Quarterly Progress Report – 1st Quarter 2015

Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901
MDE OCP Case No. 2011-0729-CE
Closed Case No. 99-2595-CE
Facility ID No. 13326

AEC Project Number: 05-056RF096

Prepared for:
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And

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Regulatory Information

Regulatory Agency:	Maryland Department of the Environment (MDE)
Agency Contact:	Jeannette Debartolomeo
Case Number:	OCP Case No. 2011-0729-CE
Facility ID:	13326
Case Status:	Vapor Extraction / Groundwater Extraction (VE/GE) System Operation. Quarterly Monitoring Well Sampling Quarterly Bedrock Well Sampling Quarterly Recovery Well Sampling Quarterly Potable-water Well Sampling: 505 Mechanics Valley Road 513 Mechanics Valley Road 500 Mechanics Valley Road (onsite) 463 Mechanics Valley Road 475 Mechanics Valley Road 487 Mechanics Valley Road 493 Mechanics Valley Road 10 Montgomery Drive Semi-annual Monitored Natural Attenuation VE System Weekly Pulsing
Reporting Period:	Groundwater Sampling: First Quarter 2015 System operation: 1-1-15 through 3-31-15

General Site Information

Royal Farms Contact:	Tom Ruszin
Consultant Contact:	Jeff Stein/James Wolf
Facility Status:	Operating fuel station
Area Property Use:	See Site Vicinity, Site Features, Potable Well Location and Site Utility Maps (Figures 1, 2, 3 and 4 in Attachment A)
Monitoring Wells:	MW-1R, MW-2, MW-4 through MW-6, MW-8 through MW-16, TP-1, TP-2, TP-3, TP-4
VE/GE System Wells:	MW-7, RW-1, RW-2, RW-3, RW-4, RW-6, RW-8, RW-9, RW-10, RW-11, RW-12, (RW-5, RW-7, RW-13 not used for recovery)
Bedrock Wells:	MW-10D, MW-12D, and MW-13D
On-site Potable Well:	CE-94-3354
Off-site Potable Wells:	CE-88-0994, CE-94-0008, CE-81-0226, hand dug well (no permit), CE-81-0886, CE-94-6569
Liquid Phase Hydrocarbon (LPH) Present:	LPH sheen last observed in recovery well RW-4 on February 25, 2013
Min/Max Groundwater Elevation:	83.70 / 91.22 feet on February 25, 2015 relative to an arbitrary benchmark of 100 feet.
Groundwater Flow Direction:	Southwest

Project Summary

June 8, 2011:	During a routine groundwater sampling event approximately two-inches of LPH were detected in groundwater monitoring well MW-3.
June 13, 2011:	The MDE opened a case in response to a report of evidence of a petroleum spill at the Site. Enhanced Fluid Recovery (EFR) operations via a vac-truck were implemented.

July 19, 2011:	*Emergency Subsurface Environmental Investigation* Report summarized the collection of soil and groundwater samples from 24 boring locations (B-1 through B-24).
July 22, 2011:	*Corrective Action Plan (CAP)* presented the design for a multi-phase EFR system. The CAP did not provide some necessary final design parameters with regard to feasibility of the technology and process/treatment equipment sizing, it was recommended that a 4- to 8-hour pilot study be conducted using a LRP skid.
Aug. 2, 2011:	*Recovery Well Install Data Pack* summarized the installation of six groundwater recovery (RW-1 thru RW-6) and five groundwater monitoring (MW-4 thru MW-8) wells between July 14 and 19, 2011.
Aug. 3, 2011:	*Corrective Action Plan Addendum* summarized the results of the EFR pilot study using the liquid ring pump (LRP) skid.
Aug. 9, 2011:	*Surfactant Flush Pilot Study Work Plan* described the surfactant injection/extraction means and methods, and pre- and post-flushing groundwater monitoring activities. This plan was not approved by the MDE.
Aug. 24, 2011:	*Receptor Survey – Addendum* summarized the surrounding potable well details.
Sept. 13, 2011:	*Design Basis Summary* summarized the July 27, 2011 EFR pilot study findings. The Design Basis Summary described the dual phase recovery technology which replaced the EFR technology due to water and vapor recovery limitations of the EFR equipment.
Oct. 17, 2011:	*Underground Storage Tank System Closure Report* summarized the UST system removal activities and the excavation oversight and confirmatory sampling associated with this task.
Oct. 21, 2011:	*3rd Quarter 2011 Quarterly Groundwater Monitoring Report* summarized the September 15, 2011 sampling event.
Nov. 4, 2011:	*Bedrock Well Installation Work Plan* summarized the means and methods for the installation of the deep groundwater monitoring wells.
Jan. 10, 2012:	*4th Quarter 2011 Quarterly Groundwater Monitoring Report* summarized the December 14 and December 15, 2011 sampling event.
Jan. 31, 2012:	*Dual Phase System Design Pilot Study Report* summarized the results of the dual phase integrated VE/GE pilot study using pneumatic submersible pumps for liquid removal and a positive displacement vacuum blower for vapor removal.
Feb. 6, 2012:	*Deep Well Installation Data Package* summarized the installation of three deep bedrock wells between January 26 and February 2, 2012.
March 20, 2012:	*Recovery Well Installation Data Package* summarized the installation of seven groundwater recovery (RW-7 thru RW-13) and nine groundwater monitoring (MW-1R and MW-9 thru MW-16) wells between October 13 and 27, 2011.
April 11, 2012:	*Corrective Action Plan – Final* presented the design for the VE/GE system.
April 12, 2012:	*Work Plan for Deep Well Discrete Groundwater Sampling* summarized the testing means and methods for testing discrete intervals of the groundwater column in the deep wells.
April 27, 2012:	*1st Quarter 2012 Quarterly Groundwater Monitoring Report* summarized the March 15, 2012 sampling event.
May 7, 2012:	*Analysis of Borehole Geophysical Surveys Conducted March 7-8, 2012* summarized the deep well borehole geophysics study.
July 12, 2012:	*2nd Quarter 2012 Quarterly Groundwater Monitoring Report* summarized the June 21, 2012 sampling event.
Oct. 10, 2012:	*3rd Quarter 2012 Quarterly Groundwater Monitoring Report* summarized the September 6, 2012 sampling event.
Sept. 17, 2012:	*Addendum to Work Plan for Deep Well Discrete Groundwater Sampling* clarified concerns regarding the Work Plan for Deep Well Discrete

	Groundwater Sampling, dated April 12, 2012. This document also summarizes the means and methods for the deep well packer testing.
Sept. 20, 2012:	The final EFR event prior to start-up of the VE/GE system was performed. Since initiating this program in June 2011, an estimated 364,258 gallons of total liquids was recovered through the EFR events. Approximately 192.6 gallons of this material was estimated to be LPH.
Nov. 26, 2012:	*Well Gauging Data and Recovery Estimates* summarized the vac-truck EFR work.
Dec. 2012:	VE/GE system installation is completed and the system is started up.
Jan. 7, 2013:	*VE/GE System Initial Report* summarized the systems operation between startup on 12-11-12 through 1-2-13.
Jan. 10, 2013:	*VE/GE System Monthly Update Report for January 2012* summarized the period of operation between 12-11-12 through 1-8-13.
Jan. 14, 2013:	4th Quarter 2012 Discharge Monitoring Report is submitted to the MDE.
Jan. 21, 2013:	*Request for Removal of Control Devices* summarized the system vapor effluent conditions following the 14-day pilot study. This request was made to the Air and Radiation Management Administration (ARMA).
Jan. 22-31, 2013:	Conducted field portion of packer testing task.
Feb. 8, 2013:	*Remedial Action Report and Monthly Update Report* summarized the systems operation between startup on 12-11-12 through 2-7-13.
Feb. 14, 2013:	*Quarterly Progress Report – 4th Quarter 2012 (revised)* outlined VE/GE System operation and recovery estimates between 12-12-12 and 12-31-12, as well as groundwater and potable well sampling procedures and results for the quarter.
March 6, 2013:	*Vapor Extraction/Groundwater Extraction System – Third Monthly Update Report* summarized the systems operation between 2-8-13 and 3-6-13.
March 14, 2013:	*Packer Testing Report* summarized the findings of the Packer testing which was conducted in January 2013.
March 28, 2013	*Corrective Action Plan Addendum (CAPA)* is submitted to MDE to provide remedial goals for the Site and propose completion dates, submission dates, and/or schedules for investigative and remedial work and reporting thereon.
April 16, 2013:	1st Quarter Discharge Monitoring Report is submitted to the MDE.
April 22, 2013:	1st Quarter 2013 potable well sampling results submitted to the Cecil County Health Department.
May 7, 2013:	*Quarterly Progress Report – 1st Quarter 2013* outlined VE/GE System operation and recovery estimates between 1-1-13 and 3-31-13, as well as groundwater and potable well sampling procedures and results for the quarter.
May 29, 2013:	CAPA response from MDE approved a change in the quarterly groundwater sampling procedure to allow the purge and sample method. In addition, the letter approved a HydraSleeve sampling approach to the deep monitoring wells and required a groundwater level study to be completed following the next quarterly sampling event.
July 8, 2013:	2nd Quarter 2013 potable well sampling results submitted to the Cecil County Health Department.
July 9, 2013:	2nd Quarter Discharge Monitoring Report is submitted to the MDE.
August 8, 2013:	*Quarterly Progress Report –2nd Quarter 2013* outlined VE/GE System operation and recovery estimates between 4-1-13 and 6-30-13, as well as groundwater and potable well sampling procedures and results for the quarter.
October 8, 2013:	3rd Quarter 2013 potable well sampling results submitted to the Cecil County Health Department. 3rd Quarter Discharge Monitoring Report is submitted to the MDE.

October 21, 2013:	*Quarterly Progress Report and Water Level Study–3rd Quarter 2013* outlined VE/GE System operation and recovery estimates between 7-1-13 and 9-30-13, as well as groundwater and potable well sampling procedures and results for the quarter.
January 29, 2014:	4th Quarter 2013 potable well sampling results submitted to the Cecil County Health Department. 4th Quarter Discharge Monitoring Report is submitted to the MDE.
February 12, 2014:	*Quarterly Progress Report – 4th Quarter 2013* outlined VE/GE System operation and recovery estimates between 10-1-13 and 12-31-13, as well as groundwater and potable well sampling procedures and results for the quarter.
March 14, 2014:	1st Quarter 2014 potable well sampling results submitted to the Cecil County Health Department.
April 1, 2014:	MDE issued a *Site Status Letter* approving a request to require quarterly sampling of the regularly sampled supply wells. The MDE approved the beginning of AEC's proposed 8-week pulsing trial of the VE portion of the VE/GE System. The *Site Status Letter* also required the beginning of semi-annual collection of samples for analysis of natural attenuation parameters.
April 30, 2014:	1st Quarter - 2014 Discharge Monitoring Report is submitted to the MDE.
May 5, 2014:	*Quarterly Progress Report –1st Quarter 2014* outlined VE/GE System operation and recovery estimates between 1-1-14 and 3-31-14, as well as groundwater and potable well sampling procedures and results for the quarter.
May 9, 2014:	MDE approves a request by AEC to extend the trial pulsing by four weeks for a total of twelve weeks.
May 27, 2014:	MDE approves a request by AEC to modify sampling of MW-10D and MW-12D. The modification includes sampling of MW-10D at 91.5 feet and MW-12D at 147.5 feet intervals only. MW13D will continue to be sampled at shallow and deep intervals. All previously sampled intervals within all three wells will be sampled annually.
June 26, 2014:	2nd Quarter 2014 potable well sampling results submitted to the Cecil County Health Department.
July 24, 2014:	2nd Quarter - 2014 Discharge Monitoring Report is submitted to the MDE. *Quarterly Progress Report –2nd Quarter 2014* outlined VE/GE System operation and recovery estimates between 4-1-14 and 6-30-14, as well as groundwater and potable well sampling procedures and results for the quarter.
Aug. 14, 2014:	MDE authorizes continuation of a pulsed approach to vapor extraction.
Oct. 7, 2014:	3rd Quarter - 2014 Discharge Monitoring Report is submitted to the MDE.
Oct. 23, 2014:	3rd Quarter 2014 potable well sampling results submitted to the Cecil County Health Department.
Oct. 24, 2014:	MDE authorizes a modification of Monitored Natural Attenuation (MNA) sampling requirements. Samples will be collected for MNA parameters from monitoring wells (MW-6. MW-7, MW-8, MW-9 and MW-11) semi-annually.
Nov. 6, 2014:	Quarterly Progress Report –3rd Quarter 2014 outlined VE/GE System operation and recovery estimates between 7-1-14 and 9-30-14, as well as groundwater and potable well sampling procedures and results for the quarter.
January 9, 2015:	3rd Quarter - 2014 Discharge Monitoring Report is submitted to the MDE.
January 6, 2015:	3rd Quarter 2014 potable well sampling results submitted to the Cecil County Health Department.
February 15, 2015:	Quarterly Progress Report – 4th Quarter 2014 outlined VE/GE System operation and recovery estimates between 10-1-14 and 12-31-14, as well as groundwater and potable well sampling procedures and results for the quarter.

February 25, 2015:	AEC submits a *Rebound Evaluation Work Plan* outlining monitoring procedures and decision making criteria for a conditional discontinuation of operation of the VE/GE system.
March 27, 2015:	AEC submits request for Modification of Water Supply Well Sampling Schedule.

Work Authorized and Performed During this Quarter

January 7:	VE/GE system operation and maintenance (O&M), GE system sampling, monitoring well gauging, VE effluent sampling. VE System off as part of pulsing procedure.
January 15:	Pulsing visit. VE System on as part of pulsing procedure.
January 20:	VE/GE system O&M, discharge sampling. VE System off as part of pulsing procedure.
January 29:	Pulsing visit. VE System on as part of pulsing procedure.
February 4:	VE/GE system operation and maintenance (O&M), GE system sampling, monitoring well gauging, VE effluent sampling. VE System off as part of pulsing procedure.
February 10:	Pulsing visit. VE System on as part of pulsing procedure
February 18:	VE/GE system O&M, discharge sampling. VE System off as part of pulsing procedure.
February 24:	Recovery well network is sampled. VE/GE System off for quarterly sampling.
February 25:	Sampling of the monitoring well and deep well networks. VE System on as part of pulsing procedure.
March 4:	VE/GE system operation and maintenance (O&M), GE system sampling, VE effluent sampling. VE System off as part of pulsing procedure.
March 12:	Pulsing visit. VE System on as part of pulsing procedure.
March 18:	VE/GE system O&M, discharge sampling. VE System off as part of pulsing procedure. On and off-Site potable well samples are taken.
March 27:	Pulsing visit. VE System on as part of pulsing procedure. Potable well sample obtained from 493 Mechanics Valley Road.

The groundwater samples were collected on February 24 and 25, 2015 and analyzed according to Environmental Protection Agency (EPA) protocols from the monitoring well, recovery well, deep bedrock well (all deep well intervals), and tank-pit well networks. Due to snow and ice from winter storms, RW-1, RW-9, and MW-12 could not be sampled on the scheduled sampling day. After warmer weather samples for RW-1 and RW-9 were obtained on March 4 and a sample was obtained from MW-12 on March 18. Groundwater samples were collected from the monitoring and tank-pit wells using the purge and sample technique. Recovery well samples were collected from dedicated sample ports located within the VE/GE System compound. Deep monitoring wells were sampled using hydrasleeve technology. The VE/GE system was shut down after the collection of the recovery well samples for 24 hours prior to collection of samples from the remainder of the Site wells. The VE/GE System remained shut down for the duration of monitoring well sampling activities. A groundwater gradient map depicting groundwater conditions on February 25, 2015 is included as Figure 5 in Attachment A. Table 1 in Attachment B provides current and historical groundwater elevation data. Due to the large amount of historical groundwater elevation data collected from the Site, only data since the system start-up are presented in Table 1.

During the quarter, drinking water samples were collected from the Royal Farms store (500 Mechanics Valley Road) and selected off-site potable wells. Drinking water samples were collected from 475, 487, 493, 505, 513 Mechanics Valley Road, and 10 Montgomery Drive. Granular activated carbon (GAC) filtration systems are located on the 500, 505, and 513 Mechanics Valley Road properties. Drinking water samples for 505 Mechanics Valley Road were collected from the point of use treatment system's influent (Sample ID: PW505-In), mid-points

(PW505-Mid1 and PW505-Mid2) and effluent (PW505-eff). The fourth quarter samples for this property were obtained on March 18. The filtration system at the 513 Mechanics Valley Road property was disconnected by the property owner and is not currently in use. According to the property owner, the building at 513 Mechanics Valley Road is supplied with water directly from a well located on the property. Potable water samples were obtained from a restroom sink in the building (Sample ID: PW-513). Onsite drinking water samples were collected from the treatment system located within the Royal Farms store. Samples were taken from treatment system influent (PW500-In), mid-points (PW500-Mid1 and PW500-Mid2) and effluent (PW500-Eff). A sample from 463 Mechanics Valley Road was unable to be obtained. The well at this location is normally sampled via a hose bib outside of the house; however the water supply to this hose bib has been shut-off. According to a neighbor, the couple most recently living at this residence are deceased and the house is currently unoccupied.

All drinking water samples were obtained after purging the systems for 10 minutes. A map depicting the locations of the onsite and offsite potable wells is included as Figure 3 in Attachment A.

The monitoring well, recovery well, tank-pit well, and deep-bedrock well samples were analyzed for volatile organic compounds (VOCs) including fuel oxygenates per EPA Method 8260, Total Petroleum Hydrocarbons (TPH) Gasoline Range Organics (GRO) and TPH Diesel Range Organics (DRO) per EPA Method 8015B. The on-site and off-site potable water well samples were analyzed for VOCs including fuel oxygenates per EPA Method 524.2.

Groundwater Sampling Results

Monitoring Wells - Laboratory analytical results for monitoring wells show all analytes were below detection limits (BDL) with the exception of MW-2, MW-5, MW-6, MW-8, MW-9, MW-10, MW-14, and MW-16. Table 2 in Attachment B summarizes current and historical groundwater monitoring well analytical results since the detection of the petroleum release (June 2011).

Laboratory analytical results for monitoring well MW-2 indicate a concentration of TPH DRO above MDE standards. All other analytes were BDL.

Laboratory analytical results for monitoring well MW-5 indicate a concentration of TPH DRO above MDE standards. All other analytes were BDL.

Laboratory analytical results for monitoring well MW-6 indicate a concentration of TPH DRO above MDE standards. All other analytes were BDL.

Laboratory analytical results for monitoring well MW-8 indicate a concentration of TPH DRO above MDE standards. All other analytes were BDL.

Laboratory analytical results for monitoring well MW-9 indicate a concentration of TPH DRO above MDE standards. Laboratory analytical results for this sample also show detectable levels of acetone and methyl tert-butyl ether (MTBE) below regulatory standards. All other analytes were BDL.

Laboratory analytical results for monitoring well MW-10 indicate a concentration of TPH DRO above MDE standards. All other analytes were BDL.

Laboratory analytical results for monitoring well MW-14 indicate a concentration of TPH DRO above MDE standards. All other analytes were BDL.

Laboratory analytical results for monitoring well MW-16 indicate a concentration of TPH DRO above MDE standards. All other analytes were BDL.

Recovery Wells – Laboratory analytical results indicate that the recovery wells were BDL for all analytes with the exception of RW-1, RW-3, RW-4, RW-6, RW-9, and RW-11. Table 2 in Attachment B summarizes current and historical groundwater recovery well analytical results.

Laboratory analytical results for recovery well RW-1 show concentrations of TPH GRO and TPH DRO above MDE standards. Laboratory analytical results for this sample also show detectable levels of benzene, ethylbenzene, toluene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, o-xylene, and m- & p- xylenes below regulatory standards. All other analytes were BDL.

Laboratory analytical results for recovery well RW-3 show a detectable level of benzene below MDE standards. All other analytes were BDL.

Laboratory analytical results for recovery well RW-4 indicate a concentration of TPH DRO above MDE standards. Laboratory analytical results for this sample also show a detectable level of acetone below regulatory standards. All other analytes were BDL.

Laboratory analytical results for recovery well RW-6 indicate a concentration of TPH DRO above MDE standards. Laboratory analytical results for this sample also show detectable levels of acetone, 2-butanone (MEK), and carbon disulfide below regulatory standards. All other analytes were BDL.

Laboratory analytical results for recovery well RW-9 show a detectable level of benzene below MDE standards. All other analytes were BDL.

Laboratory analytical results for recovery well RW-11 indicate benzene and TPH DRO concentrations above MDE standards. Laboratory analytical results for this sample also show detectable levels of tert-Amyl alcohol (TAA), carbon disulfide, diisopropyl ether (DIPE), and toluene below regulatory standards. All other analytes were BDL.

Bedrock Wells – No analytes were detected above MDE standards in the bedrock wells with the exception of tetrachloroethene (PCE) in the top zone of MW-10-D at a depth of 27 feet.

Laboratory analysis for all three depths (27 feet, 91.5 feet, and 187.5 feet) at MW-10-D indicated detectable levels of MTBE below MDE standards. Laboratory analytical results for the middle zone (91.5 feet) also showed a detectable level of PCE below regulatory standards. All other analytes were BDL.

Laboratory analysis from the bottom two zones of MW-12-D (97 feet and 147.5 feet) indicated detectable levels of MTBE below MDE standards. All other analytes including those tested in the top two zones of MW-12-D (43.5 feet and 72.5 feet) were BDL.

Laboratory analysis for the bottom zone of MW-13-D (137 feet) indicated a detectible concentration of MTBE below MDE standards. All other analytes for MW-13-D including the top zone (39 feet) were BDL. Table 2 in Attachment B summarizes current and historical bedrock well analytical results.

Tank Pit Wells –TPH DRO was above MDE standards for all of the tank pit wells. All other analytes were BDL. Table 2 in Attachment B summarizes current and historical tank pit well analytical results since the detection of the petroleum release (June 2011).

A groundwater quality map is presented as Figure 6 in Attachment A. Figure 7 in Attachment A depicts the dissolved benzene groundwater quality data. Figure 8 depicts the dissolved naphthalene groundwater quality data. Figure 9 depicts the TPH GRO data and Figure 10 depicts the TPH DRO data. Graphs 1 through 44 in Attachment C show Benzene, MTBE, Naphthalene, and total BTEX concentrations versus time for each of the monitoring and recovery wells. On-site laboratory analytical data is included in Attachment D.

