID: 13091210-004 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/17/13 | 09/17/13 11:14 | 1035 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
September 19, 2013

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

Sample ID: MW3A **Date/Time Sampled: 09/12/2013 12:30** **PSS Sample ID: 13091210-004**
Matrix: GROUND WATER **Date/Time Received: 09/12/2013 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 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Acetone | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Benzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW3A | Date/Time Sampled: 09/12/2013 12:30 | PSS Sample ID: 13091210-004 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/13/13 | 09/13/13 14:26 | 1014 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Toluene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Tetrachloroethene | 1.0 | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Styrene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:26 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW3B | Date/Time Sampled: 09/12/2013 12:15 | PSS Sample ID: 13091210-005 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/17/13 | 09/17/13 11:39 | 1035 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

Sample ID: MW3B **Date/Time Sampled: 09/12/2013 12:15** **PSS Sample ID: 13091210-005**
Matrix: GROUND WATER **Date/Time Received: 09/12/2013 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 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Acetone | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Benzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW3B | Date/Time Sampled: 09/12/2013 12:15 | PSS Sample ID: 13091210-005 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/13/13 | 09/13/13 14:55 | 1014 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Toluene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Styrene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 14:55 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW4A | Date/Time Sampled: 09/12/2013 10:25 | PSS Sample ID: 13091210-006 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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) | 630 | ug/L | 100 | | 1 | 09/17/13 | 09/17/13 12:05 | 1035 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
 AECOM, Columbia, MD
 September 19, 2013

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

Sample ID: MW4A **Date/Time Sampled: 09/12/2013 10:25** **PSS Sample ID: 13091210-006**
Matrix: GROUND WATER **Date/Time Received: 09/12/2013 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 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| tert-Butyl alcohol | 260 | ug/L | 200 | | 10 | 09/13/13 | 09/17/13 12:07 | 1014 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Acetone | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Methyl-t-butyl ether | 620 | ug/L | 10 | | 10 | 09/13/13 | 09/17/13 12:07 | 1014 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Chloroform | 8.0 | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Benzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
 AECOM, Columbia, MD
 September 19, 2013

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

Sample ID: MW4A **Date/Time Sampled: 09/12/2013 10:25** **PSS Sample ID: 13091210-006**
Matrix: GROUND WATER **Date/Time Received: 09/12/2013 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 | 09/13/13 | 09/13/13 15:24 | 1014 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Toluene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| tert-Amyl methyl ether | 21 | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Styrene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 15:24 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW4B | Date/Time Sampled: 09/12/2013 12:30 | PSS Sample ID: 13091210-007 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/17/13 | 09/17/13 12:30 | 1035 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW4B | Date/Time Sampled: 09/12/2013 12:30 | PSS Sample ID: 13091210-007 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Acetone | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Methyl-t-butyl ether | 1.6 | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Benzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW4B | Date/Time Sampled: 09/12/2013 12:30 | PSS Sample ID: 13091210-007 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/13/13 | 09/13/13 16:23 | 1014 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Toluene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Styrene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:23 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW5 | Date/Time Sampled: 09/12/2013 13:00 | PSS Sample ID: 13091210-008 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/17/13 | 09/17/13 12:55 | 1035 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW5 | Date/Time Sampled: 09/12/2013 13:00 | PSS Sample ID: 13091210-008 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Acetone | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Benzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
September 19, 2013

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

Sample ID: MW5 **Date/Time Sampled: 09/12/2013 13:00** **PSS Sample ID: 13091210-008**
Matrix: GROUND WATER **Date/Time Received: 09/12/2013 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 | 09/13/13 | 09/13/13 16:52 | 1014 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Toluene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Styrene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 16:52 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW6 | Date/Time Sampled: 09/12/2013 14:20 | PSS Sample ID: 13091210-009 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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) | 680 | ug/L | 100 | | 1 | 09/17/13 | 09/17/13 13:20 | 1035 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW6 | Date/Time Sampled: 09/12/2013 14:20 | PSS Sample ID: 13091210-009 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| tert-Butyl alcohol | 190 | ug/L | 20 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Acetone | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Methyl-t-butyl ether | 690 | ug/L | 10 | | 10 | 09/13/13 | 09/16/13 16:48 | 1014 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Chloroform | 2.2 | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Benzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

Sample ID: MW6 **Date/Time Sampled: 09/12/2013 14:20** **PSS Sample ID: 13091210-009**
Matrix: GROUND WATER **Date/Time Received: 09/12/2013 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 | 09/13/13 | 09/13/13 17:22 | 1014 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Toluene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| tert-Amyl methyl ether | 31 | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Styrene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/13/13 | 09/13/13 17:22 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW7 | Date/Time Sampled: 09/12/2013 12:45 | PSS Sample ID: 13091210-010 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/17/13 | 09/17/13 13:45 | 1035 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

Sample ID: MW7 **Date/Time Sampled: 09/12/2013 12:45** **PSS Sample ID: 13091210-010**
Matrix: GROUND WATER **Date/Time Received: 09/12/2013 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 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Acetone | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Methyl-t-butyl ether | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Benzene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW7 | Date/Time Sampled: 09/12/2013 12:45 | PSS Sample ID: 13091210-010 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/17/13 | 09/17/13 11:37 | 1014 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Toluene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Styrene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 11:37 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW8A | Date/Time Sampled: 09/12/2013 14:10 | PSS Sample ID: 13091210-011 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/17/13 | 09/17/13 06:37 | 1035 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW8A | Date/Time Sampled: 09/12/2013 14:10 | PSS Sample ID: 13091210-011 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Acetone | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Methyl-t-butyl ether | 25 | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Benzene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW8A | Date/Time Sampled: 09/12/2013 14:10 | PSS Sample ID: 13091210-011 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/17/13 | 09/17/13 13:35 | 1014 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Toluene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Styrene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/17/13 | 09/17/13 13:35 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW8B | Date/Time Sampled: 09/12/2013 13:50 | PSS Sample ID: 13091210-012 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/17/13 | 09/17/13 07:02 | 1035 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
 AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW8B | Date/Time Sampled: 09/12/2013 13:50 | PSS Sample ID: 13091210-012 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Acetone | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Methyl-t-butyl ether | 14 | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Benzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
 AECOM, Columbia, MD
 September 19, 2013

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

Sample ID: MW8B **Date/Time Sampled: 09/12/2013 13:50** **PSS Sample ID: 13091210-012**
Matrix: GROUND WATER **Date/Time Received: 09/12/2013 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 | 09/16/13 | 09/16/13 14:14 | 1014 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Toluene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Styrene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 14:14 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW9 | Date/Time Sampled: 09/12/2013 11:55 | PSS Sample ID: 13091210-013 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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) | 2,100 | ug/L | 100 | | 1 | 09/17/13 | 09/17/13 07:27 | 1035 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

Sample ID: MW9 **Date/Time Sampled: 09/12/2013 11:55** **PSS Sample ID: 13091210-013**
Matrix: GROUND WATER **Date/Time Received: 09/12/2013 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 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| tert-Butyl alcohol | 1,500 | ug/L | 1,000 | | 50 | 09/16/13 | 09/17/13 15:33 | 1014 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Acetone | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Methyl-t-butyl ether | 2,300 | ug/L | 50 | | 50 | 09/16/13 | 09/17/13 15:33 | 1014 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Chloroform | 2.9 | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Benzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW9 | Date/Time Sampled: 09/12/2013 11:55 | PSS Sample ID: 13091210-013 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/16/13 | 09/16/13 13:15 | 1014 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Toluene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Diisopropyl ether | 10 | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| tert-Amyl methyl ether | 100 | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| tert-Amyl alcohol | 46 | ug/L | 20 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Styrene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 13:15 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW10 | Date/Time Sampled: 09/12/2013 13:25 | PSS Sample ID: 13091210-014 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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) | 380 | ug/L | 100 | | 1 | 09/17/13 | 09/17/13 07:53 | 1035 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW10 | Date/Time Sampled: 09/12/2013 13:25 | PSS Sample ID: 13091210-014 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| tert-Butyl alcohol | 710 | ug/L | 200 | | 10 | 09/16/13 | 09/17/13 13:05 | 1014 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Acetone | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Methyl-t-butyl ether | 370 | ug/L | 10 | | 10 | 09/16/13 | 09/17/13 13:05 | 1014 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Chloroform | 8.7 | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Benzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW10 | Date/Time Sampled: 09/12/2013 13:25 | PSS Sample ID: 13091210-014 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/16/13 | 09/16/13 15:19 | 1014 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Toluene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| tert-Amyl methyl ether | 16 | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| tert-Amyl alcohol | 38 | ug/L | 20 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Styrene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:19 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW11 | Date/Time Sampled: 09/12/2013 13:50 | PSS Sample ID: 13091210-015 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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) | 480 | ug/L | 100 | | 1 | 09/17/13 | 09/17/13 08:18 | 1035 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210