Potable Wells - Analytical results for the on-site potable well water treatment system at 500 Mechanics Valley Road were BDL for all compounds in the effluent sample. Results for the off-site potable well samples from 487 Mechanics Valley Road and 10 Montgomery Drive were below detection limits for all analytes. The laboratory results for off-site potable well samples from 475 and 493 Mechanics Valley Road report MTBE concentrations below MDE standards. Results for the off-site potable well water treatment system at 505 Mechanics Valley Road were BDL for all compounds in the effluent sample. Analytical results for the off-site potable well at 513 Mechanics Valley Road were above the MDE Standard for MTBE. The GAC at the 513 Mechanics Valley Road property has been disabled by the property owner. Analytical results for the on-site potable well (sampled within the Royal Farms store) reported VOC concentrations BDL for all compounds in the effluent sample. Tables 3 and 4 in Attachment B summarize current and historical groundwater and potable well analytical results since the detection of the petroleum release (June 2011). Copies of notification letters which were sent to residents whose potable wells were selected for testing are presented in Attachment E. These letters include copies of the sampling results from their potable wells.

VE/GE System Performance Summary

System Operation

Period:	1-1-15 through 3-31-15
Operating Days VE:	43 out of 90 days
Operating Days GE:	89 out of 90 days
System Compliance:	MDE General Discharge Permit Number MDG919778 did not exceed discharge standards. ARMA permit number 015-9-0193 (stripper) did not exceed discharge standards. Compliance laboratory analytical results are provided in Attachment D.

Groundwater Recovery

Discharge in Period:	456,715 gallons
Average System Flow Rate:	3.6 gpm
Average Recovery Well Flow Rate:	0.32 gpm
LPH Recovery (Period/Cumulative):	0 / 0 gal.
System Dissolved Phase Recovery (Period/Cumulative):	0.00 / 2.1 gal.
Average Groundwater BTEX Concentration (influent/effluent)	0.0 µg/L / BDL
Average BTEX Treatment Efficiency	100%

Vapor Recovery

Discharge in Period:	8,729,280 cubic feet
Average Manifold Flow Rate:	196.6 CFM
Average Recovery Well Flow Rate:	17.87 CFM
Average Manifold Vacuum:	6.23 in. Mercury
Manifold Vapor Phase Recovery:	0.2 lb. per day
Average Recovery Well Vapor Phase Recovery:	0.02 lb. per day
Average Vapor VOC Concentration via photoionization detector (PID)	2.1 ppm

Hydrocarbon Recovery Estimates (Gallons)

Total Recovery (Period/Cumulative):	0.9 / 656.7 gallons

Conversion equations and factors used to calculate recovery estimates are included as footnotes on the recovery tables and work sheets in Attachment B.

During this monitoring period the GE portion of the treatment system was operational for 89 out of 90 days. The VE portion of the treatment system was operational for 43 out of 90 days due to the VE pulsing activities. Routine inspections of the remedial operations are performed in order to ensure proper operation and to evaluate system effectiveness. These routine inspections

occasionally require brief shutdowns (3 hours average). Weekly site visits are used to monitor, adjust, and optimize the system. The system was shut off for the duration of quarterly sampling activities which were conducted on February 25, 2015.

Since startup through March 31, 2015, approximately 7,265,936 gallons of liquid and approximately 223,761,745 cubic feet of air have been processed by the system, removing approximately 451.7 gallons of petroleum hydrocarbons. Including pre-startup recovery efforts, an estimated 656.7 gallons of hydrocarbons have been recovered during the life-cycle of this project. No LPH was recovered during this monitoring period. Tables 6 through 15 in Attachment B summarize hydrocarbon recovery estimate data. Table 14 in Attachment B provides a summary of groundwater and vapor phase recovery well operation. Diagnostic worksheets completed during site visits are presented in Attachment F. Graphs 45 through 50 in Attachment C show dissolved phase, vapor phase, and total hydrocarbon recovery in pounds and gallons since the start of VE/GE activities.

Specific Extraction Point Recovery Estimates

Tables 15 and 16 present VE and GE recovery estimates for each respective recovery well (specific extraction point) during this quarter. Tables 17 and 18 present VE and GE recovery estimates for each respective recovery well (specific extraction point) during throughout the operation of the VE/GE system. Specific extraction point recovery estimates are presented, but not thought to be representative of actual recovery for reasons explained in the following section. Specific extraction point recovery estimates can be used to assess general extraction trends between respective extraction points.

Specific Vapor Extraction Point Recovery Estimates

AEC used an SKC Vac-U-Tube (Model 231-945) to collect PID measurements (via Tedlar bag) from each recovery well manifold point. As the system operates at a fairly high vacuum, a representative sample was difficult to collect (i.e. the Vac-U-Tube had difficulty overcoming the manifold vacuum). PID readings and ranged from 0.0 in RW-3, RW-4, RW-8, RW-10, RW-12, and MW-7, to 7.0 parts per million in RW-11.

Specific Groundwater Extraction Point Recovery Estimates

BTEX values used for specific extraction point recovery estimates were collected from the recovery wells during the quarterly sampling event while the remediation system was operational and are presented in Table 15. The specific groundwater extraction point recovery estimates which are based on quarterly sampling data represent the concentration in each well only at the time of sampling. Overall recovery rates are based on results from composite system influent samples which are taken periodically throughout the quarter. The specific groundwater extraction point recovery estimates can be used to approximate relative dissolved phase recovery efficiency per extraction point.

Hydraulic Control and Vacuum Influence

Significant groundwater drawdown associated with groundwater extraction has been apparent across the site since system start-up. In addition, vacuum influence has been observed in all wells within 40 feet of the recovery well network with the exception of the tank-pit monitoring wells.

Vapor Extraction System Pulsing

AEC carried out a trial pulsing period Between April 9 and July 1 2014. A general trend was established where VOC recovery declined with continuous operation of the VE system. Conversely, VOC recovery was significantly greater after the period of downtime. Based on these

results, MDE authorized resuming the pulsing procedure. The VE System pulsing was resumed on August 20, 2014 and has continued through the first quarter of 2015.

PID readings were taken once each week. Following each week in which vapor extraction (VE) was performed, the reading was taken prior to shutdown of the VE system. Following each week of VE system downtime, the reading was taken after the VE system was allowed to operate for approximately one hour. Tabular and graphical results of the Pulsing during this quarter are presented with Table 19 in Attachment B.

Asymptotic Level Evaluation

In order to statistically evaluate the data for the purpose of determining the existence of a trend (i.e., dissolved phase concentrations are increasing, decreasing, or stable over time) the individual recovery well and select down-gradient monitoring well benzene concentration data were evaluated using the Mann-Kendall non-parametric statistical method. The Mann-Kendall procedure is applicable to evaluate the dissolved phase data since missing values are allowed and the data need not conform to any particular distribution. Also, the Mann-Kendall procedure can be used for data sets that include irregular sampling intervals, data below the detection limit, and trace or missing data. The method is used to test the null hypotheses of no trend against the alternative hypotheses of either a decreasing or increasing trend in a time-series data set. The outcome of the procedure depends on the ranking of individual data points and not the overall magnitude of the data points.

Based on this evaluation the following trends have been determined: RW-2, RW-3, RW-4, RW-6, RW-8, RW-11, RW-12, MW-8, and MW-9 show a decreasing trend; RW-1, RW-5, and RW-10 show a probably decreasing trend; RW-7, RW-9, RW-13, and MW-11 show no trend. Per Mann-Kendall-Kendall evaluation, no monitoring wells or recovery wells show an increasing trend. Mann-Kendall work sheets are included in Attachment G.

Based on asymptotic recovery trends and diminished concentrations of fuel constituents reported from quarterly sampling events, AEC is requesting shutdown of the dual phase extraction remediation system. Pursuant to the Revised Corrective Action Plan Addendum dated March 28, 2013, a Rebound Evaluation Work Plan has been submitted for review by MDE.

Figures, Tables, and Graphs

Figure 1 Site Vicinity Map
Figure 2 Site Features Map
Figure 3 Potable Well Location Map
Figure 4 Site Features Map with Utilities and VE/GE System Layout
Figure 5 Groundwater Gradient Map
Figure 6 Groundwater Quality Map
Figure 7 Groundwater Quality Map – Dissolved Benzene
Figure 8 Groundwater Quality Map – Dissolved Naphthalene
Figure 9 Groundwater Quality Map – TPH GRO
Figure 10 Groundwater Quality Map – TPH DRO

Table 1 Well Gauging Summary
Table 2 Historical Groundwater Analytical Results
Table 3 Onsite Potable Well Treatment System Analytical Results
Table 4 Offsite Potable Well Analytical Results
Table 5: Monitored Natural Attenuation Results
Table 6 VE/GE System Groundwater Extraction Estimates
Table 7 Vapor Extraction Estimates
Table 8 Cumulative Hydrocarbon Recovery Estimates
Table 9 VE/GE System Recovery Estimates – Worksheet 1
Table 10 VE/GE System Recovery Estimates – Worksheet 2
Table 11 VE/GE System Recovery Estimates – Worksheet 3
Table 12 VE Airflow Field Readings Worksheet
Table 13 GE Influent Concentration Worksheet
Table 14 Groundwater and Vapor Phase recovery Operation Summary
Table 15 VE Specific Extraction Point Worksheet (Period)
Table 16 GE Specific Extraction Point Worksheet (Period)
Table 17 VE Specific Extraction Point Worksheet (Time series)
Table 18 GE Specific Extraction Point Worksheet (Time series)
Table 19 VE System Pulsing

Graphs 1-44 Benzene, MTBE, Naphthalene, and Total BTEX Concentrations vs. Time for All Monitoring and Recovery Wells
Graph 45 Dissolved Phase Hydrocarbon Recovery (gallons) vs. Time
Graph 46 Vapor Phase Hydrocarbon Recovery (gallons) vs. Time
Graph 47 Total Hydrocarbon Recovery (gallons) vs. Time
Graph 48 Dissolved Phase Hydrocarbon Recovery (pounds) Vs. Time
Graph 49 Vapor Phase Hydrocarbon Recovery (pounds) Vs. Time
Graph 50 Total Hydrocarbon Recovery (pounds) vs. Time
Graphs 51-61 VE Specific Extraction Point Recovery vs. Time
Graphs 62-72 GE Specific Extraction Point Recovery vs. Time

Attachments

Attachment A Figures
Attachment B Tables
Attachment C Graphs
Attachment D Onsite Laboratory Analytical Results
Attachment E Offsite Laboratory Analytical Results and Notification Letters
Attachment F System Visit Work Sheets
Attachment G Mann-Kendall Work Sheets

Attachment A

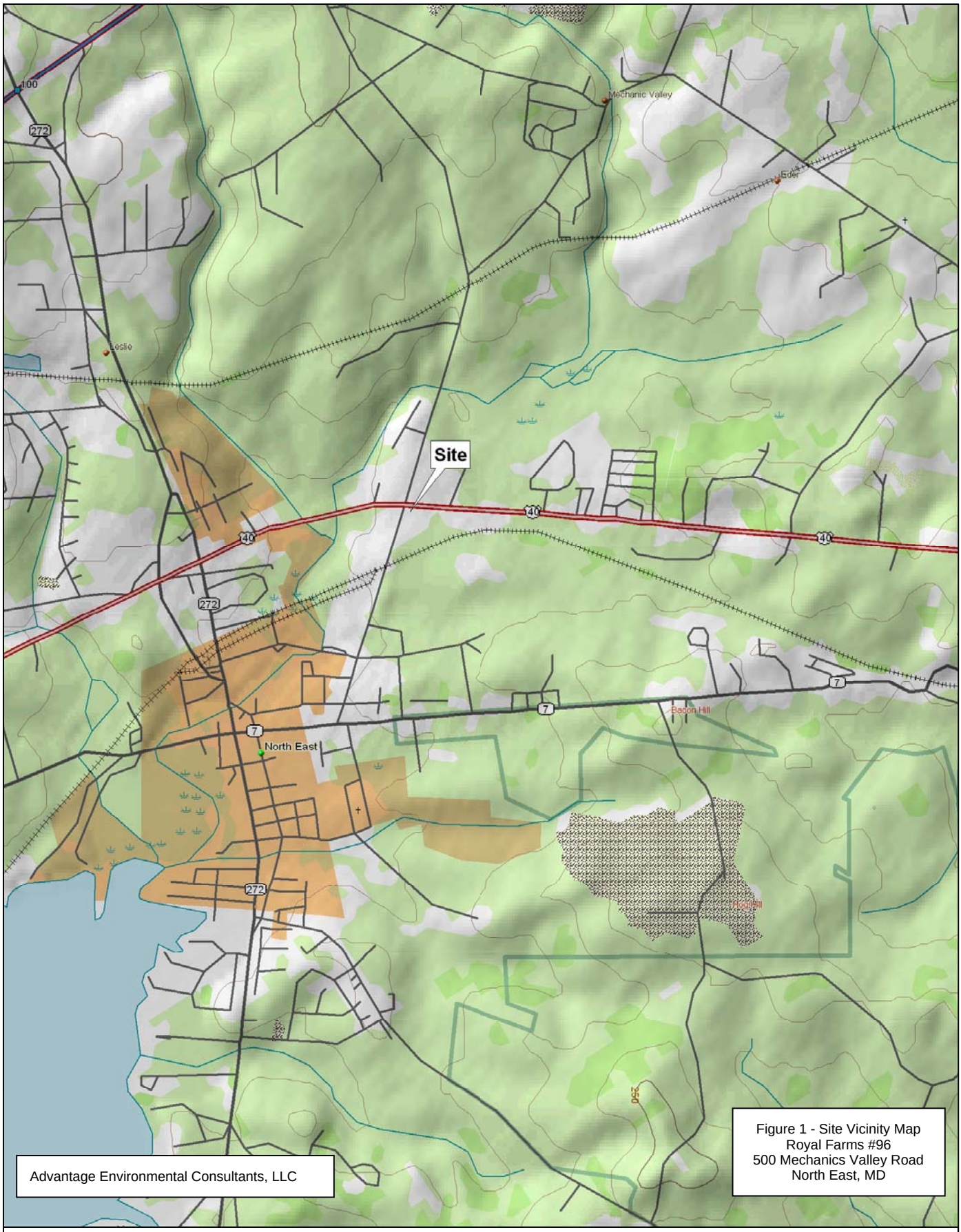


Figure 1 - Site Vicinity Map
Royal Farms #96
500 Mechanics Valley Road
North East, MD

Advantage Environmental Consultants, LLC

DELORME

© 2001 DeLorme. Topo USA® 3.0

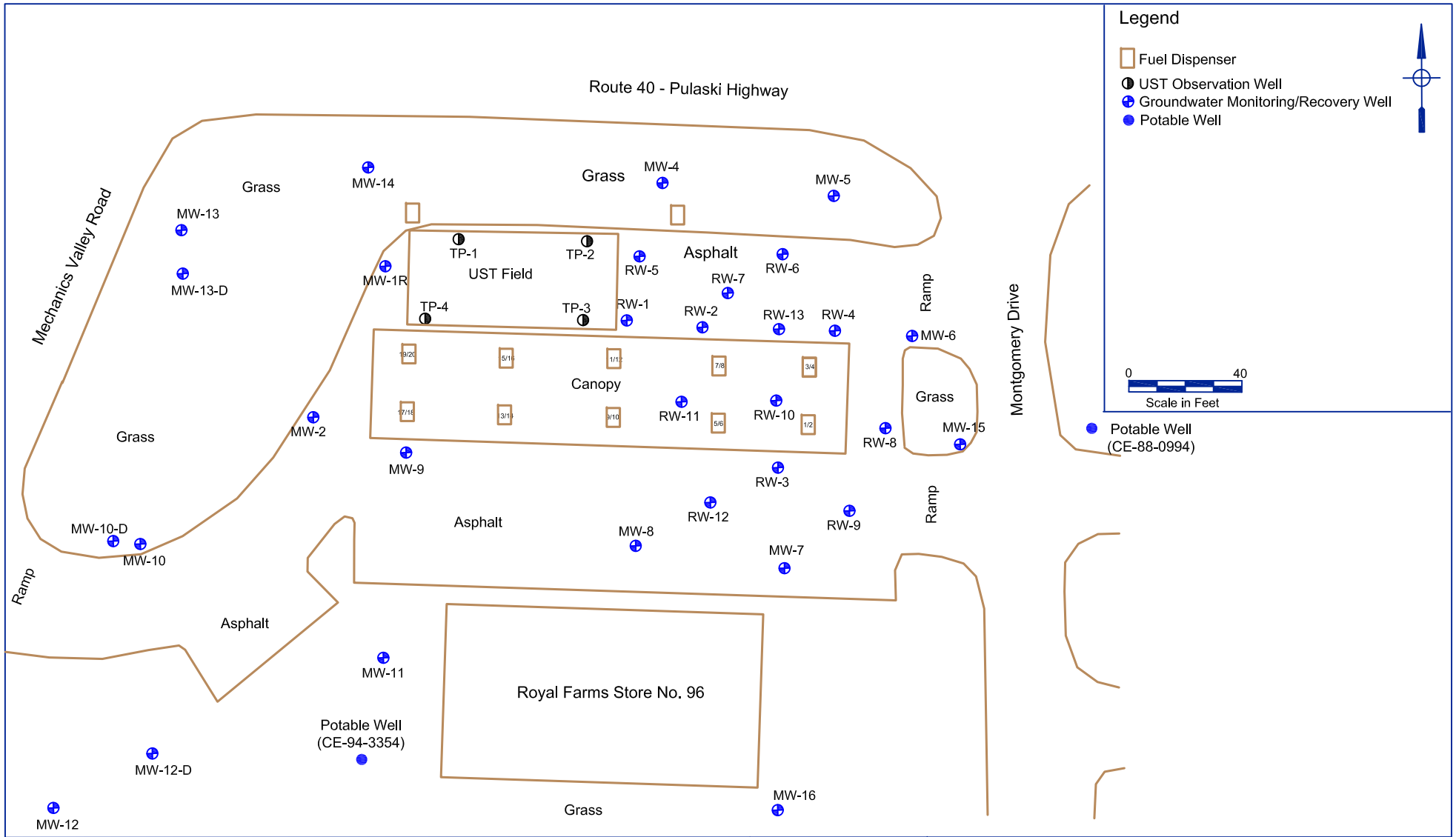
Zoom Level: 12-7 Datum: WGS84

Scale 1 : 28,125

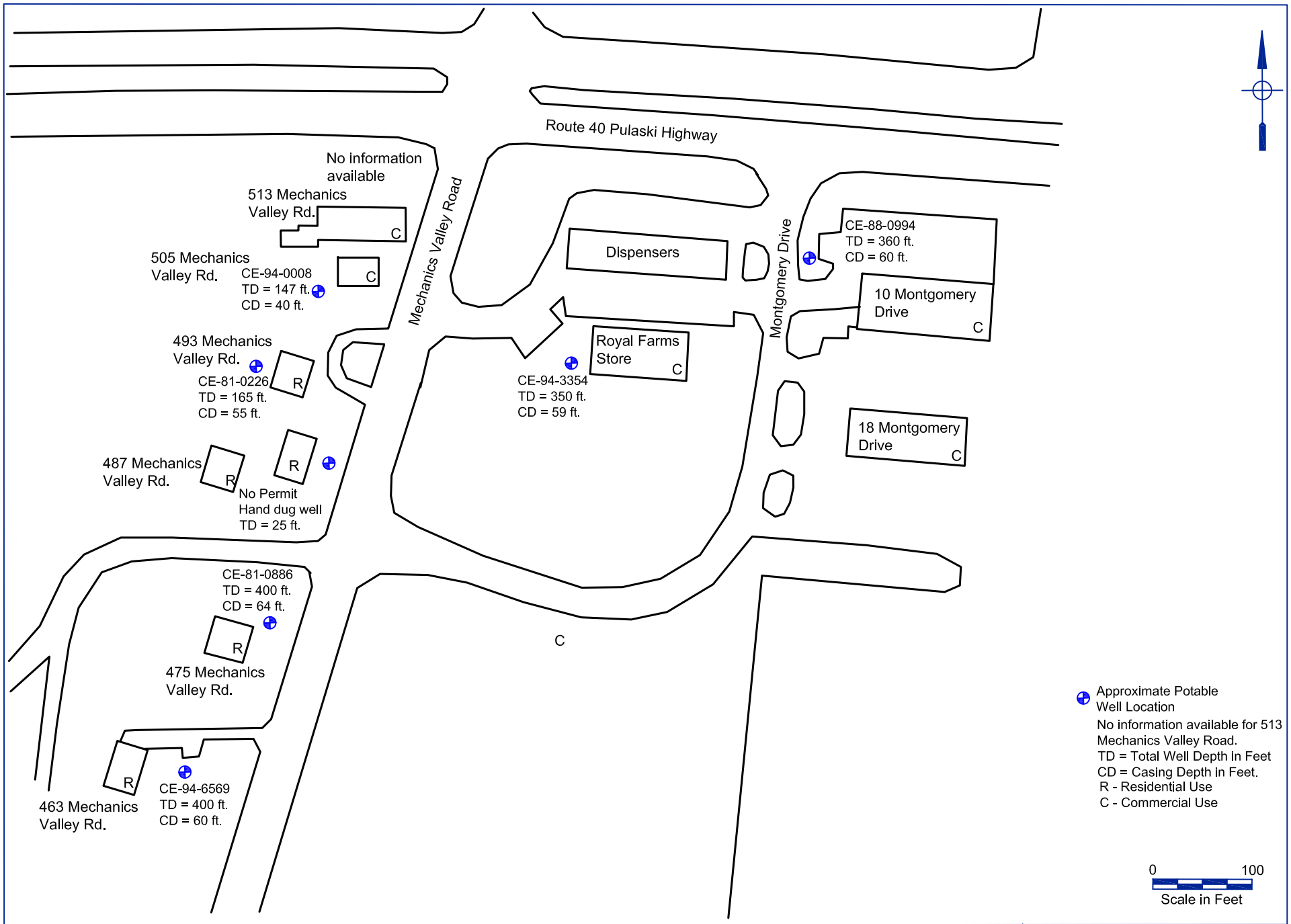
1" = 2,343.75 ft

0 ¼ ½ ¾ 1 mi
0 ½ 1 1½ 2 km

TN
MN
11.7°W



Advantage Environmental Consultants, LLC 8610 Washington Blvd. Suite 217 Jessup, MD 20794 Phone 301-776-0500 Fax 301-776-1123	Project No.: 05-056	Drawn by: JDW	Figure 2 - Site Features Map Royal Farms No. 96 500 Mechanics Valley Road North East, MD
	Task No.: RF96	Date: 6-20-2013	
	File: Site Features	Revision No.: 2	



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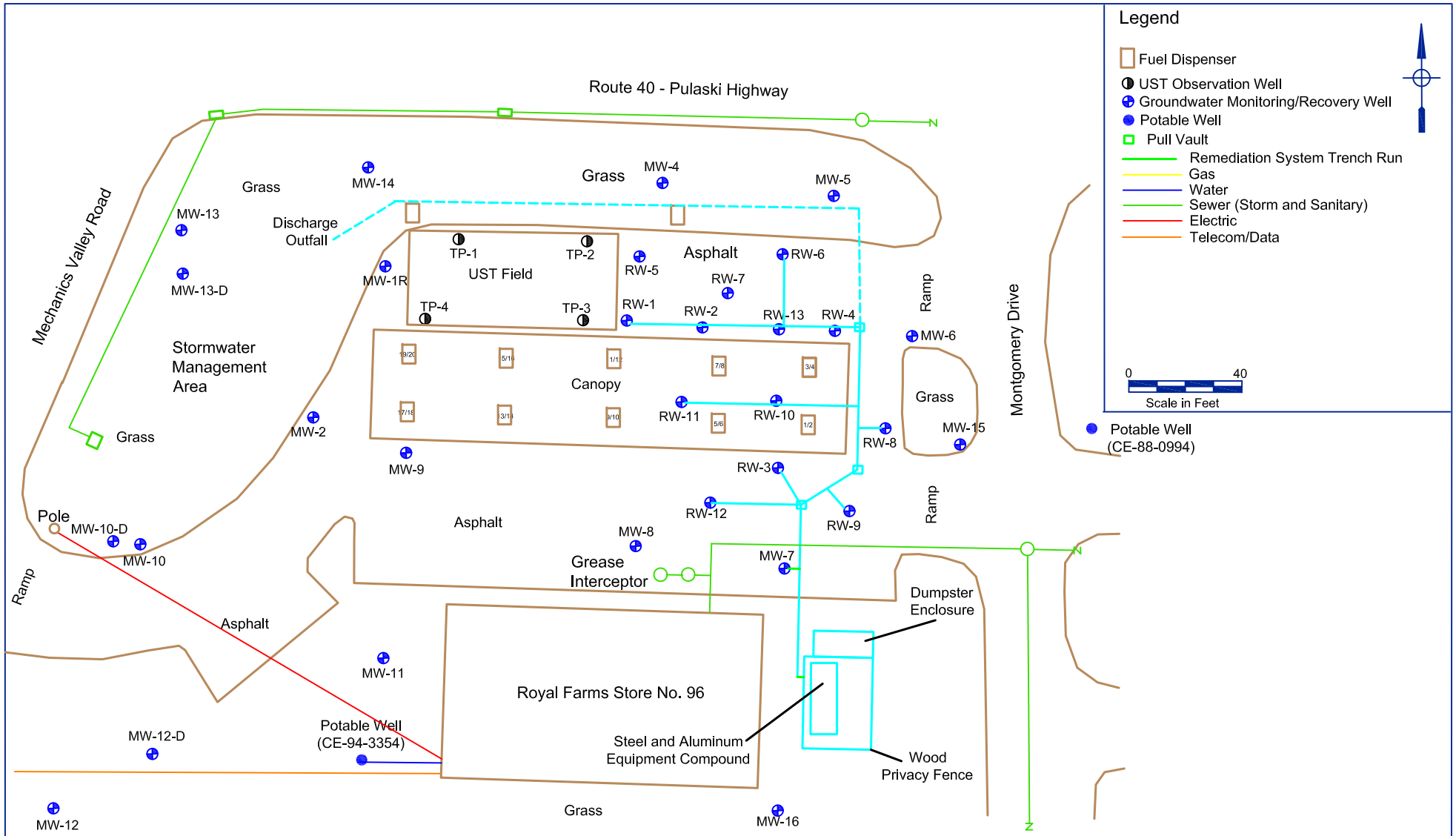
Project No.: 05-056	Drawn by: JSS
Task No.: RF96	Date: 6-20-2013
File: Site Area	Revision No.: 2

Figure 3 - Potable Well Location Map
Royal Farms No. 96
500 Mechanics Valley Road
North East, MD



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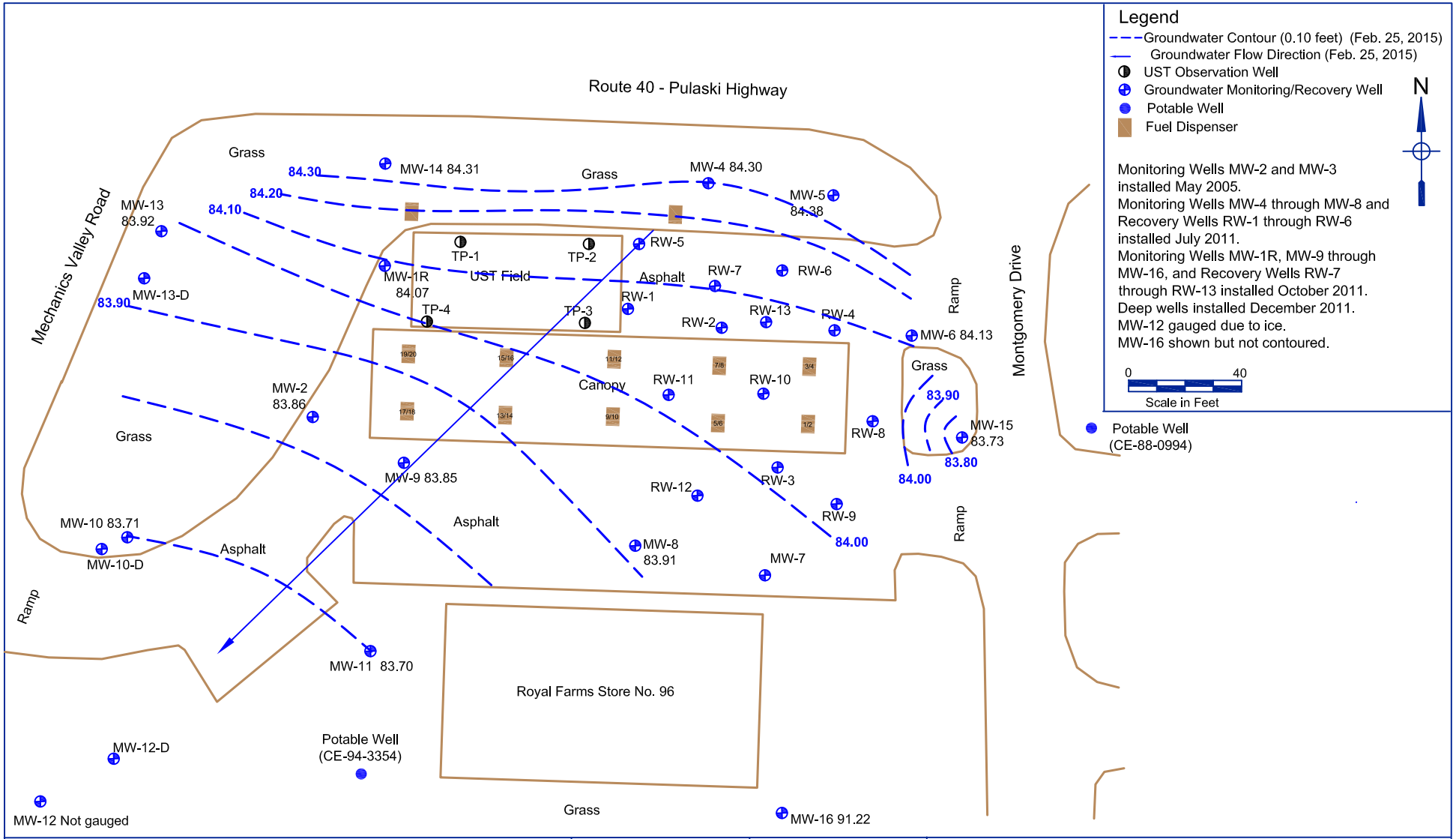
Project No.: 05-056	Drawn by: JDW
Task No.: RF96	Date: 6-20-2013
File: Site Features	Revision No.: 2

Figure 4 - Site Features Map with Utilities and Trench Layouts
Royal Farms No. 96
500 Mechanics Valley Road
North East, MD



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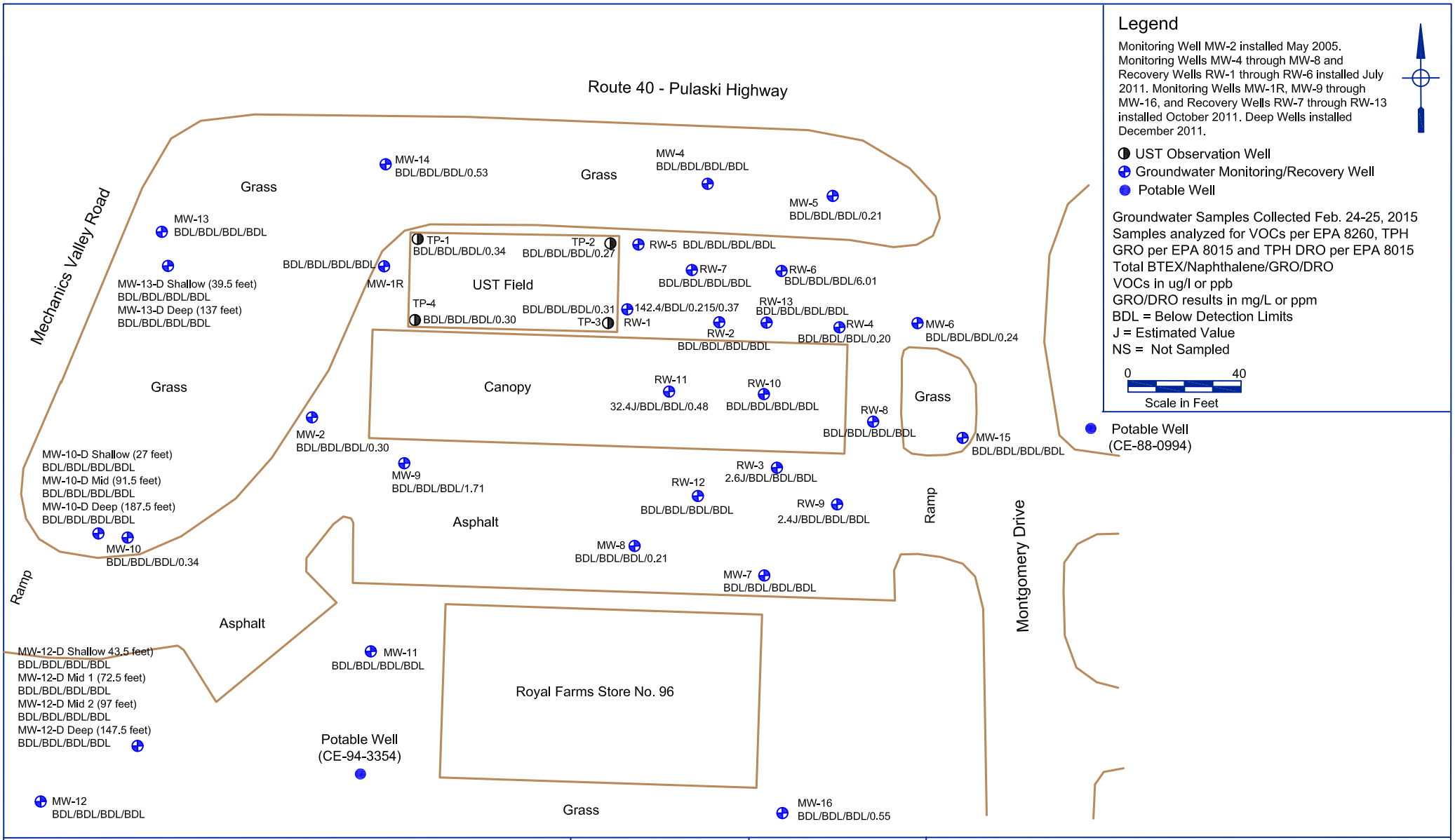
Task No.: RF96	Date: April 2015
File: Site Features	Revision No.: 5

Figure 5 - Groundwater Gradient Map
Royal Farms No. 96
500 Mechanics Valley Road
North East, MD



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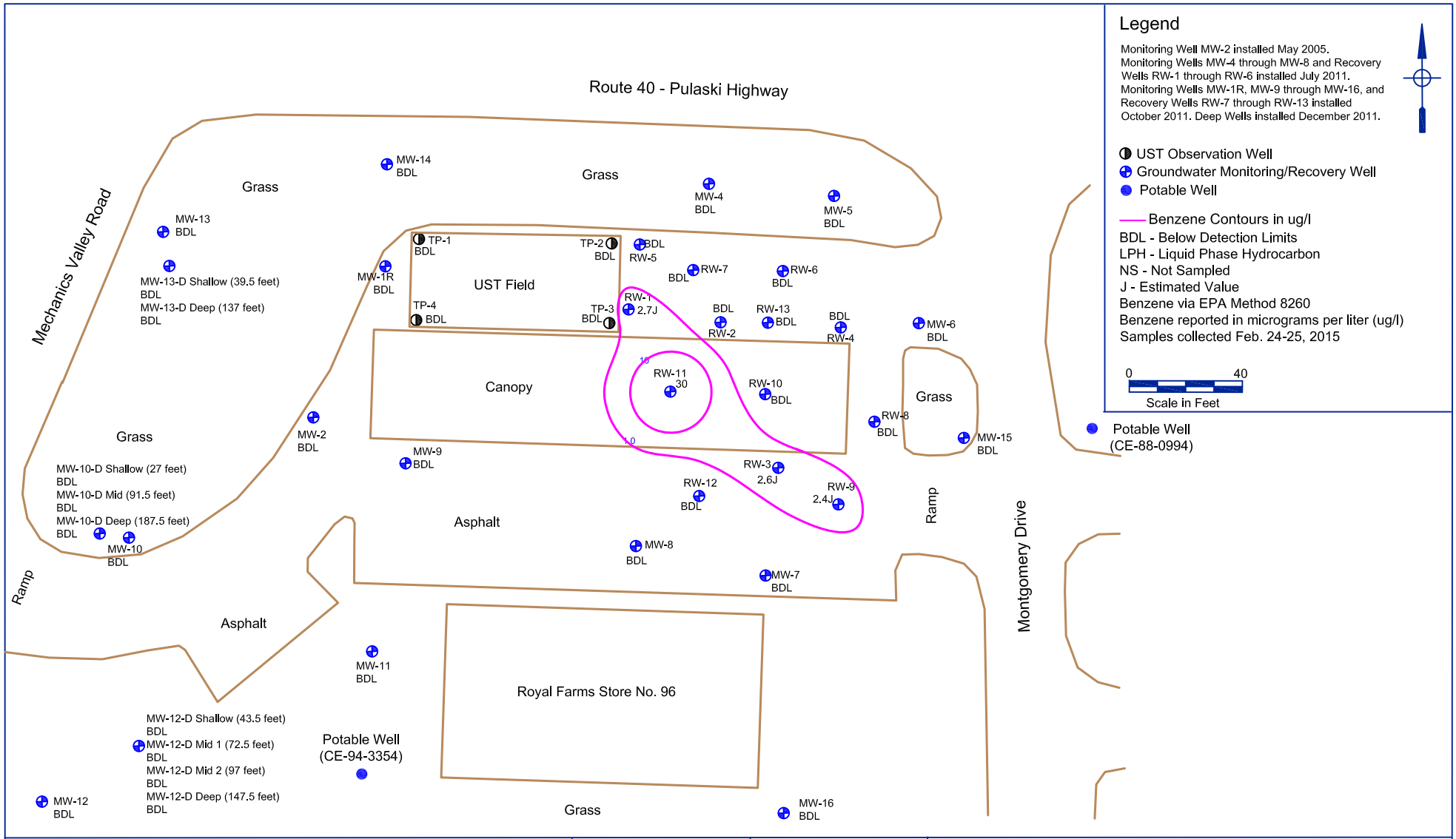
Task No.: RF96	Date: April 2015
File: Site Features	Revision No.: 4

Figure 6 - Groundwater Quality Map
Royal Farms No. 96
500 Mechanics Valley Road
North East, MD



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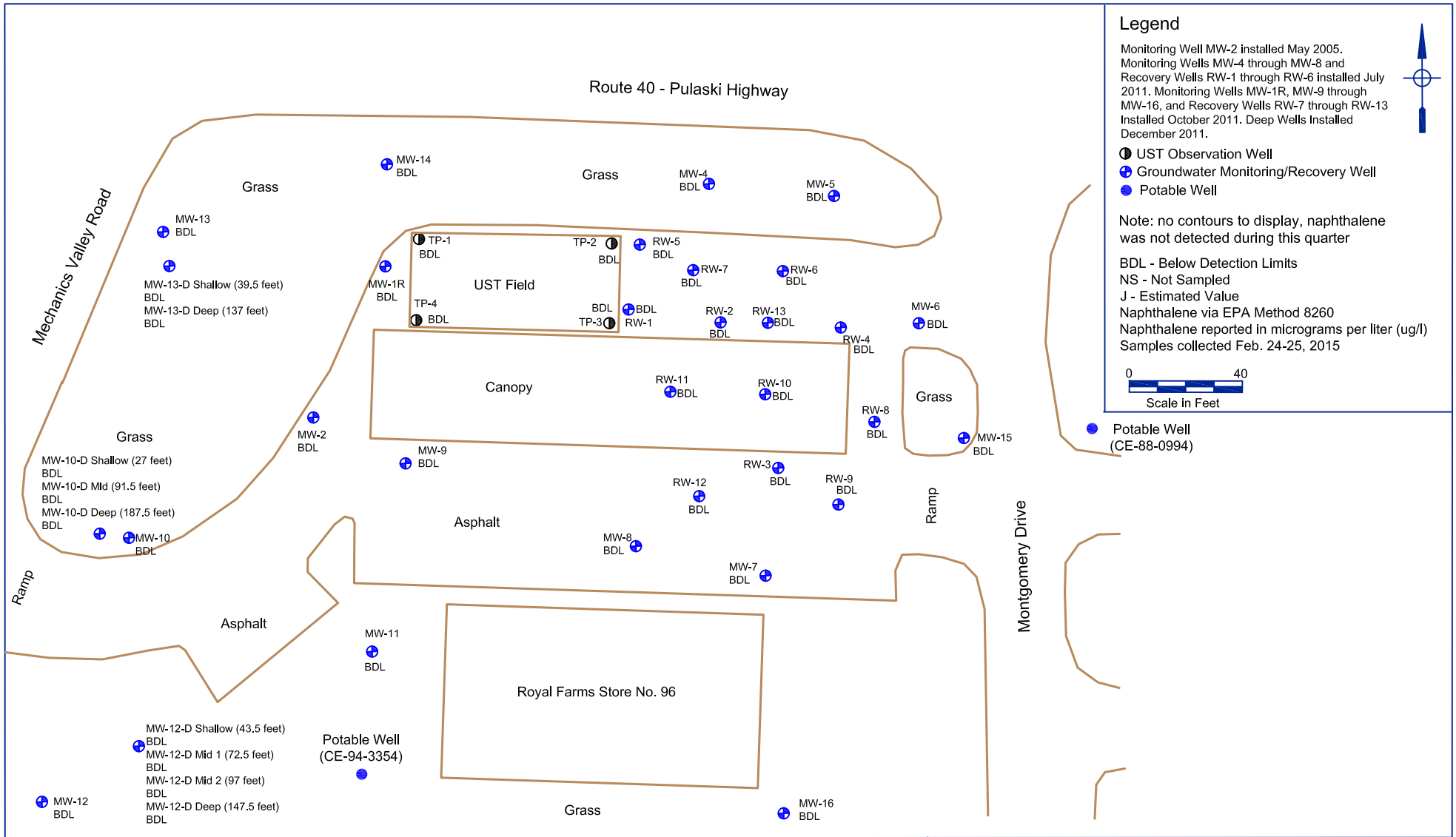
Project No.: 05-056	Drawn by: JDW
Task No.: RF96	Date: April 2015
File: Site Features	Revision No.: 4

Figure 7 - Groundwater Quality Map - Dissolved Benzene
Royal Farms No. 96
500 Mechanics Valley Road
North East, MD



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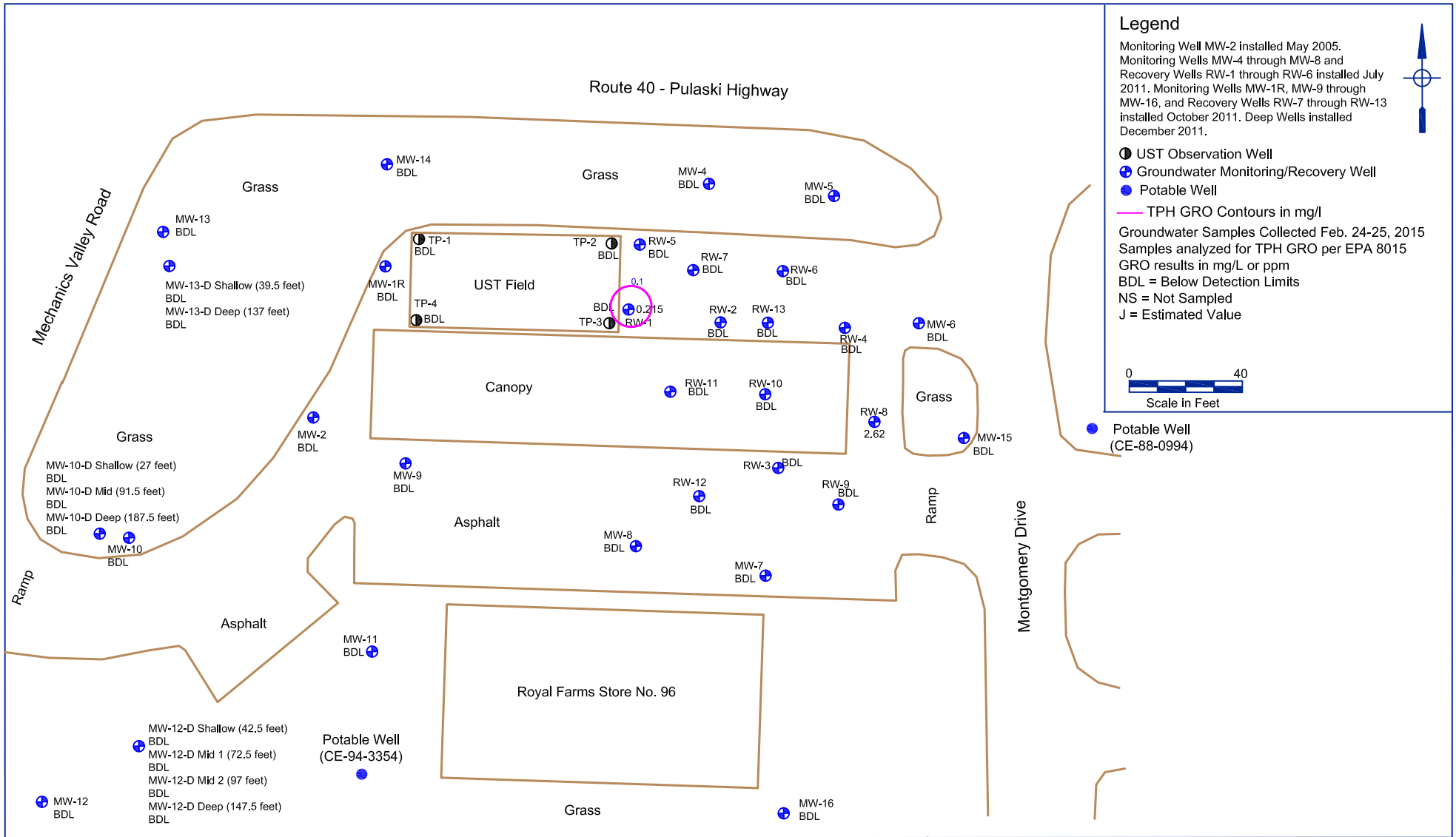
Task No.: RF96	Date: April 2014
File: Site Features	Revision No.: 4