AECOM, Columbia, MD

September 19, 2013

Project Name: 7-11 Fallson #22281

Project Location: Fallston, MD

Project ID: 60144763

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW11 | Date/Time Sampled: 09/12/2013 13:50 | PSS Sample ID: 13091210-015 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 15:21 | |

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> |
|---------------------------------------|---------------|--------------|-----------|-------------|------------|-----------------|-----------------|----------------|
| Dichlorodifluoromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| tert-Butyl alcohol | 1,200 | ug/L | 200 | | 10 | 09/16/13 | 09/17/13 14:04 | 1014 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Acetone | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Methyl-t-butyl ether | 450 | ug/L | 10 | | 10 | 09/16/13 | 09/17/13 14:04 | 1014 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Chloroform | 9.2 | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Benzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW11 | Date/Time Sampled: 09/12/2013 13:50 | PSS Sample ID: 13091210-015 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/16/13 | 09/16/13 15:49 | 1014 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Toluene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| tert-Amyl methyl ether | 21 | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| tert-Amyl alcohol | 67 | ug/L | 20 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Styrene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 15:49 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW12 | Date/Time Sampled: 09/12/2013 12:25 | PSS Sample ID: 13091210-016 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/17/13 | 09/17/13 08:43 | 1035 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW12 | Date/Time Sampled: 09/12/2013 12:25 | PSS Sample ID: 13091210-016 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| tert-Butyl alcohol | ND | ug/L | 20 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Acetone | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Methyl-t-butyl ether | 70 | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Chloroform | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Benzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
September 19, 2013

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

Sample ID: MW12 **Date/Time Sampled: 09/12/2013 12:25** **PSS Sample ID: 13091210-016**
Matrix: GROUND WATER **Date/Time Received: 09/12/2013 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 | 09/16/13 | 09/16/13 17:17 | 1014 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Toluene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| tert-Amyl methyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Styrene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:17 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW13 | Date/Time Sampled: 09/12/2013 12:50 | PSS Sample ID: 13091210-017 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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) | 840 | ug/L | 100 | | 1 | 09/17/13 | 09/17/13 09:08 | 1035 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
 AECOM, Columbia, MD
 September 19, 2013

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

Sample ID: MW13 **Date/Time Sampled: 09/12/2013 12:50** **PSS Sample ID: 13091210-017**
Matrix: GROUND WATER **Date/Time Received: 09/12/2013 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 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| tert-Butyl alcohol | 280 | ug/L | 200 | | 10 | 09/16/13 | 09/17/13 14:34 | 1014 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Acetone | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Methyl-t-butyl ether | 880 | ug/L | 10 | | 10 | 09/16/13 | 09/17/13 14:34 | 1014 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Chloroform | 1.1 | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Benzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: MW13 | Date/Time Sampled: 09/12/2013 12:50 | PSS Sample ID: 13091210-017 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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 | 09/16/13 | 09/16/13 17:47 | 1014 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Toluene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| tert-Amyl methyl ether | 41 | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| tert-Amyl alcohol | ND | ug/L | 20 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Styrene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 17:47 | 1014 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
 September 19, 2013