Figure 8 - Groundwater Quality Map - Dissolved Naphthalene
Royal Farms No. 96
500 Mechanics Valley Road
North East, MD



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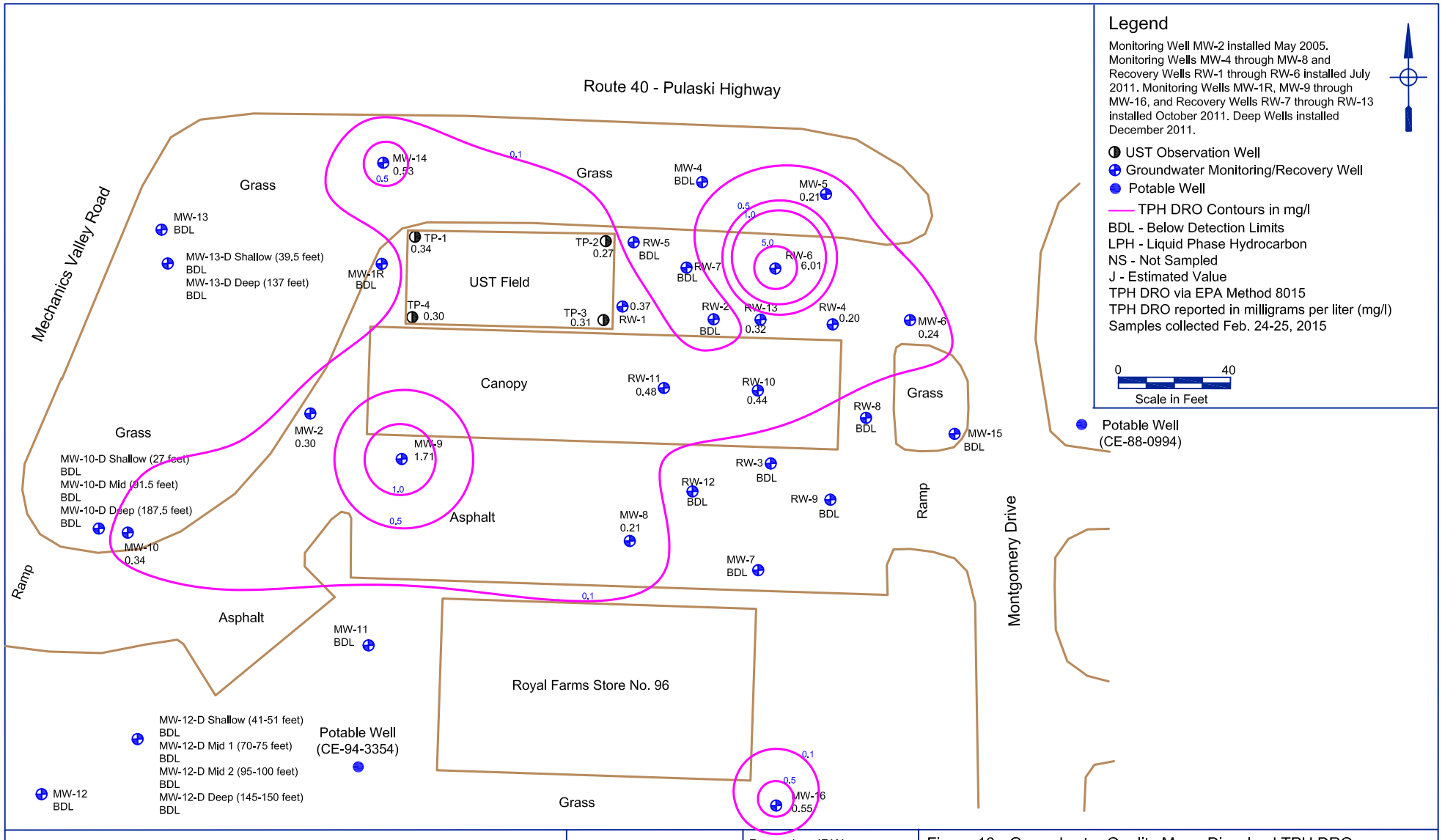
Task No.: RF96	Date: April 2015
File: Site Features	Revision No.: 4

Figure 9 - Groundwater Quality Map - Dissolved GRO
Royal Farms No. 96
500 Mechanics Valley Road
North East, MD



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Project No.: 05-056	Drawn by: JDW
Task No.: RF96	Date: April 2015
File: Site Features	Revision No.: 3

Figure 10 - Groundwater Quality Map - Dissolved TPH DRO
Royal Farms No. 96
500 Mechanics Valley Road
North East, MD

Attachment B

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
MW-1R	12/10/2012	11.08	ND	94.74	83.66	NA	NA	NA		NA
	12/11/2012	12.20	ND	94.74	82.54	NA	NA	NA		0.2
	12/20/2012	13.77	ND	94.74	80.97	NA	NA	NA		0.1
	12/24/2012	13.00	ND	94.74	81.74	NA	NA	NA		0.1
	1/4/2013	14.00	ND	94.74	80.74	NA	NA	NA		0.1
	1/8/2013	14.20	ND	94.74	80.54	NA	NA	NA		0.1
	1/15/2013	13.32	ND	94.74	81.42	NA	NA	NA		0.6
	1/25/2013	11.89	ND	94.74	82.85	NA	NA	NA		
	1/29/2013	11.68	ND	94.74	83.06	NA	NA	NA		
	2/7/2013	12.59	ND	94.74	82.15	NA	NA	NA		
	2/14/2013	12.64	ND	94.74	82.10	NA	NA	NA		
	2/21/2013	12.08	ND	94.74	82.66	NA	NA	NA		
	2/27/2013	12.99	ND	94.74	81.75	NA	NA	NA		
	3/7/2013	13.30	ND	94.74	81.44	NA	NA	NA		
	4/18/2013	13.11	ND	94.74	81.63	NA	NA	NA		
	5/30/2013	12.41	ND	94.74	82.33	NA	NA	NA		
	5/31/2013	12.47	ND	94.74	82.27	NA	NA	NA		
	6/14/2013	10.96	ND	94.74	83.78	NA	NA	NA		
	7/23/2013	10.09	ND	94.74	84.65	NA	NA	NA		
	8/2/2013	9.82	ND	94.74	84.92	NA	NA	NA		
	8/13/2013	10.09	ND	94.74	84.65	NA	NA	NA		
	9/3/2013	9.47	ND	94.74	85.27	NA	NA	NA	System off: water level study	
	9/10/2013	9.65	ND	94.74	85.09	NA	NA	NA	System off: water level study	
	9/16/2013	11.27	ND	94.74	83.47	NA	NA	NA		
	10/24/2013	11.22	ND	94.74	83.52	NA	NA	NA		
	11/6/2013	11.74	ND	94.74	83.00	NA	NA	NA		
	11/7/2013	11.13	ND	94.74	83.61	NA	NA	NA	System off for sampling	
	12/4/2013	12.22	ND	94.74	82.52	NA	NA	NA		
	1/13/2014	11.88	ND	94.74	82.86	NA	NA	NA		
	2/10/2014	11.11	ND	94.74	83.63	NA	NA	NA		
	2/11/2014	10.79	ND	94.74	83.95	NA	NA	NA		
	3/13/2014	10.34	ND	94.74	84.40	NA	NA	NA		
	4/9/2014	10.22	ND	94.74	84.52	NA	NA	NA		
	5/22/2014	9.48	ND	94.74	85.26	NA	NA	NA		
	6/4/2014	10.93	ND	94.74	83.81	NA	NA	NA		
	7/1/2014	11.15	ND	94.74	83.59	NA	NA	NA		
	8/14/2014	11.89	ND	94.74	82.85	NA	NA	NA		
	8/15/2014	11.11	ND	94.74	83.63	NA	NA	NA		
	9/10/2014	11.77	ND	94.74	82.97	NA	NA	NA		
	10/8/2014	11.66	ND	94.74	83.08	NA	NA	NA		
	11/5/2014	11.55	ND	94.74	83.19	NA	NA	NA		
	11/6/2014	11.27	ND	94.74	83.47	NA	NA	NA	System off for sampling	
	12/4/2014	12.16	ND	94.74	82.58	NA	NA	NA		
	1/7/2015	11.78	ND	94.74	82.96	NA	NA	NA		0.22
	2/25/2015	10.67	ND	94.74	84.07	NA	NA	NA		
MW-2	12/10/2012	12.46	ND	95.86	83.40	NA	NA	NA		NA
	12/11/2012	13.92	ND	95.86	81.94	NA	NA	NA		0.1
	12/20/2012	15.28	ND	95.86	80.58	NA	NA	NA		0.0
	12/24/2012	14.49	ND	95.86	81.37	NA	NA	NA		0.0
	1/4/2013	15.40	ND	95.86	80.46	NA	NA	NA		0.0

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	1/8/2013	15.70	ND	95.86	80.16	NA	NA	NA		0.0
	1/15/2013	14.73	ND	95.86	81.13	NA	NA	NA		0.1
	1/25/2013	13.12	ND	95.86	82.74	NA	NA	NA		
	1/29/2013	12.95	ND	95.86	82.91	NA	NA	NA		
	2/7/2013	14.03	ND	95.86	81.83	NA	NA	NA		
	2/14/2013	14.16	ND	95.86	81.70	NA	NA	NA		
	2/21/2013	13.27	ND	95.86	82.59	NA	NA	NA		
	2/27/2013	14.62	ND	95.86	81.24	NA	NA	NA		
	3/7/2013	14.89	ND	95.86	80.97	NA	NA	NA		
	4/18/2013	14.57	ND	95.86	81.29	NA	NA	NA		
	5/30/2013	13.65	ND	95.86	82.21	NA	NA	NA		
	5/31/2013	13.92	ND	95.86	81.94	NA	NA	NA		
	6/14/2013	11.90	ND	95.86	83.96	NA	NA	NA		
	7/23/2013	11.26	ND	95.86	84.60	NA	NA	NA		
	8/2/2013	11.05	ND	95.86	84.81	NA	NA	NA		
	8/13/2013	11.53	ND	95.86	84.33	NA	NA	NA		
	9/3/2013	10.79	ND	95.86	85.07	NA	NA	NA	System off: water level study	
	9/10/2013	11.00	ND	95.86	84.86	NA	NA	NA	System off: water level study	
	9/16/2013	12.58	ND	95.86	83.28	NA	NA	NA		
	10/24/2013	12.59	ND	95.86	83.27	NA	NA	NA		
	11/6/2013	13.31	ND	95.86	82.55	NA	NA	NA		
	11/7/2013	12.54	ND	95.86	83.32	NA	NA	NA	System off for sampling	
	12/4/2013	13.63	ND	95.86	82.23	NA	NA	NA		
	1/13/2014	13.40	ND	95.86	82.46	NA	NA	NA		
	2/10/2014	12.40	ND	95.86	83.46	NA	NA	NA		
	2/11/2014	11.97	ND	95.86	83.89	NA	NA	NA		
	3/13/2014	11.94	ND	95.86	83.92	NA	NA	NA		
	4/9/2014	11.67	ND	95.86	84.19	NA	NA	NA		
	5/22/2014	10.68	ND	95.86	85.18	NA	NA	NA		
	6/4/2014	12.47	ND	95.86	83.39	NA	NA	NA		
	7/1/2014	12.70	ND	95.86	83.16	NA	NA	NA		
	8/14/2014	13.40	ND	95.86	82.46	NA	NA	NA		
	8/15/2014	12.40	ND	95.86	83.46	NA	NA	NA		
	9/10/2014	13.30	ND	95.86	82.56	NA	NA	NA		
	10/8/2014	13.28	ND	95.86	82.58	NA	NA	NA		
	11/5/2014	12.97	ND	95.86	82.89	NA	NA	NA		
	11/6/2014	12.67	ND	95.86	83.19	NA	NA	NA	System off for sampling	
	12/4/2014	13.63	ND	95.86	82.23	NA	NA	NA		
	1/7/2015	13.26	ND	95.86	82.60	NA	NA	NA		
	2/25/2015	12.00	ND	95.86	83.86	NA	NA	NA		
MW-4	12/10/2012	12.95	ND	96.87	83.92	NA	NA	NA		NA
	12/11/2012	14.46	ND	96.87	82.41	NA	NA	NA		1.0
	12/20/2012	17.45	ND	96.87	79.42	NA	NA	NA		2.9
	12/24/2012	14.72	ND	96.87	82.15	NA	NA	NA		1.5
	1/4/2013	16.19	ND	96.87	80.68	NA	NA	NA		2.9
	1/8/2013	16.32	ND	96.87	80.55	NA	NA	NA		2.5
	1/15/2013	15.50	ND	96.87	81.37	NA	NA	NA		> 5.0
	1/25/2013	13.77	ND	96.87	83.10	NA	NA	NA		
	1/29/2013	13.58	ND	96.87	83.29	NA	NA	NA		
	2/7/2013	14.71	ND	96.87	82.16	NA	NA	NA		1.6

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	2/14/2013	14.89	ND	96.87	81.98	NA	NA	NA		4.5
	2/21/2013	14.12	ND	96.87	82.75	NA	NA	NA		
	2/27/2013	15.29	ND	96.87	81.58	NA	NA	NA		4.4
	3/7/2013	15.75	ND	96.87	81.12	NA	NA	NA		5.5
	4/18/2013	15.31	ND	96.87	81.56	NA	NA	NA		4.2
	5/29/2013	14.51	ND	96.87	82.36	NA	NA	NA		
	5/31/2013	14.57	ND	96.87	82.30	NA	NA	NA		2.6
	6/14/2013	13.07	ND	96.87	83.80	NA	NA	NA		0.8
	7/23/2013	11.97	ND	96.87	84.90	NA	NA	NA		
	8/2/2013	11.90	ND	96.87	84.97	NA	NA	NA		
	8/13/2013	12.40	ND	96.87	84.47	NA	NA	NA		
	9/3/2013	11.42	ND	96.87	85.45	NA	NA	NA	System off: water level study	
	9/10/2013	11.56	ND	96.87	85.31	NA	NA	NA	System off: water level study	
	9/16/2013	13.35	ND	96.87	83.52	NA	NA	NA		
	10/24/2013	13.19	ND	96.87	83.68	NA	NA	NA		
	11/6/2013	13.73	ND	96.87	83.14	NA	NA	NA		1.0
	11/7/2013	12.98	ND	96.87	83.89	NA	NA	NA	System off for sampling	
	12/4/2013	14.28	ND	96.87	82.59	NA	NA	NA		
	1/13/2014	14.06	ND	96.87	82.81	NA	NA	NA		1.8
	2/10/2014	13.08	ND	96.87	83.79	NA	NA	NA		0.6
	2/11/2014	12.75	ND	96.87	84.12	NA	NA	NA		
	3/13/2014	12.44	ND	96.87	84.43	NA	NA	NA		0.5
	4/9/2014	12.30	ND	96.87	84.57	NA	NA	NA		0.2
	5/22/2014	11.41	ND	96.87	85.46	NA	NA	NA		
	6/4/2014	13.07	ND	96.87	83.80	NA	NA	NA		0.1
	7/1/2014	13.20	ND	96.87	83.67	NA	NA	NA		1.8
	8/14/2014	14.95	ND	96.87	81.92	NA	NA	NA		0
	8/15/2014	13.09	ND	96.87	83.78	NA	NA	NA		
	9/10/2014	13.77	ND	96.87	83.10	NA	NA	NA		0.36
	10/8/2014	13.62	ND	96.87	83.25	NA	NA	NA		0.28
	11/5/2014	13.46	ND	96.87	83.41	NA	NA	NA		0.44
	11/6/2014	13.14	ND	96.87	83.73	NA	NA	NA	System off for sampling	
	12/4/2014	14.21	ND	96.87	82.66	NA	NA	NA		1.00
	1/7/2015	13.45	ND	96.87	83.42	NA	NA	NA		0.60
	2/25/2015	12.57	ND	96.87	84.30	NA	NA	NA		
MW-5	12/10/2012	14.42	ND	98.39	83.97	NA	NA	NA		NA
	12/11/2012	15.93	ND	98.39	82.46	NA	NA	NA		0.4
	12/20/2012	15.93	ND	98.39	82.46	NA	NA	NA		4.7
	12/24/2012	16.37	ND	98.39	82.02	NA	NA	NA		0.8
	1/4/2013	17.59	ND	98.39	80.80	NA	NA	NA		2.0
	1/8/2013	17.74	ND	98.39	80.65	NA	NA	NA		1.6
	1/15/2013	17.22	ND	98.39	81.17	NA	NA	NA		> 5.0
	1/25/2013	15.20	ND	98.39	83.19	NA	NA	NA		
	1/29/2013	15.03	ND	98.39	83.36	NA	NA	NA		
	2/7/2013	16.19	ND	98.39	82.20	NA	NA	NA		0.8
	2/14/2013	16.32	ND	98.39	82.07	NA	NA	NA		2.9
	2/21/2013	15.53	ND	98.39	82.86	NA	NA	NA		
	2/27/2013	16.82	ND	98.39	81.57	NA	NA	NA		2.9
	3/7/2013	17.32	ND	98.39	81.07	NA	NA	NA		4.9
	4/18/2013	16.78	ND	98.39	81.61	NA	NA	NA		2.6

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	5/29/2013	15.89	ND	98.39	82.50	NA	NA	NA		
	5/31/2013	15.98	ND	98.39	82.41	NA	NA	NA		1.8
	6/14/2013	14.51	ND	98.39	83.88	NA	NA	NA		0.5
	7/23/2013	13.39	ND	98.39	85.00	NA	NA	NA		
	8/2/2013	13.25	ND	98.39	85.14	NA	NA	NA		
	8/13/2013	13.82	ND	98.39	84.57	NA	NA	NA		
	9/3/2013	12.88	ND	98.39	85.51	NA	NA	NA	System off: water level study	
	9/10/2013	13.01	ND	98.39	85.38	NA	NA	NA	System off: water level study	
	9/16/2013	14.80	ND	98.39	83.59	NA	NA	NA		
	10/24/2013	14.64	ND	98.39	83.75	NA	NA	NA		
	11/6/2013	15.21	ND	98.39	83.18	NA	NA	NA		1.5
	11/7/2013	14.40	ND	98.39	83.99	NA	NA	NA	System off for sampling	
	12/4/2013	15.73	ND	98.39	82.66	NA	NA	NA		
	1/13/2014	15.59	ND	98.39	82.80	NA	NA	NA		0.8
	2/10/2014	14.56	ND	98.39	83.83	NA	NA	NA		0.0
	2/11/2014	14.22	ND	98.39	84.17	NA	NA	NA		
	3/13/2014	13.92	ND	98.39	84.47	NA	NA	NA		0.0
	4/9/2014	13.86	ND	98.39	84.53	NA	NA	NA		0.0
	5/22/2014	12.92	ND	98.39	85.47	NA	NA	NA		
	6/4/2014	14.63	ND	98.39	83.76	NA	NA	NA		0.02
	7/1/2014	14.75	ND	98.39	83.64	NA	NA	NA		1.8
	8/14/2014	14.95	ND	98.39	83.44	NA	NA	NA		0
	8/15/2014	14.55	ND	98.39	83.84	NA	NA	NA		
	9/10/2014	15.25	ND	98.39	83.14	NA	NA	NA		0.1
	10/8/2014	15.15	ND	98.39	83.24	NA	NA	NA		0.10
	11/5/2014	14.96	ND	98.39	83.43	NA	NA	NA		0.10
	11/6/2014	14.60	ND	98.39	83.79	NA	NA	NA	System off for sampling	
	12/4/2014	15.68	ND	98.39	82.71	NA	NA	NA		0.54
	1/7/2015	15.27	ND	98.39	83.12	NA	NA	NA		0.2
	2/25/2015	14.01	ND	98.39	84.38	NA	NA	NA		
MW-6	12/10/2012	15.01	ND	98.91	83.90	NA	NA	NA		
	12/11/2012	16.24	ND	98.91	82.67	NA	NA	NA		5.0
	12/20/2012	17.93	ND	98.91	80.98	NA	NA	NA		6.0
	12/24/2012	16.55	ND	98.91	82.36	NA	NA	NA		3.9
	1/4/2013	17.96	ND	98.91	80.95	NA	NA	NA		7.0
	1/8/2013	18.35	ND	98.91	80.56	NA	NA	NA		6.5
	1/15/2013	17.02	ND	98.91	81.89	NA	NA	NA		13.0
	1/25/2013	15.86	ND	98.91	83.05	NA	NA	NA		
	1/29/2013	15.63	ND	98.91	83.28	NA	NA	NA		
	2/7/2013	16.70	ND	98.91	82.21	NA	NA	NA		4.8
	2/14/2013	16.29	ND	98.91	82.62	NA	NA	NA		> 5.0
	2/22/2013	16.21	ND	98.91	82.70	NA	NA	NA		
	2/27/2013	16.68	ND	98.91	82.23	NA	NA	NA		> 5.0
	3/7/2013	17.40	ND	98.91	81.51	NA	NA	NA		9.5
	4/18/2013	17.07	ND	98.91	81.84	NA	NA	NA		6.5
	5/30/2013	16.49	ND	98.91	82.42	NA	NA	NA		
	5/31/2013	16.47	ND	98.91	82.44	NA	NA	NA		3.5
	6/14/2013	14.78	ND	98.91	84.13	NA	NA	NA		3.0
	7/23/2013	13.97	ND	98.91	84.94	NA	NA	NA		
	8/2/2013	13.85	ND	98.91	85.06	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	8/13/2013	14.97	ND	98.91	83.94	NA	NA	NA		
	9/3/2013	13.48	ND	98.91	85.43	NA	NA	NA	System off: water level study	
	9/10/2013	13.63	ND	98.91	85.28	NA	NA	NA	System off: water level study	
	9/16/2013	15.94	ND	98.91	82.97	NA	NA	NA		
	10/24/2013	16.36	ND	98.91	82.55	NA	NA	NA		
	11/6/2013	15.94	ND	98.91	82.97	NA	NA	NA		0.6
	11/7/2013	15.22	ND	98.91	83.69	NA	NA	NA	System off for sampling	
	12/4/2013	16.63	ND	98.91	82.28	NA	NA	NA		
	1/13/2014	15.85	ND	98.91	83.06	NA	NA	NA		6.8
	2/10/2014	15.62	ND	98.91	83.29	NA	NA	NA		1.6
	2/11/2014	15.00	ND	98.91	83.91	NA	NA	NA		
	3/13/2014	14.18	ND	98.91	84.73	NA	NA	NA		2.2
	4/9/2014	14.84	ND	98.91	84.07	NA	NA	NA		0.7
	5/22/2014	13.58	ND	98.91	85.33	NA	NA	NA		
	6/4/2014	15.70	ND	98.91	83.21	NA	NA	NA		1.8
	7/1/2014	15.85	ND	98.91	83.06	NA	NA	NA		1.8
	8/14/2014	16.27	ND	98.91	82.64	NA	NA	NA		4.6
	8/15/2014	15.48	ND	98.91	83.43	NA	NA	NA		
	9/10/2014	16.12	ND	98.91	82.79	NA	NA	NA		1.6
	10/8/2014	15.50	ND	98.91	83.41	NA	NA	NA		7.3
	11/5/2014	15.85	ND	98.91	83.06	NA	NA	NA		3
	11/7/2014	15.31	ND	98.91	83.60	NA	NA	NA	System off for sampling	
	12/4/2014	15.60	ND	98.91	83.31	NA	NA	NA		>5.0
	1/7/2015	15.43	ND	98.91	83.48	NA	NA	NA		4.0
	2/25/2015	14.78	ND	98.91	84.13	NA	NA	NA		
MW-7*	12/10/2012	14.27	ND	97.75	83.48	NA	NA	NA	Depth to Groundwater Pump intake: 16.5 ft.	
	2/25/2013	15.33	ND	97.75	82.42	NA	NA	NA		
	5/30/2013	15.98	ND	97.75	81.77	NA	NA	NA	Depth to Groundwater Pump intake: 16.2 ft.	
	11/22/2013	NG	ND	97.75	NA	NA	NA	NA	Depth to Groundwater Pump intake: 16.2 ft.	
	1/7/2015	16.12	ND	97.75	81.63	NA	NA	NA		
MW-8	12/10/2012	14.29	ND	97.81	83.52	NA	NA	NA		NA
	12/11/2012	16.81	ND	97.81	81.00	NA	NA	NA		2.0
	12/20/2012	17.53	ND	97.81	80.28	NA	NA	NA		2.7
	12/24/2012	17.00	ND	97.81	80.81	NA	NA	NA		4.8
	1/4/2013	18.00	ND	97.81	79.81	NA	NA	NA		0.2
	1/8/2013	18.37	ND	97.81	79.44	NA	NA	NA		2.7
	1/15/2013	16.98	ND	97.81	80.83	NA	NA	NA		2.6
	1/25/2013	14.96	ND	97.81	82.85	NA	NA	NA		
	1/29/2013	14.80	ND	97.81	83.01	NA	NA	NA		
	2/7/2013	16.30	ND	97.81	81.51	NA	NA	NA		2.1
	2/14/2013	16.87	ND	97.81	80.94	NA	NA	NA		0.9
	2/22/2013	14.97	ND	97.81	82.84	NA	NA	NA		
	2/27/2013	17.15	ND	97.81	80.66	NA	NA	NA		2.4
	3/7/2013	17.38	ND	97.81	80.43	NA	NA	NA		1.8
	4/18/2013	17.04	ND	97.81	80.77	NA	NA	NA		1.7
	5/30/2013	15.51	ND	97.81	82.30	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	5/31/2013	16.27	ND	97.81	81.54	NA	NA	NA		2.0
	6/14/2013	13.03	ND	97.81	84.78	NA	NA	NA		1.5
	7/23/2013	12.97	ND	97.81	84.84	NA	NA	NA		
	8/2/2013	12.80	ND	97.81	85.01	NA	NA	NA		
	8/13/2013	13.35	ND	97.81	84.46	NA	NA	NA		
	9/3/2013	12.61	ND	97.81	85.20	NA	NA	NA	System off: water level study	
	9/10/2013	12.83	ND	97.81	84.98	NA	NA	NA	System off: water level study	
	9/16/2013	14.62	ND	97.81	83.19	NA	NA	NA		
	10/24/2013	14.58	ND	97.81	83.23	NA	NA	NA		
	11/6/2013	15.71	ND	97.81	82.10	NA	NA	NA		2.2
	11/7/2013	14.40	ND	97.81	83.41	NA	NA	NA	System off for sampling	
	12/4/2013	15.83	ND	97.81	81.98	NA	NA	NA		
	1/13/2014	15.71	ND	97.81	82.10	NA	NA	NA		0.0
	2/10/2014	14.30	ND	97.81	83.51	NA	NA	NA		1.8
	2/11/2014	13.88	ND	97.81	83.93	NA	NA	NA		
	3/13/2014	14.62	ND	97.81	83.19	NA	NA	NA		0.6
	4/9/2014	14.66	ND	97.81	83.15	NA	NA	NA		0.2
	5/22/2014	12.53	ND	97.81	85.28	NA	NA	NA		
	6/4/2014	15.19	ND	97.81	82.62	NA	NA	NA		1.5
	7/1/2014	15.33	ND	97.81	82.48	NA	NA	NA		0.4
	8/14/2014	15.94	ND	97.81	81.87	NA	NA	NA		2.0
	8/15/2014	14.33	ND	97.81	83.48	NA	NA	NA		
	9/10/2014	15.70	ND	97.81	82.11	NA	NA	NA		0.28
	10/8/2014	15.75	ND	97.81	82.06	NA	NA	NA		2.1
	11/5/2014	14.80	ND	97.81	83.01	NA	NA	NA		1.5
	11/7/2014	14.55	ND	97.81	83.26	NA	NA	NA	System off for sampling	
	12/4/2014	15.88	ND	97.81	81.93	NA	NA	NA		2.5
	1/7/2015	15.49	ND	97.81	82.32	NA	NA	NA		2.0
	2/25/2015	13.90	ND	97.81	83.91	NA	NA	NA		
MW-9	12/10/2012	13.29	ND	96.73	83.44	NA	NA	NA	Mod. Odor	NA
	12/11/2012	14.87	ND	96.73	81.86	NA	NA	NA	Mod. Odor	0.0
	12/20/2012	16.28	ND	96.73	80.45	NA	NA	NA	Mod. Odor	0.0
	12/24/2012	15.42	ND	96.73	81.31	NA	NA	NA	Mod. Odor	0.0
	1/4/2013	16.42	ND	96.73	80.31	NA	NA	NA	Slight Odor	0.0
	1/8/2013	16.71	ND	96.73	80.02	NA	NA	NA	Mod. Odor	0.0
	1/15/2013	15.64	ND	96.73	81.09	NA	NA	NA		0.0
	1/25/2013	13.95	ND	96.73	82.78	NA	NA	NA	Mod. Odor	
	1/29/2013	13.79	ND	96.73	82.94	NA	NA	NA	Slight Odor	
	2/7/2013	14.95	ND	96.73	81.78	NA	NA	NA	Slight Odor	
	2/14/2013	15.12	ND	96.73	81.61	NA	NA	NA	Slight Odor	
	2/22/2013	13.98	ND	96.73	82.75	NA	NA	NA	Mod. Odor	
	2/27/2013	15.62	ND	96.73	81.11	NA	NA	NA	Mod. Odor	
	3/7/2013	15.91	ND	96.73	80.82	NA	NA	NA	Slight Odor	
	4/18/2013	15.53	ND	96.73	81.20	NA	NA	NA	Mod. Odor	
	5/30/2013	14.51	ND	96.73	82.22	NA	NA	NA	Slight Odor	
	5/31/2013	14.81	ND	96.73	81.92	NA	NA	NA	Slight Odor	
	6/14/2013	13.03	ND	96.73	83.70	NA	NA	NA	Slight Odor	
	7/23/2013	12.10	ND	96.73	84.63	NA	NA	NA		
	8/2/2013	12.87	ND	96.73	83.86	NA	NA	NA		
	8/13/2013	12.23	ND	96.73	84.50	NA	NA	NA	Slight Odor	

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	9/3/2013	11.62	ND	96.73	85.11	NA	NA	NA	System off: water level study	
	9/10/2013	11.83	ND	96.73	84.90	NA	NA	NA	System off: water level study	
	9/16/2013	13.51	ND	96.73	83.22	NA	NA	NA	Slight Odor	
	10/24/2013	13.44	ND	96.73	83.29	NA	NA	NA	Slight Odor	
	11/6/2013	14.21	ND	96.73	82.52	NA	NA	NA	Mod. Odor	
	11/7/2013	13.40	ND	96.73	83.33	NA	NA	NA	System off for sampling	
	12/4/2013	14.50	ND	96.73	82.23	NA	NA	NA	Slight Odor	
	1/13/2014	14.15	ND	96.73	82.58	NA	NA	NA		
	2/10/2014	12.38	ND	96.73	84.35	NA	NA	NA	Slight Odor	
	2/11/2014	12.83	ND	96.73	83.90	NA	NA	NA		
	3/13/2014	12.85	ND	96.73	83.88	NA	NA	NA		
	4/9/2014	12.54	ND	96.73	84.19	NA	NA	NA	Slight Odor	
	5/22/2014	11.43	ND	96.73	85.30	NA	NA	NA	Slight Odor	
	6/4/2014	13.40	ND	96.73	83.33	NA	NA	NA		
	7/1/2014	13.62	ND	96.73	83.11	NA	NA	NA		
	8/14/2014	14.33	ND	96.73	82.40	NA	NA	NA		
	8/15/2014	13.21	ND	96.73	83.52	NA	NA	NA		
	9/10/2014	14.10	ND	96.73	82.63	NA	NA	NA		
	10/8/2014	14.11	ND	96.73	82.62	NA	NA	NA		
	11/5/2014	13.80	ND	96.73	82.93	NA	NA	NA		
	11/7/2014	13.48	ND	96.73	83.25	NA	NA	NA	System off for sampling	
	12/4/2014	14.48	ND	96.73	82.25	NA	NA	NA		
	1/7/2015	14.12	ND	96.73	82.61	NA	NA	NA		
	2/25/2015	12.88	ND	96.73	83.85	NA	NA	NA	Slight Odor	
MW-10	12/10/2012	11.73	ND	94.95	83.22	NA	NA	NA		NA
	12/11/2012	12.93	ND	94.95	82.02	NA	NA	NA		0.0
	12/20/2012	14.25	ND	94.95	80.70	NA	NA	NA		0.0
	12/24/2012	16.42	ND	94.95	78.53	NA	NA	NA		0.0
	1/4/2013	14.31	ND	94.95	80.64	NA	NA	NA		0.0
	1/8/2013	14.58	ND	94.95	80.37	NA	NA	NA		0.0
	1/15/2013	13.65	ND	94.95	81.30	NA	NA	NA		0.0
	1/25/2013	12.23	ND	94.95	82.72	NA	NA	NA		
	1/29/2013	12.12	ND	94.95	82.83	NA	NA	NA		
	2/7/2013	13.02	ND	94.95	81.93	NA	NA	NA		
	2/14/2013	13.05	ND	94.95	81.90	NA	NA	NA		
	2/21/2013	12.34	ND	94.95	82.61	NA	NA	NA		
	2/27/2013	13.53	ND	94.95	81.42	NA	NA	NA		
	3/7/2013	12.78	ND	94.95	82.17	NA	NA	NA		
	4/18/2013	13.45	ND	94.95	81.50	NA	NA	NA		
	5/30/2013	12.73	ND	94.95	82.22	NA	NA	NA		
	5/31/2013	12.85	ND	94.95	82.10	NA	NA	NA		
	6/14/2013	11.23	ND	94.95	83.72	NA	NA	NA		
	7/23/2013	10.40	ND	94.95	84.55	NA	NA	NA		
	8/2/2013	10.18	ND	94.95	84.77	NA	NA	NA		
	8/13/2013	10.55	ND	94.95	84.40	NA	NA	NA	Slight Odor	
	9/10/2013	10.20	ND	94.95	84.75	NA	NA	NA	System off: water level study	
	9/16/2013	11.68	ND	94.95	83.27	NA	NA	NA	Slight Odor	
	10/24/2013	11.74	ND	94.95	83.21	NA	NA	NA		
	11/6/2013	12.39	ND	94.95	82.56	NA	NA	NA		
	11/7/2013	11.78	ND	94.95	83.17	NA	NA	NA	System off for sampling	

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	12/4/2014	12.76	ND	94.95	82.19	NA	NA	NA		
	1/13/2014	12.25	ND	94.95	82.70	NA	NA	NA		
	2/10/2014	11.55	ND	94.95	83.40	NA	NA	NA		
	2/11/2014	11.10	ND	94.95	83.85	NA	NA	NA		
	3/13/2014	10.85	ND	94.95	84.10	NA	NA	NA		
	4/9/2014	10.56	ND	94.95	84.39	NA	NA	NA		
	5/22/2014	9.76	ND	94.95	85.19	NA	NA	NA		
	6/4/2014	11.43	ND	94.95	83.52	NA	NA	NA		
	7/1/2014	11.72	ND	94.95	83.23	NA	NA	NA		
	8/14/2014	12.44	ND	94.95	82.51	NA	NA	NA		
	8/15/2014	11.53	ND	94.95	83.42	NA	NA	NA		
	9/10/2014	12.37	ND	94.95	82.58	NA	NA	NA		
	10/8/2014	12.42	ND	94.95	82.53	NA	NA	NA		
	11/5/2014	12.20	ND	94.95	82.75	NA	NA	NA		
	11/6/2014	11.92	ND	94.95	83.03	NA	NA	NA	System off for sampling	
	12/4/2014	12.70	ND	94.95	82.25	NA	NA	NA		
	1/7/2015	12.35	ND	94.95	82.60	NA	NA	NA		
	2/25/2015	11.25	ND	94.95	83.70	NA	NA	NA		
MW-11	12/10/2012	15.50	ND	98.69	83.19	NA	NA	NA		NA
	12/11/2012	17.09	ND	98.69	81.60	NA	NA	NA		0.0
	12/20/2012	18.23	ND	98.69	80.46	NA	NA	NA		0.0
	12/24/2012	17.44	ND	98.69	81.25	NA	NA	NA		0.0
	1/4/2013	18.32	ND	98.69	80.37	NA	NA	NA		0.0
	1/8/2013	18.66	ND	98.69	80.03	NA	NA	NA		0.0
	1/15/2013	17.61	ND	98.69	81.08	NA	NA	NA		< 0.0
	1/25/2013	15.98	ND	98.69	82.71	NA	NA	NA		
	1/29/2013	15.85	ND	98.69	82.84	NA	NA	NA		
	2/7/2013	16.99	ND	98.69	81.70	NA	NA	NA		
	2/14/2013	17.09	ND	98.69	81.60	NA	NA	NA		
	2/22/2013	15.98	ND	98.69	82.71	NA	NA	NA		
	2/27/2013	17.71	ND	98.69	80.98	NA	NA	NA		
	3/7/2013	18.40	ND	98.69	80.29	NA	NA	NA		
	4/18/2013	17.49	ND	98.69	81.20	NA	NA	NA		
	5/29/2013	16.63	ND	98.69	82.06	NA	NA	NA		
	5/31/2013	16.79	ND	98.69	81.90	NA	NA	NA		
	6/14/2013	15.00	ND	98.69	83.69	NA	NA	NA		
	7/23/2013	14.12	ND	98.69	84.57	NA	NA	NA		
	8/2/2013	13.94	ND	98.69	84.75	NA	NA	NA		
	8/13/2013	14.65	ND	98.69	84.04	NA	NA	NA		
	9/3/2013	13.75	ND	98.69	84.94	NA	NA	NA	System off: water level study	
	9/10/2013	13.97	ND	98.69	84.72	NA	NA	NA	System off: water level study	
	9/16/2013	15.63	ND	98.69	83.06	NA	NA	NA		
	10/24/2013	15.59	ND	98.69	83.10	NA	NA	NA		
	11/6/2013	16.40	ND	98.69	82.29	NA	NA	NA		
	11/7/2013	15.55	ND	98.69	83.14	NA	NA	NA	System off for sampling	
	12/4/2013	16.67	ND	98.69	82.02	NA	NA	NA		
	1/13/2014	16.23	ND	98.69	82.46	NA	NA	NA		
	2/10/2014	15.41	ND	98.69	83.28	NA	NA	NA		
	2/11/2014	13.09	ND	98.69	85.60	NA	NA	NA		
	3/13/2014	14.90	ND	98.69	83.79	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	4/9/2014	14.72	ND	98.69	83.97	NA	NA	NA		
	5/22/2014	13.54	ND	98.69	85.15	NA	NA	NA		
	6/4/2014	15.62	ND	98.69	83.07	NA	NA	NA		
	7/1/2014	15.84	ND	98.69	82.85	NA	NA	NA		
	8/14/2014	16.63	ND	98.69	82.06	NA	NA	NA		
	8/15/2014	15.33	ND	98.69	83.36	NA	NA	NA		
	9/10/2014	16.40	ND	98.69	82.29	NA	NA	NA		
	10/8/2014	16.46	ND	98.69	82.23	NA	NA	NA		
	11/5/2014	16.04	ND	98.69	82.65	NA	NA	NA		
	11/7/2014	15.73	ND	98.69	82.96	NA	NA	NA	System off for sampling	
	12/4/2014	12.75	ND	98.69	85.94	NA	NA	NA		
	1/7/2015	16.36	ND	98.69	82.33	NA	NA	NA		
	2/25/2015	14.98	ND	98.69	83.71	NA	NA	NA		
MW-12	12/10/2012	14.03	ND	96.75	82.72	NA	NA	NA		NA
	12/11/2012	14.96	ND	96.75	81.79	NA	NA	NA		0.0
	12/20/2012	16.16	ND	96.75	80.59	NA	NA	NA		0.0
	12/24/2012	15.35	ND	96.75	81.40	NA	NA	NA		0.0
	1/4/2013	16.09	ND	96.75	80.66	NA	NA	NA		0.0
	1/8/2013	16.34	ND	96.75	80.41	NA	NA	NA		0.0
	1/15/2013	15.53	ND	96.75	81.22	NA	NA	NA		0.0
	1/25/2013	14.29	ND	96.75	82.46	NA	NA	NA		
	1/29/2013	14.22	ND	96.75	82.53	NA	NA	NA		
	2/7/2013	14.92	ND	96.75	81.83	NA	NA	NA		
	2/14/2013	14.86	ND	96.75	81.89	NA	NA	NA		
	2/22/2013	14.21	ND	96.75	82.54	NA	NA	NA		
	2/27/2013	15.32	ND	96.75	81.43	NA	NA	NA		
	3/7/2013	15.75	ND	96.75	81.00	NA	NA	NA		
	4/18/2013	15.25	ND	96.75	81.50	NA	NA	NA		
	5/29/2013	14.89	ND	96.75	81.86	NA	NA	NA		
	5/31/2013	14.81	ND	96.75	81.94	NA	NA	NA		
	6/14/2013	13.20	ND	96.75	83.55	NA	NA	NA		
	7/23/2013	12.43	ND	96.75	84.32	NA	NA	NA		
	8/2/2013	12.23	ND	96.75	84.52	NA	NA	NA		
	8/13/2013	12.45	ND	96.75	84.30	NA	NA	NA		
	9/10/2013	12.40	ND	96.75	84.35	NA	NA	NA	System off: water level study	
	9/16/2013	13.70	ND	96.75	83.05	NA	NA	NA		
	10/24/2013	13.87	ND	96.75	82.88	NA	NA	NA		
	11/6/2013	14.51	ND	96.75	82.24	NA	NA	NA		
	11/7/2013	13.99	ND	96.75	82.76	NA	NA	NA	System off for sampling	
	12/4/2013	14.89	ND	96.75	81.86	NA	NA	NA		
	1/13/2014	14.14	ND	96.75	82.61	NA	NA	NA		
	2/10/2014	13.09	ND	96.75	83.66	NA	NA	NA		
	2/11/2014	13.46	ND	96.75	83.29	NA	NA	NA		
	3/13/2014	12.72	ND	96.75	84.03	NA	NA	NA		
	4/9/2014	12.46	ND	96.75	84.29	NA	NA	NA		
	5/22/2014	11.67	ND	96.75	85.08	NA	NA	NA		
	6/4/2014	13.28	ND	96.75	83.47	NA	NA	NA		
	7/1/2014	13.70	ND	96.75	83.05	NA	NA	NA		
	8/14/2014	14.42	ND	96.75	82.33	NA	NA	NA		
	8/15/2014	13.61	ND	96.75	83.14	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	9/10/2014	14.52	ND	96.75	82.23	NA	NA	NA		
	10/8/2014	14.64	ND	96.75	82.11	NA	NA	NA		
	11/5/2014	14.45	ND	96.75	82.30	NA	NA	NA		
	11/6/2014	14.21	ND	96.75	82.54	NA	NA	NA	System off for sampling	
	12/4/2014	14.77	ND	96.75	81.98	NA	NA	NA		
	1/7/2015	14.36	ND	96.75	82.39	NA	NA	NA		
	2/25/2015	NG	ND	96.75	NA	NA	NA	NA	Snow covered	
MW-13	12/10/2012	8.35	ND	91.72	83.37	NA	NA	NA		NA
	12/11/2012	8.81	ND	91.72	82.91	NA	NA	NA		0.0
	12/20/2012	9.96	ND	91.72	81.76	NA	NA	NA		0.0
	12/24/2012	9.51	ND	91.72	82.21	NA	NA	NA		0.0
	1/4/2013	10.18	ND	91.72	81.54	NA	NA	NA		0.0
	1/8/2013	10.32	ND	91.72	81.40	NA	NA	NA		0.0
	1/15/2013	9.82	ND	91.72	81.90	NA	NA	NA		0.1
	1/25/2013	8.98	ND	91.72	82.74	NA	NA	NA		
	1/29/2013	8.86	ND	91.72	82.86	NA	NA	NA		
	2/7/2013	9.25	ND	91.72	82.47	NA	NA	NA		
	2/14/2013	9.17	ND	91.72	82.55	NA	NA	NA		
	2/21/2013	9.06	ND	91.72	82.66	NA	NA	NA		
	2/27/2013	9.32	ND	91.72	82.40	NA	NA	NA		
	3/7/2013	9.69	ND	91.72	82.03	NA	NA	NA		
	4/18/2013	9.50	ND	91.72	82.22	NA	NA	NA		
	5/29/2013	9.35	ND	91.72	82.37	NA	NA	NA		
	5/31/2013	9.19	ND	91.72	82.53	NA	NA	NA		
	6/14/2013	8.09	ND	91.72	83.63	NA	NA	NA		
	7/23/2013	7.29	ND	91.72	84.43	NA	NA	NA		
	8/2/2013	7.11	ND	91.72	84.61	NA	NA	NA		
	8/13/2013	7.32	ND	91.72	84.40	NA	NA	NA		
	9/10/2013	7.03	ND	91.72	84.69	NA	NA	NA	System off: water level study	
	9/16/2013	8.05	ND	91.72	83.67	NA	NA	NA		
	10/24/2013	8.19	ND	91.72	83.53	NA	NA	NA		
	11/6/2013	8.50	ND	91.72	83.22	NA	NA	NA		
	11/7/2013	8.25	ND	91.72	83.47	NA	NA	NA	System off for sampling	
	12/4/2013	9.01	ND	91.72	83.84	NA	NA	NA		
	1/13/2014	8.49	ND	91.72	83.23	NA	NA	NA		
	2/10/2014	8.00	ND	91.72	83.72	NA	NA	NA		
	2/11/2014	7.81	ND	91.72	83.91	NA	NA	NA		
	3/13/2014	7.23	ND	91.72	84.49	NA	NA	NA		
	4/9/2014	7.13	ND	91.72	84.59	NA	NA	NA		
	5/22/2014	6.82	ND	91.72	84.90	NA	NA	NA		
	6/4/2014	7.55	ND	91.72	84.17	NA	NA	NA		
	7/1/2014	7.81	ND	91.72	83.91	NA	NA	NA		
	8/14/2014	8.45	ND	91.72	83.27	NA	NA	NA		
	8/15/2014	8.06	ND	91.72	83.66	NA	NA	NA		
	9/10/2014	8.54	ND	91.72	83.18	NA	NA	NA		
	10/8/2014	8.55	ND	91.72	83.17	NA	NA	NA		
	11/5/2014	8.56	ND	91.72	83.16	NA	NA	NA		
	11/6/2014	8.40	ND	91.72	83.32	NA	NA	NA	System off for sampling	
	12/4/2014	8.82	ND	91.72	82.90	NA	NA	NA		
	1/7/2015	8.53	ND	91.72	83.19	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	2/25/2015	7.80	ND	91.72	83.92	NA	NA	NA		
MW-14	12/10/2012	10.23	ND	94.07	83.84	NA	NA	NA		NA
	12/11/2012	11.03	ND	94.07	83.04	NA	NA	NA		0.0
	12/20/2012	12.49	ND	94.07	81.58	NA	NA	NA		0.1
	12/24/2012	11.82	ND	94.07	82.25	NA	NA	NA		0.0
	1/4/2013	12.73	ND	94.07	81.34	NA	NA	NA		0.0
	1/8/2013	12.85	ND	94.07	81.22	NA	NA	NA		0.0
	1/15/2013	12.26	ND	94.07	81.81	NA	NA	NA		< 0.0
	1/25/2013	11.02	ND	94.07	83.05	NA	NA	NA		
	1/29/2013	10.81	ND	94.07	83.26	NA	NA	NA		
	2/7/2013	11.51	ND	94.07	82.56	NA	NA	NA		
	2/14/2013	11.48	ND	94.07	82.59	NA	NA	NA		
	2/21/2013	11.25	ND	94.07	82.82	NA	NA	NA		
	2/27/2013	11.75	ND	94.07	82.32	NA	NA	NA		
	3/7/2013	12.17	ND	94.07	81.90	NA	NA	NA		
	4/18/2013	11.92	ND	94.07	82.15	NA	NA	NA		
	5/29/2013	11.59	ND	94.07	82.48	NA	NA	NA		
	5/31/2013	11.38	ND	94.07	82.69	NA	NA	NA		
	6/14/2013	10.09	ND	94.07	83.98	NA	NA	NA		
	7/23/2013	9.21	ND	94.07	84.86	NA	NA	NA		
	8/2/2013	9.02	ND	94.07	85.05	NA	NA	NA		
	8/13/2013	9.71	ND	94.07	84.36	NA	NA	NA		
	9/3/2013	8.71	ND	94.07	85.36	NA	NA	NA	System off: water level study	
	9/10/2013	8.85	ND	94.07	85.22	NA	NA	NA	System off: water level study	
	9/16/2013	10.28	ND	94.07	83.79	NA	NA	NA		
	10/24/2013	10.25	ND	94.07	83.82	NA	NA	NA		
	11/6/2013	10.61	ND	94.07	83.46	NA	NA	NA		
	11/7/2013	10.19	ND	94.07	83.88	NA	NA	NA	System off for sampling	
	12/4/2013	11.20	ND	94.07	82.87	NA	NA	NA		
	1/13/2014	10.81	ND	94.07	83.26	NA	NA	NA		
	2/10/2014	10.15	ND	94.07	83.92	NA	NA	NA		
	2/11/2014	9.87	ND	94.07	84.20	NA	NA	NA		
	3/13/2014	9.30	ND	94.07	84.77	NA	NA	NA		
	4/9/2014	9.25	ND	94.07	84.82	NA	NA	NA		
	5/22/2014	8.62	ND	94.07	85.45	NA	NA	NA		
	6/4/2014	9.82	ND	94.07	84.25	NA	NA	NA		
	7/1/2014	10.02	ND	94.07	84.05	NA	NA	NA		
	8/14/2014	10.77	ND	94.07	83.30	NA	NA	NA		
	8/15/2014	10.19	ND	94.07	83.88	NA	NA	NA		
	9/10/2014	10.68	ND	94.07	83.39	NA	NA	NA		
	10/8/2014	10.58	ND	94.07	83.49	NA	NA	NA		
	11/5/2014	10.57	ND	94.07	83.50	NA	NA	NA		
	11/6/2014	10.36	ND	94.07	83.71	NA	NA	NA	System off for sampling	
	12/4/2014	11.10	ND	94.07	82.97	NA	NA	NA		
	1/7/2015	10.72	ND	94.07	83.35	NA	NA	NA		
	2/25/2015	9.76	ND	94.07	84.31	NA	NA	NA		
MW-15	12/10/2012	16.36	ND	99.77	83.41	NA	NA	NA		NA
	12/11/2012	17.56	ND	99.77	82.21	NA	NA	NA		3.8
	12/20/2012	19.92	ND	99.77	79.85	NA	NA	NA		2.4
	12/24/2012	18.26	ND	99.77	81.51	NA	NA	NA		1.0