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

| | | |
|-----------------------------|---|------------------------------------|
| Sample ID: HW3 | Date/Time Sampled: 09/12/2013 14:10 | PSS Sample ID: 13091210-018 |
| Matrix: GROUND WATER | Date/Time Received: 09/12/2013 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) | 810 | ug/L | 100 | | 1 | 09/17/13 | 09/17/13 09:33 | 1035 |

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210

AECOM, Columbia, MD

September 19, 2013

Project Name: 7-11 Fallson #22281

Project Location: Fallston, MD

Project ID: 60144763

Sample ID: HW3 **Date/Time Sampled: 09/12/2013 14:10** **PSS Sample ID: 13091210-018**
Matrix: GROUND WATER **Date/Time Received: 09/12/2013 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 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Chloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Vinyl Chloride | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| tert-Butyl alcohol | 950 | ug/L | 200 | | 10 | 09/16/13 | 09/17/13 15:03 | 1014 |
| Bromomethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Chloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Acetone | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Cyclohexane | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Trichlorofluoromethane | ND | ug/L | 5.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Methylene Chloride | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Methyl-t-butyl ether | 1,000 | ug/L | 10 | | 10 | 09/16/13 | 09/17/13 15:03 | 1014 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| 2-Butanone (MEK) | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Bromochloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Chloroform | 6.0 | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Carbon Tetrachloride | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Benzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Methyl Acetate | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Methylcyclohexane | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Trichloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Carbon Disulfide | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Bromodichloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |

OFFICES:
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410-747-8770
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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 13091210
AECOM, Columbia, MD
September 19, 2013

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

Sample ID: HW3 **Date/Time Sampled: 09/12/2013 14:10** **PSS Sample ID: 13091210-018**
Matrix: GROUND WATER **Date/Time Received: 09/12/2013 15:21**

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 | 09/16/13 | 09/16/13 18:16 | 1014 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Toluene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| 2-Hexanone | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Dibromochloromethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| tert-Amyl ethyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| tert-Butyl ethyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Diisopropyl ether | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| tert-Amyl methyl ether | 38 | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| tert-Amyl alcohol | 40 | ug/L | 20 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Bromoform | ND | ug/L | 5.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Tetrachloroethene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Chlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Ethylbenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| m,p-Xylenes | ND | ug/L | 2.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Styrene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| o-Xylene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Isopropylbenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 10 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| Naphthalene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | | 1 | 09/16/13 | 09/16/13 18:16 | 1014 |



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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

PHASE SEPARATION SCIENCE, INC.

| | | | | | | | | | |
|---|------------------------|--|-----------------|--|----------------|---|--------------------------------------|--|---------|
| 1 *CLIENT: <u>AFCOM</u> *OFFICE LOC. <u>Columbia, MD</u> PSS Work Order #: <u>13091210</u> PAGE <u>1</u> OF <u>2</u> | | | | | | | | | |
| *PROJECT MGR: <u>John Carter</u> *PHONE NO.: <u>240 565-6501</u> *PROJECT NAME: <u>2-11 Fallsbyen #2228</u> PROJECT NO.: <u>00144763</u> SITE LOCATION: <u>Fallsbyen, MD</u> P.O. NO.: <u>458149cm</u> SAMPLER(S): <u>Mike Barrett, Mike Pappas</u> DW CERT NO.: | | | | | | | | | |
| 2 LAB NO. | *SAMPLE IDENTIFICATION | *DATE (SAMPLED) | *TIME (SAMPLED) | MATRIX (See Codes) | No. CONTAINERS | SAMPLE TYPE C = COMP G = GRAB | Preservatives Used <u>492 HCL</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 | |
| 1 | MW1A | 9/22/13 | 11:45 | Grw | 6 | 60 | ✓ | Analysis/Method Required 3 * FV1705 + OXI 8300 TPA-Gra 8015 | REMARKS |
| 2 | MW1B | | 12:00 | | 6 | | ✓ | | |
| 3 | MW2 | | 11:30 | | 6 | | ✓ | | |
| 4 | MW3A | | 12:30 | | 6 | | ✓ | | |
| 5 | MW3B | | 12:15 | | 6 | | ✓ | | |
| 6 | MW4A | | 10:25 | | 6 | | ✓ | | |
| 7 | MW4D | | 12:30 | | 6 | | ✓ | | |
| 8 | MW5 | | 13:00 | | 6 | | ✓ | | |
| 9 | MW6 | | 14:20 | | 6 | | ✓ | | |
| 10 | MW7 | | 12:45 | | 6 | | ✓ | | |
| 5 Relinquished By: <u>[Signature]</u> Date: <u>9/22/13</u> Time: <u>15:01</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 | | # of Coolers: _____ Custody Seal: <u>ABS</u> | | Ice Preservation: <u>Pres</u> Temp: <u>12°C</u> Shipping Carrier: <u>Chent</u> | | Data Deliverables Required: <input checked="" type="checkbox"/> COA <input type="checkbox"/> ΣC <input type="checkbox"/> SUMM <input type="checkbox"/> CLP <input type="checkbox"/> LIKE <input type="checkbox"/> OTHER | |
| Relinquished By: (2) _____ Date: _____ Time: _____ Received By: _____ | | Special Instructions: | | DW COMPLIANCE? YES <input type="checkbox"/> NO <input type="checkbox"/> EDD FORMAT TYPE: <u>AFCOM</u> | | STATE RESULTS REPORTED TO: <input checked="" type="checkbox"/> MD <input type="checkbox"/> DE <input type="checkbox"/> PA <input type="checkbox"/> VA <input type="checkbox"/> WV <input type="checkbox"/> OTHER | | | |
| 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 • (410) 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: AEcom *OFFICE LOC. Columbia, md *PSS Work Order #: 13091210 PAGE 2 OF 2