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	1/4/2013	19.75	ND	99.77	80.02	NA	NA	NA		5.5
	1/8/2013	20.08	ND	99.77	79.69	NA	NA	NA		2.4
	1/15/2013	18.56	ND	99.77	81.21	NA	NA	NA		> 5.0
	1/25/2013	17.11	ND	99.77	82.66	NA	NA	NA		
	1/29/2013	16.95	ND	99.77	82.82	NA	NA	NA		
	2/7/2013	18.30	ND	99.77	81.47	NA	NA	NA		3.1
	2/14/2013	18.03	ND	99.77	81.74	NA	NA	NA		> 5.0
	2/21/2013	17.52	ND	99.77	82.25	NA	NA	NA		> 5.0
	2/27/2013	18.90	ND	99.77	80.87	NA	NA	NA		> 5.0
	3/7/2013	19.38	ND	99.77	80.39	NA	NA	NA		6.5
	4/18/2013	18.86	ND	99.77	80.91	NA	NA	NA		4.2
	5/30/2013	17.81	ND	99.77	81.96	NA	NA	NA		2.3
	5/31/2013	17.82	ND	99.77	81.95	NA	NA	NA		
	6/14/2013	16.15	ND	99.77	83.62	NA	NA	NA		1.0
	7/23/2013	14.93	ND	99.77	84.84	NA	NA	NA		
	8/2/2013	14.83	ND	99.77	84.94	NA	NA	NA		
	8/13/2013	15.80	ND	99.77	83.97	NA	NA	NA		
	9/3/2013	14.53	ND	99.77	85.24	NA	NA	NA	System off: water level study	
	9/10/2013	14.73	ND	99.77	85.04	NA	NA	NA	System off: water level study	
	9/16/2013	17.10	ND	99.77	82.67	NA	NA	NA		
	10/24/2013	16.61	ND	99.77	83.16	NA	NA	NA		
	11/6/2013	17.41	ND	99.77	82.36	NA	NA	NA		0.0
	11/7/2013	16.52	ND	99.77	83.25	NA	NA	NA	System off for sampling	
	12/4/2013	17.84	ND	99.77	81.93	NA	NA	NA		
	1/13/2014	17.33	ND	99.77	82.44	NA	NA	NA		7.2
	2/10/2014	17.03	ND	99.77	82.74	NA	NA	NA		3.4
	2/11/2014	16.20	ND	99.77	83.57	NA	NA	NA		
	3/13/2014	15.70	ND	99.77	84.07	NA	NA	NA		2.8
	4/9/2014	16.07	ND	99.77	83.70	NA	NA	NA		3.2
	5/22/2014	14.73	ND	99.77	85.04	NA	NA	NA		
	6/4/2014	17.23	ND	99.77	82.54	NA	NA	NA		
	7/1/2014	17.40	ND	99.77	82.37	NA	NA	NA		
	8/14/2014	17.88	ND	99.77	81.89	NA	NA	NA		1.5
	8/15/2014	16.78	ND	99.77	82.99	NA	NA	NA		
	9/10/2014	17.45	ND	99.77	82.32	NA	NA	NA		0.4
	10/8/2014	17.16	ND	99.77	82.61	NA	NA	NA		2.1
	11/5/2014	17.10	ND	99.77	82.67	NA	NA	NA		4.5
	11/6/2014	16.73	ND	99.77	83.04	NA	NA	NA	System off for sampling	
	12/4/2014	17.20	ND	99.77	82.57	NA	NA	NA		>5.0
	1/7/2015	17.07	ND	99.77	82.70	NA	NA	NA		5.0
	2/25/2015	16.04	ND	99.77	83.73	NA	NA	NA		
MW-16	12/10/2012	7.56	ND	98.73	91.17	NA	NA	NA		1.5
	12/11/2012	7.30	ND	98.73	91.43	NA	NA	NA		0
	12/20/2012	8.17	ND	98.73	90.56	NA	NA	NA		0
	12/24/2012	7.96	ND	98.73	90.77	NA	NA	NA		0
	1/4/2013	8.02	ND	98.73	90.71	NA	NA	NA		0.05
	1/8/2013	8.03	ND	98.73	90.70	NA	NA	NA		0.1
	1/15/2013	7.65	ND	98.73	91.08	NA	NA	NA		< 0.0
	1/25/2013	7.81	ND	98.73	90.92	NA	NA	NA		
	1/29/2013	7.77	ND	98.73	90.96	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	2/7/2013	7.90	ND	98.73	90.83	NA	NA	NA		
	2/14/2013	NG	ND	98.73	NA	NA	NA	NA	Well head submerged in puddle	
	2/21/2013	7.43	ND	98.73	91.30	NA	NA	NA		
	2/27/2013	NG	ND	98.73	NA	NA	NA	NA	Well head submerged in puddle	
	3/7/2013	7.90	ND	98.73	90.83	NA	NA	NA		
	4/18/2013	8.22	ND	98.73	90.51	NA	NA	NA		
	5/29/2013	8.19	ND	98.73	90.54	NA	NA	NA		
	5/31/2013	8.06	ND	98.73	90.67	NA	NA	NA		
	6/14/2013	7.00	ND	98.73	91.73	NA	NA	NA		
	7/23/2013	6.67	ND	98.73	92.06	NA	NA	NA		
	8/2/2013	6.56	ND	98.73	92.17	NA	NA	NA		
	8/13/2013	6.82	ND	98.73	91.91	NA	NA	NA		
	9/3/2013	7.45	ND	98.73	91.28	NA	NA	NA	System off: water level study	
	9/10/2013	7.55	ND	98.73	91.18	NA	NA	NA	System off: water level study	
	9/16/2013	8.14	ND	98.73	90.59	NA	NA	NA		
	10/24/2013	8.16	ND	98.73	90.57	NA	NA	NA		
	11/6/2013	8.61	ND	98.73	90.12	NA	NA	NA		0.0
	11/7/2013	8.51	ND	98.73	90.22	NA	NA	NA	System off for sampling	
	12/4/2013	8.74	ND	98.73	89.99	NA	NA	NA		
	1/13/2014	7.94	ND	98.73	90.79	NA	NA	NA		
	2/10/2014	7.19	ND	98.73	91.54	NA	NA	NA		
	2/11/2014	7.27	ND	98.73	91.46	NA	NA	NA		
	3/13/2014	6.62	ND	98.73	92.11	NA	NA	NA		
	4/9/2014	6.52	ND	98.73	92.21	NA	NA	NA		
	5/22/2014	6.82	ND	98.73	91.91	NA	NA	NA		
	6/4/2014	7.25	ND	98.73	91.48	NA	NA	NA		
	7/1/2014	7.54	ND	98.73	91.19	NA	NA	NA		1.6
	8/14/2014	7.63	ND	98.73	91.10	NA	NA	NA		
	8/15/2014	7.55	ND	98.73	91.18	NA	NA	NA		
	9/10/2014	7.25	ND	98.73	91.48	NA	NA	NA		
	10/8/2014	7.97	ND	98.73	90.76	NA	NA	NA		
	11/5/2014	7.93	ND	98.73	90.80	NA	NA	NA		
	11/6/2014	NG	ND	NA	NA	NA	NA	NA	Flooded, not acessible	
	12/4/2014	8.45	ND	98.73	90.28	NA	NA	NA		
	1/7/2015	8.13	ND	98.73	90.60	NA	NA	NA		
	2/25/2015	7.51	ND	98.73	91.22	NA	NA	NA		
MW-10-D	12/10/2012	13.53	ND	94.05	80.52	NA	NA	NA		
	12/20/2012	17.51	ND	94.05	76.54	NA	NA	NA		
	12/24/2012	16.55	ND	94.05	77.50	NA	NA	NA		
	1/4/2013	16.99	ND	94.05	77.06	NA	NA	NA		
	1/8/2013	17.31	ND	94.05	76.74	NA	NA	NA		
	1/15/2013	14.85	ND	94.05	79.20	NA	NA	NA		
	1/25/2013	14.14	ND	94.05	79.91	NA	NA	NA		
	1/29/2013	13.71	ND	94.05	80.34	NA	NA	NA		
	2/7/2013	14.11	ND	94.05	79.94	NA	NA	NA		
	2/14/2013	14.03	ND	94.05	80.02	NA	NA	NA		
	2/21/2013	13.97	ND	94.05	80.08	NA	NA	NA		
	2/27/2013	14.03	ND	94.05	80.02	NA	NA	NA		
	3/7/2013	14.55	ND	94.05	79.50	NA	NA	NA		
	4/18/2013	14.68	ND	94.05	79.37	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	5/30/2013	14.73	ND	94.05	79.32	NA	NA	NA		
	5/31/2013	14.26	ND	94.05	79.79	NA	NA	NA		
	6/14/2013	13.32	ND	94.05	80.73	NA	NA	NA		
	7/23/2013	13.20	ND	94.05	80.85	NA	NA	NA		
	8/2/2013	12.92	ND	94.05	81.13	NA	NA	NA		
	8/16/2013	12.85	ND	94.05	81.20	NA	NA	NA		
	9/10/2013	12.75	ND	94.05	81.30	NA	NA	NA	System off: water level study	
	9/16/2013	14.20	ND	94.05	79.85	NA	NA	NA		
	10/24/2013	13.78	ND	94.05	80.27	NA	NA	NA		
	11/6/2013	14.24	ND	94.05	79.81	NA	NA	NA		
	11/7/2013	13.91	ND	94.05	80.14	NA	NA	NA	System off for sampling	
	12/4/2013	14.92	ND	94.05	79.13	NA	NA	NA		
	1/13/2014	13.83	ND	94.05	80.22	NA	NA	NA		
	2/10/2014	13.16	ND	94.05	80.89	NA	NA	NA		
	2/11/2014	12.68	ND	94.05	81.37	NA	NA	NA		
	3/13/2014	11.88	ND	94.05	82.17	NA	NA	NA		
	4/9/2014	12.46	ND	94.05	81.59	NA	NA	NA		
	5/21/2014	12.82	ND	94.05	81.23	NA	NA	NA		
	6/4/2014	13.50	ND	94.05	80.55	NA	NA	NA		
	7/1/2014	13.82	ND	94.05	80.23	NA	NA	NA		
	8/14/2014	14.62	ND	94.05	79.43	NA	NA	NA		
	8/15/2014	14.40	ND	94.05	79.65	NA	NA	NA		
	9/10/2014	14.77	ND	94.05	79.28	NA	NA	NA		
	10/8/2014	14.93	ND	94.05	79.12	NA	NA	NA		
	11/5/2014	14.80	ND	94.05	79.25	NA	NA	NA	System off for sampling	
	12/4/2014	14.51	ND	94.05	79.54	NA	NA	NA		
	1/7/2015	14.19	ND	94.05	79.86	NA	NA	NA		
	2/25/2015	14.21	ND	94.05	79.84	NA	NA	NA		
MW-12-D	12/10/2012	27.34	ND	96.25	68.91	NA	NA	NA		
	12/20/2012	42.81	ND	96.25	53.44	NA	NA	NA		
	12/24/2012	41.17	ND	96.25	55.08	NA	NA	NA		
	1/4/2013	40.97	ND	96.25	55.28	NA	NA	NA		
	1/8/2013	41.25	ND	96.25	55.00	NA	NA	NA		
	1/15/2013	29.10	ND	96.25	67.15	NA	NA	NA		
	1/25/2013	NA	ND	96.25	NA	NA	NA	NA		
	1/29/2013	NA	ND	96.25	NA	NA	NA	NA		
	2/7/2013	29.05	ND	96.25	67.20	NA	NA	NA		
	2/14/2013	29.76	ND	96.25	66.49	NA	NA	NA		
	2/22/2013	30.53	ND	96.25	65.72	NA	NA	NA		
	2/27/2013	30.57	ND	96.25	65.68	NA	NA	NA		
	3/7/2013	29.45	ND	96.25	66.80	NA	NA	NA		
	4/18/2013	31.87	ND	96.25	64.38	NA	NA	NA		
	5/29/2013	36.04	ND	96.25	60.21	NA	NA	NA		
	5/31/2013	34.55	ND	96.25	61.70	NA	NA	NA		
	6/14/2013	34.36	ND	96.25	61.89	NA	NA	NA		
	7/23/2013	38.40	ND	96.25	57.85	NA	NA	NA		
	8/2/2013	34.35	ND	96.25	61.90	NA	NA	NA		
	8/16/2013	34.00	ND	96.25	62.25	NA	NA	NA		
	9/10/2013	32.75	ND	96.25	63.50	NA	NA	NA	System off: water level study	
	9/16/2013	35.29	ND	96.25	60.96	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	10/24/2013	31.48	ND	96.25	64.77	NA	NA	NA		
	11/6/2013	30.82	ND	96.25	65.43	NA	NA	NA		
	11/7/2013	31.18	ND	96.25	65.07	NA	NA	NA	System off for sampling	
	12/4/2013	34.15	ND	96.25	62.10	NA	NA	NA		
	1/13/2014	31.10	ND	96.25	65.15	NA	NA	NA		
	2/10/2014	30.09	ND	96.25	66.16	NA	NA	NA		
	2/11/2014	29.75	ND	96.25	66.50	NA	NA	NA		
	3/13/2014	30.15	ND	96.25	66.10	NA	NA	NA		
	4/9/2014	29.54	ND	96.25	66.71	NA	NA	NA		
	5/21/2014	31.68	ND	96.25	64.57	NA	NA	NA		
	6/4/2014	32.20	ND	96.25	64.05	NA	NA	NA		
	7/1/2014	33.64	ND	96.25	62.61	NA	NA	NA		
	8/14/2014	33.89	ND	96.25	62.36	NA	NA	NA		
	8/15/2014	36.60	ND	96.25	59.65	NA	NA	NA		
	9/10/2014	34.65	ND	96.25	61.60	NA	NA	NA		
	10/8/2014	34.37	ND	96.25	61.88	NA	NA	NA		
	11/5/2014	33.57	ND	96.25	62.68	NA	NA	NA	System off for sampling	
	12/4/2014	33.28	ND	96.25	62.97	NA	NA	NA		
	1/7/2015	33.41	ND	96.25	62.84	NA	NA	NA		
	2/25/2015	36.05	ND	96.25	60.20	NA	NA	NA		
MW-13-D	12/10/2012	17.26	ND	91.85	74.59	NA	NA	NA		
	12/20/2012	24.43	ND	91.85	67.42	NA	NA	NA		
	12/24/2012	23.94	ND	91.85	67.91	NA	NA	NA		
	1/4/2013	24.16	ND	91.85	67.69	NA	NA	NA		
	1/8/2013	22.84	ND	91.85	69.01	NA	NA	NA		
	1/15/2013	19.18	ND	91.85	72.67	NA	NA	NA		
	1/25/2013	19.40	ND	91.85	72.45	NA	NA	NA		
	1/29/2013	20.68	ND	91.85	71.17	NA	NA	NA		
	2/7/2013	19.66	ND	91.85	72.19	NA	NA	NA		
	2/14/2013	22.22	ND	91.85	69.63	NA	NA	NA		
	2/21/2013	20.82	ND	91.85	71.03	NA	NA	NA		
	2/27/2013	21.51	ND	91.85	70.34	NA	NA	NA		
	3/7/2013	23.25	ND	91.85	68.60	NA	NA	NA		
	4/18/2013	20.97	ND	91.85	70.88	NA	NA	NA		
	5/29/2013	21.50	ND	91.85	70.35	NA	NA	NA		
	5/31/2013	21.47	ND	91.85	70.38	NA	NA	NA		
	6/14/2013	20.00	ND	91.85	71.85	NA	NA	NA		
	7/23/2013	21.10	ND	91.85	70.75	NA	NA	NA		
	8/2/2013	20.68	ND	91.85	71.17	NA	NA	NA		
	8/16/2013	27.82	ND	91.85	64.03	NA	NA	NA		
	9/10/2013	21.78	ND	91.85	70.07	NA	NA	NA	System off: water level study	
	9/16/2013	21.05	ND	91.85	70.80	NA	NA	NA		
	10/24/2013	21.62	ND	91.85	70.23	NA	NA	NA		
	11/6/2013	20.98	ND	91.85	70.87	NA	NA	NA		
	11/7/2013	19.79	ND	91.85	72.06	NA	NA	NA	System off for sampling	
	12/4/2013	23.29	ND	91.85	68.56	NA	NA	NA		
	1/13/2014	19.67	ND	91.85	72.18	NA	NA	NA		
	2/10/2014	20.05	ND	91.85	71.80	NA	NA	NA		
	2/11/2014	19.88	ND	91.85	71.97	NA	NA	NA		
	3/13/2014	18.41	ND	91.85	73.44	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	4/9/2014	18.93	ND	91.85	72.92	NA	NA	NA		
	5/21/2014	20.16	ND	91.85	71.69	NA	NA	NA		
	6/4/2014	21.00	ND	91.85	70.85	NA	NA	NA		
	7/1/2014	21.17	ND	91.85	70.68	NA	NA	NA		
	8/14/2014	24.05	ND	91.85	67.80	NA	NA	NA		
	8/15/2014	22.70	ND	91.85	69.15	NA	NA	NA		
	9/10/2014	31.12	ND	91.85	60.73	NA	NA	NA		
	10/8/2014	25.22	ND	91.85	66.63	NA	NA	NA		
	11/5/2014	22.51	ND	91.85	69.34	NA	NA	NA	System off for sampling	
	12/4/2014	21.01	ND	91.85	70.84	NA	NA	NA		
	1/7/2015	20.72	ND	91.85	71.13	NA	NA	NA		
	2/25/2015	23.06	ND	91.85	68.79	NA	NA	NA		
TP-1	12/10/2012	11.04	ND	NM	NA	NA	NA	NA		NA
	12/20/2012	14.32	ND	NM	NA	NA	NA	NA		0.06
	12/24/2012	13.60	ND	NM	NA	NA	NA	NA		0.06
	1/4/2013	14.75	ND	NM	NA	NA	NA	NA		0.04
	1/8/2013	14.98	ND	NM	NA	NA	NA	NA		0.05
	1/15/2013	14.10	ND	NM	NA	NA	NA	NA		0.08
	1/25/2013	12.49	ND	NM	NA	NA	NA	NA		
	1/29/2013	12.04	ND	NM	NA	NA	NA	NA		
	2/7/2013	12.73	ND	NM	NA	NA	NA	NA		
	2/14/2013	12.54	ND	NM	NA	NA	NA	NA		
	2/22/2013	12.94	ND	NM	NA	NA	NA	NA		
	2/27/2013	12.62	ND	NM	NA	NA	NA	NA		
	3/7/2013	12.98	ND	NM	NA	NA	NA	NA		
	4/18/2013	13.85	ND	NM	NA	NA	NA	NA		
	5/29/2013	13.92	ND	NM	NA	NA	NA	NA		
	5/31/2013	13.42	ND	NM	NA	NA	NA	NA		
	6/14/2013	11.02	ND	NM	NA	NA	NA	NA		
	7/23/2013	10.54	ND	NM	NA	NA	NA	NA		
	8/2/2013	9.80	ND	NM	NA	NA	NA	NA		
	8/13/2013	11.20	ND	NM	NA	NA	NA	NA		
	9/3/2013	9.35	ND	NM	NA	NA	NA	NA	System off: water level study	
	9/10/2013	9.64	ND	NM	NA	NA	NA	NA	System off: water level study	
	9/16/2013	11.80	ND	NM	NA	NA	NA	NA		
	10/24/2013	11.50	ND	NM	NA	NA	NA	NA		
	11/6/2013	11.85	ND	NM	NA	NA	NA	NA		
	11/7/2013	11.70	ND	NM	NA	NA	NA	NA	System off for sampling	
	12/4/2013	12.54	ND	NM	NA	NA	NA	NA		
	1/13/2014	11.92	ND	NM	NA	NA	NA	NA		
	2/10/2014	11.27	ND	NM	NA	NA	NA	NA		
	2/11/2014	11.22	ND	NM	NA	NA	NA	NA		
	3/13/2014	10.12	ND	NM	NA	NA	NA	NA		
	4/9/2014	10.19	ND	NM	NA	NA	NA	NA		
	5/22/2014	10.20	ND	NM	NA	NA	NA	NA		
	6/4/2014	10.31	ND	NM	NA	NA	NA	NA		
	7/1/2014	11.41	ND	NM	NA	NA	NA	NA		
	8/14/2014	11.27	ND	NM	NA	NA	NA	NA		
	8/15/2014	11.32	ND	NM	NA	NA	NA	NA		
	9/10/2014	12.01	ND	NM	NA	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	10/8/2014	11.56	ND	NM	NA	NA	NA	NA		
	11/5/2014	11.56	ND	NM	NA	NA	NA	NA		
	11/7/2014	12.05	ND	NM	NA	NA	NA	NA		
	12/4/2014	12.10	ND	NM	NA	NA	NA	NA		
	1/7/2015	11.85	ND	NM	NA	NA	NA	NA		0
	2/25/2015	10.85	ND	NM	NA	NA	NA	NA		
TP-2	12/10/2012	11.37	ND	NM	NA	NA	NA	NA		NA
	12/20/2012	15.24	ND	NM	NA	NA	NA	NA		0.06
	12/24/2012	14.51	ND	NM	NA	NA	NA	NA		0.05
	1/4/2013	15.68	ND	NM	NA	NA	NA	NA		0.07
	1/8/2013	15.89	ND	NM	NA	NA	NA	NA		0.06
	1/15/2013	15.03	ND	NM	NA	NA	NA	NA		0.10
	1/25/2013	13.41	ND	NM	NA	NA	NA	NA		
	1/29/2013	12.97	ND	NM	NA	NA	NA	NA		
	2/7/2013	13.63	ND	NM	NA	NA	NA	NA		0.06
	2/14/2013	13.46	ND	NM	NA	NA	NA	NA		0.04
	2/22/2013	13.84	ND	NM	NA	NA	NA	NA		
	2/27/2013	13.53	ND	NM	NA	NA	NA	NA		0.08
	3/7/2013	13.72	ND	NM	NA	NA	NA	NA		0.04
	4/18/2013	14.75	ND	NM	NA	NA	NA	NA		0.02
	5/29/2013	14.81	ND	NM	NA	NA	NA	NA		
	5/31/2013	14.34	ND	NM	NA	NA	NA	NA		0.03
	6/14/2013	11.97	ND	NM	NA	NA	NA	NA		
	7/23/2013	11.47	ND	NM	NA	NA	NA	NA		
	8/2/2013	10.73	ND	NM	NA	NA	NA	NA		
	8/13/2013	12.13	ND	NM	NA	NA	NA	NA		
	9/3/2013	10.30	ND	NM	NA	NA	NA	NA	System off: water level study	
	9/10/2013	10.58	ND	NM	NA	NA	NA	NA	System off: water level study	
	9/16/2013	12.73	ND	NM	NA	NA	NA	NA		
	10/24/2013	12.43	ND	NM	NA	NA	NA	NA		
	11/6/2013	12.78	ND	NM	NA	NA	NA	NA		0.0
	11/7/2013	12.62	ND	NM	NA	NA	NA	NA	System off for sampling	
	12/4/2013	13.44	ND	NM	NA	NA	NA	NA		
	1/13/2014	12.84	ND	NM	NA	NA	NA	NA		0.0
	2/10/2014	12.18	ND	NM	NA	NA	NA	NA		
	2/11/2014	12.14	ND	NM	NA	NA	NA	NA		
	3/13/2014	11.07	ND	NM	NA	NA	NA	NA		0.0
	4/9/2014	11.11	ND	NM	NA	NA	NA	NA		
	5/22/2014	11.84	ND	NM	NA	NA	NA	NA		
	6/4/2014	12.24	ND	NM	NA	NA	NA	NA		
	7/1/2014	12.32	ND	NM	NA	NA	NA	NA		0.0
	8/14/2014	12.20	ND	NM	NA	NA	NA	NA		0.0
	8/15/2014	12.25	ND	NM	NA	NA	NA	NA		
	9/10/2014	12.94	ND	NM	NA	NA	NA	NA		
	10/8/2014	12.49	ND	NM	NA	NA	NA	NA		0.02
	11/5/2014	12.49	ND	NM	NA	NA	NA	NA		
	11/7/2014	12.05	ND	NM	NA	NA	NA	NA		
	12/4/2014	12.90	ND	NM	NA	NA	NA	NA		
	1/7/2015	12.76	ND	NM	NA	NA	NA	NA		0
	2/25/2015	11.78	ND	NM	NA	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
TP-3	12/10/2012	12.72	ND	NM	NA	NA	NA	NA		NA
	12/20/2012	15.96	ND	NM	NA	NA	NA	NA		0.05
	12/24/2012	15.23	ND	NM	NA	NA	NA	NA		0.04
	1/4/2013	16.40	ND	NM	NA	NA	NA	NA		0.08
	1/8/2013	16.60	ND	NM	NA	NA	NA	NA		0.08
	1/15/2013	15.73	ND	NM	NA	NA	NA	NA		0.10
	1/25/2013	14.13	ND	NM	NA	NA	NA	NA		
	1/29/2013	13.67	ND	NM	NA	NA	NA	NA		
	2/7/2013	14.37	ND	NM	NA	NA	NA	NA		0.05
	2/14/2013	14.17	ND	NM	NA	NA	NA	NA		0.05
	2/22/2013	14.57	ND	NM	NA	NA	NA	NA		
	2/27/2013	14.27	ND	NM	NA	NA	NA	NA		0.17
	3/7/2013	14.49	ND	NM	NA	NA	NA	NA		0.05
	4/18/2013	15.49	ND	NM	NA	NA	NA	NA		0.02
	5/29/2013	15.56	ND	NM	NA	NA	NA	NA		
	5/31/2013	15.06	ND	NM	NA	NA	NA	NA		0.04
	6/14/2013	12.67	ND	NM	NA	NA	NA	NA		
	7/23/2013	12.19	ND	NM	NA	NA	NA	NA		
	8/2/2013	11.43	ND	NM	NA	NA	NA	NA		
	8/13/2013	12.89	ND	NM	NA	NA	NA	NA		
	9/3/2013	11.02	ND	NM	NA	NA	NA	NA	System off: water level study	
	9/10/2013	11.29	ND	NM	NA	NA	NA	NA	System off: water level study	
	9/16/2013	13.44	ND	NM	NA	NA	NA	NA		
	10/24/2013	13.18	ND	NM	NA	NA	NA	NA		
	11/6/2013	14.51	ND	NM	NA	NA	NA	NA		0.0
	11/7/2013	13.37	ND	NM	NA	NA	NA	NA	System off for sampling	
	12/4/2013	14.17	ND	NM	NA	NA	NA	NA		
	1/13/2014	13.55	ND	NM	NA	NA	NA	NA		0.0
	2/10/2014	12.92	ND	NM	NA	NA	NA	NA		
	2/11/2014	12.88	ND	NM	NA	NA	NA	NA		
	3/13/2014	11.99	ND	NM	NA	NA	NA	NA		0.0
	4/9/2014	11.86	ND	NM	NA	NA	NA	NA		
	5/22/2014	11.12	ND	NM	NA	NA	NA	NA		
	6/4/2014	12.11	ND	NM	NA	NA	NA	NA		0
	7/1/2014	13.05	ND	NM	NA	NA	NA	NA		0.0
	8/14/2014	12.94	ND	NM	NA	NA	NA	NA		0.0
	8/15/2014	12.98	ND	NM	NA	NA	NA	NA		
	9/10/2014	13.69	ND	NM	NA	NA	NA	NA		
	10/8/2014	NG	ND	NM	NA	NA	NA	NA		
	11/5/2014	13.21	ND	NM	NA	NA	NA	NA		
	11/7/2014	12.77	ND	NM	NA	NA	NA	NA		
	12/4/2014	13.77	ND	NM	NA	NA	NA	NA		
	1/7/2015	13.52	ND	NM	NA	NA	NA	NA		0
	2/25/2015	12.53	ND	NM	NA	NA	NA	NA		
TP-4	12/10/2012	12.82	ND	NM	NA	NA	NA	NA		NA
	12/20/2012	15.12	ND	NM	NA	NA	NA	NA		0.06
	12/24/2012	14.38	ND	NM	NA	NA	NA	NA		0.05
	1/4/2013	15.55	ND	NM	NA	NA	NA	NA		0.05
	1/8/2013	15.76	ND	NM	NA	NA	NA	NA		0.06
	1/15/2013	14.91	ND	NM	NA	NA	NA	NA		0.09

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	1/25/2013	13.29	ND	NM	NA	NA	NA	NA		
	1/29/2013	12.85	ND	NM	NA	NA	NA	NA		
	2/7/2013	13.53	ND	NM	NA	NA	NA	NA		
	2/14/2013	13.35	ND	NM	NA	NA	NA	NA		
	2/22/2013	13.75	ND	NM	NA	NA	NA	NA		
	2/27/2013	13.42	ND	NM	NA	NA	NA	NA		
	3/7/2013	13.65	ND	NM	NA	NA	NA	NA		
	4/18/2013	14.65	ND	NM	NA	NA	NA	NA		
	5/29/2013	14.72	ND	NM	NA	NA	NA	NA		
	5/31/2013	14.22	ND	NM	NA	NA	NA	NA		
	6/14/2013	11.85	ND	NM	NA	NA	NA	NA		
	7/23/2013	11.34	ND	NM	NA	NA	NA	NA		
	8/2/2013	10.61	ND	NM	NA	NA	NA	NA		
	8/13/2013	12.00	ND	NM	NA	NA	NA	NA		
	9/3/2013	10.16	ND	NM	NA	NA	NA	NA	System off: water level study	
	9/10/2013	10.46	ND	NM	NA	NA	NA	NA	System off: water level study	
	9/16/2013	12.60	ND	NM	NA	NA	NA	NA		
	10/24/2013	12.30	ND	NM	NA	NA	NA	NA		
	11/6/2013	12.65	ND	NM	NA	NA	NA	NA		
	11/7/2013	12.56	ND	NM	NA	NA	NA	NA	System off for sampling	
	12/4/2013	13.33	ND	NM	NA	NA	NA	NA		
	1/13/2014	12.72	ND	NM	NA	NA	NA	NA		
	2/10/2014	12.02	ND	NM	NA	NA	NA	NA		
	2/11/2014	12.01	ND	NM	NA	NA	NA	NA		
	3/13/2014	11.00	ND	NM	NA	NA	NA	NA		
	4/9/2014	11.02	ND	NM	NA	NA	NA	NA		
	5/22/2014	11.02	ND	NM	NA	NA	NA	NA		
	6/4/2014	12.11	ND	NM	NA	NA	NA	NA		
	7/1/2014	12.22	ND	NM	NA	NA	NA	NA		
	8/14/2014	12.10	ND	NM	NA	NA	NA	NA		
	8/15/2014	12.12	ND	NM	NA	NA	NA	NA		
	9/10/2014	12.82	ND	NM	NA	NA	NA	NA		
	10/8/2014	12.34	ND	NM	NA	NA	NA	NA		
	11/5/2014	12.35	ND	NM	NA	NA	NA	NA		
	11/7/2014	11.93	ND	NM	NA	NA	NA	NA		
	12/4/2014	12.90	ND	NM	NA	NA	NA	NA		
	1/7/2015	12.66	ND	NM	NA	NA	NA	NA		0
	2/25/2015	11.71	ND	NM	NA	NA	NA	NA		
RW-1*	12/10/2012	12.50	ND	95.92	83.42	NA	NA	NA	Depth to Groundwater Pump intake: 14.5 ft.	
	2/25/2013	13.33	ND	95.92	82.59	NA	NA	NA		
	5/30/2013	13.88	ND	95.92	82.04	NA	NA	NA	Depth to Groundwater Pump intake: 15.5 ft.	
	11/22/2013	NG	ND	95.92	NA	NA	NA	NA	Depth to Groundwater Pump intake: 15.5 ft.	
	11/5/2014	13.90	ND	95.92	82.02	NA	NA	NA		
	12/4/2014	14.30	ND	95.92	81.62	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	1/7/2015	13.85	ND	95.92	82.07	NA	NA	NA		
RW-2*	12/10/2013	13.80	13.80	96.21	82.41	82.41	82.41	0.00 Sheen	Depth to Groundwater Pump intake: 15.0 ft.	
	2/25/2013	14.02	ND	96.21	82.19	NA	NA	NA	Mod. Odor	
	5/30/2013	14.74	ND	96.21	81.47	NA	NA	NA	Depth to Groundwater Pump intake: 17.3 ft.	
	11/22/2013	NG	ND	96.21	NA	NA	NA	NA	Depth to Groundwater Pump intake: 16.3 ft.	
	11/5/2014	15.15	ND	96.21	NA	NA	NA	NA		
	12/4/2014	16.05	ND	96.21	NA	NA	NA	NA		
	1/7/2015	15.81	ND	96.21	80.40	NA	NA	NA		
RW-3*	12/10/2013	14.55	ND	97.59	83.04	NA	NA	NA	Depth to Groundwater Pump intake: 16.5 ft.	
	2/25/2013	14.70	ND	97.59	82.89	NA	NA	NA		
	5/30/2013	15.78	ND	97.59	81.81	NA	NA	NA	Depth to Groundwater Pump intake: 17.8 ft.	
	11/22/2013	NG	ND	97.59	NA	NA	NA	NA	Depth to Groundwater Pump intake: 17.4 ft.	
	1/7/2015	15.64	ND	97.59	81.95	NA	NA	NA		
RW-4*	12/10/2013	14.15	14.15	97.38	83.23	83.23	83.23	0.00 Sheen	Depth to Groundwater Pump intake: 15.0 ft.	
	2/25/2013	14.91	14.91	97.38	82.47	82.47	82.47	0.00	Sheen	
	5/30/2013	15.95	14.91	97.38	81.43	82.47	82.47	0.00	Depth to Groundwater Pump intake: 18.35 ft.	
	11/22/2013	NG	ND	97.38	NA	NA	NA	NA	Depth to Groundwater Pump intake: 18.0 ft.	
	11/5/2014	16.30	ND	97.38	NA	NA	NA	NA		
	12/4/2014	16.20	ND	97.38	NA	NA	NA	NA		
	1/7/2015	16.25	ND	97.38	81.13	NA	NA	NA		
RW-5	12/10/2012	12.41	ND	96.21	83.80	NA	NA	NA		NA
	12/20/2012	15.80	ND	96.21	80.41	NA	NA	NA		7.0
	12/24/2012	15.02	ND	96.21	81.19	NA	NA	NA		3.9
	1/4/2013	16.39	ND	96.21	79.82	NA	NA	NA		8.0
	1/8/2013	16.66	ND	96.21	79.55	NA	NA	NA		8.0
	1/15/2013	15.86	ND	96.21	80.35	NA	NA	NA		
	1/25/2013	13.25	ND	96.21	82.96	NA	NA	NA		
	1/29/2013	13.04	ND	96.21	83.17	NA	NA	NA		
	2/7/2013	14.52	ND	96.21	81.69	NA	NA	NA		
	2/14/2013	15.11	ND	96.21	81.10	NA	NA	NA		> 5.0
	2/22/2013	13.35	ND	96.21	82.86	NA	NA	NA		
	2/27/2013	15.49	ND	96.21	80.72	NA	NA	NA		> 5.0
	3/7/2013	15.85	ND	96.21	80.36	NA	NA	NA		8.0

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	4/18/2013	15.56	ND	96.21	80.65	NA	NA	NA		7.5
	5/29/2013	14.04	ND	96.21	82.17	NA	NA	NA		
	5/31/2013	14.37	ND	96.21	81.84	NA	NA	NA		11.2
	6/14/2013	12.50	ND	96.21	83.71	NA	NA	NA		7.0
	9/3/2013	10.81	ND	96.21	85.40	NA	NA	NA	System off: water level study	
	9/10/2013	11.80	ND	96.21	84.41	NA	NA	NA	System off: water level study	
	11/6/2013	11.46	ND	96.21	84.75	NA	NA	NA		2.9
	1/13/2014	NG	ND	96.21	NG	NA	NA	NA		2.9
	2/10/2014	12.53	ND	96.21	83.68	NA	NA	NA		
	2/11/2014	12.23	ND	96.21	83.98	NA	NA	NA		1.6
	4/9/2014	11.91	ND	96.21	84.30	NA	NA	NA		2.8
	5/22/2014	11.04	ND	96.21	85.17	NA	NA	NA		
	6/4/2014	14.63	ND	96.21	81.58	NA	NA	NA		1.6
	7/1/2014	12.96	ND	96.21	83.25	NA	NA	NA		0.5
	8/14/2014	13.70	ND	96.21	82.51	NA	NA	NA		2.5
	8/15/2014	12.58	ND	96.21	83.63	NA	NA	NA		
	9/10/2014	13.55	ND	96.21	82.66	NA	NA	NA		3.5
	10/8/2014	13.32	ND	96.21	82.89	NA	NA	NA		9.8
	11/5/2014	12.90	ND	96.21	83.31	NA	NA	NA		3.00
	11/6/2014	13.57	ND	96.21	82.64	NA	NA	NA	System off for sampling	
	12/4/2014	13.85	ND	96.21	82.36	NA	NA	NA		4.0
	1/7/2015	13.51	ND	96.21	82.70	NA	NA	NA		2.8
	2/25/2015	12.00	ND	96.21	84.21	NA	NA	NA		
RW-6*	12/10/2013	13.33	ND	96.78	83.45	NA	NA	NA	Depth to Groundwater Pump intake: 15.5 ft.	
	2/25/2013	13.75	ND	96.78	83.03	NA	NA	NA		
	5/30/2013	14.76	ND	96.78	82.02	NA	NA	NA	Depth to Groundwater Pump intake: 18.45 ft.	
	11/22/2013	NG	ND	96.78	NA	NA	NA	NA	Depth to Groundwater Pump intake: 16.3 ft.	
	11/5/2014	15.15	ND	96.78	NA	NA	NA	NA		
	12/4/2014	15.60	ND	96.78	NA	NA	NA	NA		
	1/7/2015	15.85	ND	96.78	80.93	NA	NA	NA		
RW-7	12/10/2013	13.23	ND	96.60	83.37	NA	NA	NA		NA
	12/20/2012	16.09	ND	96.60	80.51	NA	NA	NA		13.0
	12/24/2012	16.28	ND	96.60	80.32	NA	NA	NA		15.0
	1/4/2013	17.22	ND	96.60	79.38	NA	NA	NA		21.0
	1/8/2013	17.60	ND	96.60	79.00	NA	NA	NA		21.0
	1/15/2013	16.96	ND	96.60	79.64	NA	NA	NA		
	1/25/2013	13.99	ND	96.60	82.61	NA	NA	NA		
	1/29/2013	13.79	ND	96.60	82.81	NA	NA	NA		
	2/7/2013	15.62	ND	96.60	80.98	NA	NA	NA		
	2/14/2013	15.73	ND	96.60	80.87	NA	NA	NA		> 5.0
	2/22/2013	14.08	ND	96.60	82.52	NA	NA	NA		
	2/27/2013	15.60	ND	96.60	81.00	NA	NA	NA		> 5.0
	3/7/2013	16.67	ND	96.60	79.93	NA	NA	NA		>20
	4/18/2013	16.52	ND	96.60	80.08	NA	NA	NA		>20