*PROJECT MGR: John Careri *PHONE NO.: 244 565-6541 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.: _____

*PROJECT NAME: 7-11 Fallsen #22281 PROJECT NO.: 60144763

SITE LOCATION: Fallsen, MD P.O. NO.: 45814900

SAMPLER(S): Nick Barrera, Mike Parsons DW CERT NO.: _____

| LAB NO. | *SAMPLE IDENTIFICATION | *DATE (SAMPLED) | *TIME (SAMPLED) | MATRIX (See Codes) | CONTAINER NO. | SAMPLE TYPE C = COMP G = GRAB | Preservatives Used | Analysis/Method Required | REMARKS |
|---------|------------------------|-----------------|-----------------|--------------------|---------------|-------------------------------------|--------------------|--------------------------|---------|
| | | | | | | | | | |
| 11 | MW84 | 9/12/13 | 14:10 | GW | 6 | G | None | 3 | |
| 12 | MW85 | | 13:50 | | 6 | | | | |
| 13 | MW7 | | 11:55 | | 6 | | | | |
| 14 | MW10 | | 13:25 | | 6 | | | | |
| 15 | MW11 | | 13:50 | | 6 | | | | |
| 16 | MW12 | | 12:25 | | 6 | | | | |
| 17 | MW13 | | 12:50 | | 6 | | | | |
| 18 | Hw3 | | 14:10 | | 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

of Coolers: 1
 Custody Seal: MS
 Ice Present: Pro Temp: 120C
 Shipping Carrier: Abert

Special Instructions: _____

DW COMPLIANCE? YES NO

EDD FORMAT TYPE: AEcom

STATE RESULTS REPORTED TO:
 MD 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



Phase Separation Science, Inc

Sample Receipt Checklist

| | | | |
|-----------------------|---------------------|----------------------|------------------------|
| Work Order # | 13091210 | Received By | Robyn Rhudy |
| Client Name | AECOM | Date Received | 09/12/2013 03:21:00 PM |
| Project Name | 7-11 Fallson #22281 | Delivered By | Client |
| Project Number | 60144763 | Tracking No | Not Applicable |
| Disposal Date | 10/17/2013 | Logged In By | Robyn Rhudy |

Shipping Container(s)

| | | | |
|-------------------------|-----|--------------------|---------|
| No. of Coolers | 1 | Ice | Present |
| Custody Seal(s) Intact? | N/A | Temp (deg C) | 12 |
| 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: 09/12/2013

Robyn Rhudy

PM Review and Approval:

Date: 09/13/2013

Amy Friedlander