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	5/29/2013	14.73	ND	96.60	81.87	NA	NA	NA		
	5/31/2013	14.40	ND	96.60	82.20	NA	NA	NA		30.3
	6/14/2013	12.15	ND	96.60	84.45	NA	NA	NA		>20
	9/3/2013	11.63	ND	96.60	84.97	NA	NA	NA	System off: water level study	
	9/10/2013	12.70	ND	96.60	83.90	NA	NA	NA	System off: water level study	
	11/6/2013	13.91	ND	96.60	82.69	NA	NA	NA		14.2
	11/7/2013	13.30	ND	96.60	83.30	NA	NA	NA	System off for sampling	
	1/13/2014	NG	ND	96.60	NG	NA	NA	NA		19.4
	2/10/2014	13.36	ND	96.60	83.24	NA	NA	NA		14.5
	2/11/2014	13.00	ND	96.60	83.60	NA	NA	NA		
	3/13/2014	12.57	ND	96.60	84.03	NA	NA	NA		20.3
	4/9/2014	12.51	ND	96.60	84.09	NA	NA	NA		8.7
	5/22/2014	11.78	ND	96.60	84.82	NA	NA	NA		
	6/4/2014	13.15	ND	96.60	83.45	NA	NA	NA		> 5.0
	7/1/2014	13.27	ND	96.60	83.33	NA	NA	NA		5.2
	8/14/2014	14.20	ND	96.60	82.40	NA	NA	NA		16.4
	8/15/2014	13.38	ND	96.60	83.22	NA	NA	NA		
	9/10/2014	13.95	ND	96.60	82.65	NA	NA	NA		8.0
	10/8/2014	13.74	ND	96.60	82.86	NA	NA	NA		17.0
	11/5/2014	13.09	ND	96.60	83.51	NA	NA	NA		>5.0
	11/6/2014	13.38	ND	96.60	83.22	NA	NA	NA	System off for sampling	
	12/4/2014	14.00	ND	96.60	82.60	NA	NA	NA		>5.0
	1/7/2015	13.55	ND	96.60	83.05	NA	NA	NA		>5.0
	2/25/2015	12.85	ND	96.60	83.75	NA	NA	NA		
RW-8*	12/10/2013	13.60	ND	97.98	84.38	NA	NA	NA	Depth to Groundwater Pump intake: 13.75 ft.	
	2/25/2013	13.60	ND	97.98	84.38	NA	NA	NA		
	5/30/2013	16.05	ND	97.98	81.93	NA	NA	NA	Depth to Groundwater Pump intake: 15.4 ft.	
	11/22/2013	NG	ND	97.98	NA	NA	NA	NA	Depth to Groundwater Pump intake: 15.8 ft.	
	11/5/2014	17.26	ND	97.98	NA	NA	NA	NA		
	12/4/2014	18.14	ND	97.98	NA	NA	NA	NA		
	1/7/2015	18.05	ND	97.98	79.93	NA	NA	NA		
RW-9*	12/10/2012	7.30	ND	97.25	89.95	NA	NA	NA	Depth to Groundwater Pump intake: 9.5 ft.	
	2/25/2013	9.26	ND	97.25	87.99	NA	NA	NA		
	5/30/2013	11.34	ND	97.25	85.91	NA	NA	NA	Depth to Groundwater Pump intake: 11.0 ft.	
	11/22/2013	NG	ND	97.25	NA	NA	NA	NA	Depth to Groundwater Pump intake: 10.6 ft.	
	11/5/2014	15.75	ND	97.25	NA	NA	NA	NA		
	12/4/2014	15.79	ND	97.25	NA	NA	NA	NA		
	1/7/2015	15.94	ND	97.25	81.31	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
RW-10*	12/10/2013	13.87	13.87	96.98	83.11	83.11	83.11	0.00 Sheen	Depth to Groundwater Pump intake: 16.0 ft.	
	2/25/2013	16.19	ND	96.98	80.79	NA	NA	NA	Strong odor	
	5/30/2013	17.01	ND	96.98	79.97	NA	NA	NA	Depth to Groundwater Pump intake: 16.9 ft.	
	11/22/2013	NG	ND	96.98	NA	NA	NA	NA	Depth to Groundwater Pump intake: 17.4 ft.	
	1/7/2015	20.90	ND	96.98	76.08	NA	NA	NA		
RW-11*	12/10/2013	13.21	13.21	96.29	83.08	83.08	83.08	0.00 Sheen	Depth to Groundwater Pump intake: 15.0 ft.	
	2/25/2013	14.22	ND	96.29	82.07	NA	NA	NA		
	5/30/2013	15.40	ND	96.29	80.89	NA	NA	NA	Depth to Groundwater Pump intake: 17.3 ft.	
	11/22/2013	NG	ND	96.29	NA	NA	NA	NA	Depth to Groundwater Pump intake: 17.4 ft.	
	11/5/2014	14.90	ND	96.29	NA	NA	NA	NA		
	12/4/2014	15.11	ND	96.29	NA	NA	NA	NA		
	1/7/2015	15.34	ND	96.29	80.95	NA	NA	NA		
RW-12*	12/10/2013	13.70	ND	96.29	82.59	NA	NA	NA	Depth to Groundwater Pump intake: 14.5 ft.	
	2/25/2013	15.37	ND	96.78	81.41	NA	NA	NA		
	5/30/2013	16.00	ND	96.78	80.78	NA	NA	NA	Depth to Groundwater Pump intake: 16.9 ft.	
	11/22/2013	NG	ND	96.78	NA	NA	NA	NA	Depth to Groundwater Pump intake: 15.6 ft.	
	11/5/2014	16.65	ND	96.78	NA	NA	NA	NA		
	12/4/2014	17.20	ND	96.78	NA	NA	NA	NA		
	1/7/2015	17.70	ND	96.78	79.08	NA	NA	NA		
RW-13	12/10/2012	14.37	14.37	97.52	83.15	83.15	83.15	0.00	Sheen	NA
	12/20/2012	17.64	ND	97.52	79.88	NA	NA	NA		6.0
	12/24/2012	17.26	ND	97.52	80.26	NA	NA	NA		2.2
	1/4/2013	18.05	ND	97.52	79.47	NA	NA	NA		7.0
	1/8/2013	18.46	ND	97.52	79.06	NA	NA	NA		7.0
	1/15/2013	17.74	ND	97.52	79.78	NA	NA	NA		
	1/25/2013	14.88	ND	97.52	82.64	NA	NA	NA		
	1/29/2013	14.70	ND	97.52	82.82	NA	NA	NA		
	2/7/2013	16.54	ND	97.52	80.98	NA	NA	NA		2.2
	2/14/2013	16.82	ND	97.52	80.70	NA	NA	NA		> 5.0
	2/22/2013	14.95	ND	97.52	82.57	NA	NA	NA		
	2/27/2013	17.78	ND	97.52	79.74	NA	NA	NA		> 5.0
	3/7/2013	17.90	ND	97.52	79.62	NA	NA	NA		8.3
	4/18/2013	17.46	ND	97.52	80.06	NA	NA	NA		4.0
	5/29/2013	15.61	ND	97.52	81.91	NA	NA	NA		

Table 1 - Well Gauging Summary
Gasoline Fueling Station – Royal Farms No. 96
500 Mechanic Valley Road, North East, Maryland 21901

Well ID	Date	Depth to Water	Depth to LPH	TOC Elevation	Water Elevation	LPH Elevation	Corrected Water Elevation	LPH Thickness	Comments	Vacuum Pressure
	5/31/2013	16.99	ND	97.52	80.53	NA	NA	NA		3.7
	6/14/2013	14.48	ND	97.52	83.04	NA	NA	NA		4.0
	9/3/2013	12.52	ND	97.52	85.00	NA	NA	NA	System off: water level study	
	9/10/2013	14.00	ND	97.52	83.52	NA	NA	NA	System off: water level study	
	11/6/2013	15.90	ND	97.52	81.62	NA	NA	NA		1.1
	11/7/2013	14.17	ND	97.52	83.35	NA	NA	NA	System off for sampling	
	1/13/2014	NG	ND	97.52	NG	NA	NA	NA		2.8
	2/10/2014	14.31	ND	97.52	83.21	NA	NA	NA		0.5
	2/11/2014	13.89	ND	97.52	83.63	NA	NA	NA		
	3/13/2014	14.66	ND	97.52	82.86	NA	NA	NA		0.8
	4/9/2014	14.08	ND	97.52	83.44	NA	NA	NA		0.8
	5/22/2014	12.65	ND	97.52	84.87	NA	NA	NA		
	6/4/2014	15.12	ND	97.52	82.40	NA	NA	NA		2.0
	7/1/2014	15.20	ND	97.52	82.32	NA	NA	NA		10.8
	8/14/2014	15.97	ND	97.52	81.55	NA	NA	NA		2.9
	8/15/2014	14.32	ND	97.52	83.20	NA	NA	NA		
	9/10/2014	15.75	ND	97.52	81.77	NA	NA	NA		2.1
	10/8/2014	15.54	ND	97.52	81.98	NA	NA	NA		5.0
	11/5/2014	14.83	ND	97.52	82.69	NA	NA	NA		3.5
	11/6/2014	14.49	ND	97.52	83.03	NA	NA	NA	System off for sampling	
	12/4/2014	15.90	ND	97.52	81.62	NA	NA	NA		2.4
	1/7/2015	15.53	ND	97.52	81.99	NA	NA	NA		3.0
	2/25/2015	13.78	ND	97.52	83.74	NA	NA	NA		

* - Well used for recovery by the VE/GE System
LPH = Liquid Phase Hydrocarbon
TOC = Top of Casing Elevation
NA = Not Applicable
ND = None Detected
NG = Not Gauged
NM = Not Measured
Vacuum pressure readings measured in inches of water
> symbol for vacuum readings indicates the reading exceeded the limits of the gauging equipment.
Corrected water elevation based on LPH density of 0.7 grams per milliliter

Table 2 - Historical Monitoring/Recovery Well Groundwater Analytical Results
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Well No.	Date	B	T	E	X	Total BTEX	MTBE	Naph	IBP	PCE	TCE	1,2-DCE	Acetone	Carbon Disulfide	TPH GRO	TPH DRO
MW-1R	12/15/2011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	3/15/2012	0.001	0.001	0.001	55	55	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	6/21/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/6/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/16/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/21/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/30/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/13/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/6/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
MW-2	6/8/2011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	NS	NS
	7/26/2011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/4/2011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/15/2011	**31**	7.2	0.001	27.8	66	0.001	**12**	0.001	0.001	0.001	0.001	0.001	0.001	**12**	0.001
	12/15/2011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	3/15/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	6/21/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/6/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/16/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/21/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/30/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/13/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.54**
	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/6/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.20**
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.30**
MW-3	6/8/2011	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	0.001	0.001	800,000	800,000	800,000	800,000
	7/26/2011	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	0.001	0.001	800,000	800,000	800,000	800,000
	8/4/2011	**730**	**2700**	**800**	4800	9030	0.001	**400**	**66**	0.001	0.001	0.001	0.001	0.001	**13**	**6.6**
	9/15/2011	100,000	100,000	100,000	100,000	100,000	100,000	100,000	800,000	800,000	0.001	0.001	800,000	800,000	100,000	100,000
	12/15/2012	100,000	100,000	100,000	100,000	100,000	100,000	100,000	800,000	800,000	0.001	0.001	800,000	800,000	100,000	100,000
	3/15/2012	**3700**	**8000**	660	2190	14550	0.001	**950**	**71**	0.001	0.001	0.001	0.001	0.001	**5.8**	**10**
	6/21/2012	**750**	**2100**	260	1900	5010	0.001	**150**	32	0.001	0.001	0.001	0.001	0.001	**5.3**	**2.7**
	9/6/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/12/2012	Abandoned														
MW-4	8/4/2011	0.001	0.001	0.001	21.6	21.6	0.001	**18**	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/15/2011	0.001	5.1	0.001	7.1	12.2	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	12/15/2011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	3/15/2012	0.001	0.001	0.001	416.1	416.1	0.001	**9.7**	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	6/21/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/6/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/15/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/21/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/29/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/13/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/6/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
MW-5	8/4/2011	0.001	6.6	0.001	8.2	14.8	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/15/2011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	12/15/2011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	3/15/2012	0.001	0.001	0.001	110	110	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	6/21/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/6/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/15/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/21/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/29/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/13/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/6/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.21**
MW-6	8/4/2011	0.001	9	0.001	0.001	9	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/15/2011	**9.3**	29	0.001	21.7	60	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	12/15/2011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	3/15/2012	0.001	0.001	0.001	150	150	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	6/21/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/6/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.3**
	11/16/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.21**
	2/22/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.22**
	5/30/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/13/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.29**

Table 2 - Historical Monitoring/Recovery Well Groundwater Analytical Results
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Well No.	Date	B	T	E	X	Total BTEX	MTBE	Naph	IBP	PCE	TCE	1,2-DCE	Acetone	Carbon Disulfide	TPH GRO	TPH DRO
	2/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/7/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.43**
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.24**
MW-7	8/4/2011	**530**	860	64	420	1874	16	**27**	0.001	0.001	0.001	0.001	0.001	0.001	**1.8**	**0.7**
	9/15/2011	**7200**	**12000**	**1100**	6500	26800	0.001	**310**	39	0.001	0.001	0.001	0.001	0.001	**15**	**2.4**
	12/15/2011	**740**	**1100**	83	370	2293	0.001	**13**	0.001	0.001	0.001	0.001	0.001	0.001	**0.8**	0.001
	3/15/2012	**1000**	**2000**	170	**120500**	123670	0.001	**35**	11	0.001	0.001	0.001	0.001	0.001	**1.6**	**1.5**
	6/21/2012	**200**	370	24	155	749	0.001	**7.8**	0.001	0.001	0.001	0.001	0.001	0.001	**0.8**	0.001
	9/6/2012	4.7	0.001	0.001	0.001	4.7	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/16/2012	**714**	**5950**	467	5200	12331	0.001	**129**	0.001	0.001	0.001	0.001	0.001	0.001	**13.3**	**2.49**
	2/25/2013	0.001	0.001	0.001	9.6	9.6	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.5**
	5/30/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/13/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/6/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/10/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/14/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/5/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/24/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
MW-8	8/4/2011	**5.2**	12	0.001	7	24.2	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/15/2011	**11**	11	6.2	44	72.2	0.001	**26**	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	12/15/2011	**18**	0.001	0.001	6.9	24.9	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	3/15/2012	**28**	5.2	0.001	2300	2333.2	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	6/21/2012	**6.2**	0.001	0.001	0.001	6.2	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/6/2012	**33.2**	0.001	0.001	0.001	33.2	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.27**
	11/16/2012	3.4	0.001	0.001	0.001	3.4	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.20**
	2/22/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.27**
	5/30/2013	**18.6**	0.001	0.001	0.001	18.6	2.8	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.34**
	8/13/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.26**
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/7/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.21**
MW-9	12/15/2011	**270**	5.4	0.001	70	345.4	0.001	0.001	12	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	3/15/2012	**90**	0.001	0.001	4700	4790	**25**	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	6/21/2012	**77**	0.001	0.001	26	103	**26**	**6.3**	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/6/2012	**47.5**	0.001	0.001	3.9	51.4	14.7	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.219**	**2.82**
	11/16/2012	2.6	0.001	0.001	0.001	2.6	9.2	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**1.60**
	2/22/2013	0.001	0.001	0.001	0.001	0.001	7.00	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**1.22**
	5/30/2013	**9.0**	0.001	7.6	23.3	39.9	9.9	**3.7**	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**3.13**
	8/13/2013	0.001	0.001	0.001	8.5	8.5	5.5	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**1.62**
	11/7/2013	0.001	0.001	0.001	2.5	2.5	0.001	**2.2**	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**3.63**
	2/11/2014	0.001	0.001	0.001	9.4	9.4	5.1	**2.8**	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**1.23**
	5/22/2014	3.4	0.001	8.8	25.4	37.6	7.1	**4.3**	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**1.62**
	8/15/2014	2.4	0.001	0.001	4.2	6.6	5.6	**4.4**	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**1.19**
	11/7/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**1.26**
	2/25/2015	0.001	0.001	0.001	0.001	0.001	3.4	0.001	0.001	0.001	0.001	0.001	10.3	0.001	0.001	**1.71**
MW-10	12/15/2011	**9.2**	0.001	0.001	0.001	9.2	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	3/15/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	6/21/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/6/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/15/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/21/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/30/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/13/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/6/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.34**
MW-11	12/15/2011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	3/15/2012	0.001	0.001	0.001	2500	2500	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	6/21/2012	**32**	0.001	0.001	11	43	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/6/2012	**19**	0.001	0.001	2.9	21.9	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/16/2012	**25.9**	0.001	0.001	3.1	29	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/22/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/29/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/13/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.22**
	11/7/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
MW-12	12/15/2011	**110**	0.001	0.001	70	180	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	3/15/2012	0.001	0.001	0.001	0.001	0.001	9	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	6/21/2012	0.001	0.001	0.001	0.001	0.001	19	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/6/2012	0.001	0.001	0.001	0.001	0.001	4.9	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.21**
	11/16/2012	0.001	0.001	0.001	0.001	0.001	3.8	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

Table 2 - Historical Monitoring/Recovery Well Groundwater Analytical Results
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Well No.	Date	B	T	E	X	Total BTEX	MTBE	Naph	IBP	PCE	TCE	1,2-DCE	Acetone	Carbon Disulfide	TPH GRO	TPH DRO
	2/22/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/29/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/13/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/6/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	3/18/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
MW-13	12/15/2011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	3/15/2012	0.001	11	0.001	380	391	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	6/21/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/6/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/15/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/21/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/29/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/13/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.21**
	2/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/6/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
MW-14	12/15/2011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	3/15/2012	0.001	0.001	0.001	66	66	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	6/21/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/6/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/15/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/21/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/29/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/13/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/6/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.53**
MW-15	12/15/2011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	3/15/2012	0.001	0.001	0.001	90	90	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	6/21/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/6/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/16/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/21/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/30/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/13/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/6/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
MW-16	12/15/2011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	3/15/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	6/21/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/6/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/16/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/21/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/29/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/13/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/7/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.55**
MW-10-D	11/15/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**37.9**	0.001	0.001	0.001	0.001	0.001	0.001
	2/21/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	4.2	0.001	0.001	0.001	0.001	0.001	**0.28**
	5/30/2013	0.001	0.001	0.001	0.001	0.001	3.5	0.001	0.001	**22.8**	0.001	0.001	0.001	0.001	0.001	0.001
MW-10D Shallow	8/16/2013	0.001	0.001	0.001	0.001	0.001	2.6	0.001	0.001	**26.7**	0.001	0.001	0.001	0.001	0.001	0.001
	11/8/2013	0.001	0.001	0.001	0.001	0.001	2.8	0.001	0.001	**19.7**	0.001	0.001	0.001	0.001	0.001	**0.25**
	2/12/2014	0.001	0.001	0.001	0.001	0.001	2.4	0.001	0.001	**21.6**	0.001	0.001	0.001	0.001	0.001	0.001
	5/22/2014	0.001	0.001	0.001	0.001	0.001	3.2	0.001	0.001	**17.5**	0.001	0.001	0.001	0.001	0.001	0.28
	2/25/2015	0.001	0.001	0.001	0.001	0.001	2.4	0.001	0.001	**9.0**	0.001	0.001	0.001	0.001	0.001	0.001
MW-10D Middle	8/16/2013	0.001	0.001	0.001	0.001	0.001	3.2	0.001	0.001	**6.7**	0.001	0.001	0.001	0.001	0.001	0.001
	11/8/2013	0.001	0.001	0.001	0.001	0.001	2.8	0.001	0.001	**5.5**	0.001	0.001	0.001	0.001	0.001	0.001
	2/12/2014	0.001	0.001	0.001	0.001	0.001	3.0	0.001	0.001	2.6	0.001	0.001	0.001	0.001	0.001	0.001
	5/22/2014	0.001	0.001	0.001	0.001	0.001	3.7	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/15/2014	0.001	0.001	0.001	0.001	0.001	3.1	0.001	0.001	2.9	0.001	0.001	0.001	0.001	0.001	0.001
	11/7/2014	0.001	0.001	0.001	0.001	0.001	3.8	0.001	0.001	2.4	0.001	0.001	0.001	0.001	0.001	0.001
	2/25/2015	0.001	0.001	0.001	0.001	0.001	2.7	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
MW10D Deep	8/16/2013	0.001	0.001	0.001	0.001	0.001	3.5	0.001	0.001	3.5	0.001	0.001	0.001	0.001	0.001	0.001
	11/8/2013	0.001	0.001	0.001	0.001	0.001	3.6	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	NS
	2/12/2014	0.001	0.001	0.001	0.001	0.001	3.3	0.001	0.001	4.9	0.001	0.001	0.001	0.001	0.001	0.001
	5/22/2014	0.001	0.001	0.001	0.001	0.001	4.0	0.001	0.001	3.1	0.001	0.001	0.001	0.001	0.001	0.001

Table 2 - Historical Monitoring/Recovery Well Groundwater Analytical Results
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Well No.	Date	B	T	E	X	Total BTEX	MTBE	Naph	IBP	PCE	TCE	1,2-DCE	Acetone	Carbon Disulfide	TPH GRO	TPH DRO
	2/25/2015	0.001	0.001	0.001	0.001	0.001	2.8	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
MW-12-D	11/15/2012	0.001	0.001	0.001	0.001	0.001	2.6	0.001	0.001	**7.2**	0.001	0.001	0.001	0.001	0.001	**0.25**
	2/22/2013	0.001	2.3	0.001	0.001	2.3	3.3	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.41**
	5/29/2013	0.001	0.001	0.001	0.001	0.001	4.6	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.32**
MW-12D Shallow	8/16/2013	0.001	0.001	0.001	0.001	0.001	2.6	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.34**
	11/8/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.42**
	2/12/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.29**
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
MW-12D (Mid-1)	8/16/2013	0.001	0.001	0.001	0.001	0.001	11.7	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/8/2013	0.001	0.001	0.001	0.001	0.001	2.6	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.41**
	2/12/2014	0.001	0.001	0.001	0.001	0.001	2.00	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.27**
	5/22/2014	0.001	0.001	0.001	0.001	0.001	3.8	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
MW-12D (Mid-2)	8/16/2013	0.001	0.001	0.001	0.001	0.001	8.2	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/8/2013	0.001	0.001	0.001	0.001	0.001	7.5	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.26**
	2/12/2014	0.001	0.001	0.001	0.001	0.001	4.00	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.21**
	5/22/2014	0.001	0.001	0.001	0.001	0.001	4.2	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/25/2015	0.001	0.001	0.001	0.001	0.001	3.6	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
MW-12D Deep	8/16/2013	0.001	0.001	0.001	0.001	0.001	12.8	0.001	0.001	**7.6**	0.001	0.001	0.001	0.001	0.001	**0.30**
	11/8/2013	0.001	0.001	0.001	0.001	0.001	13.2	0.001	0.001	**6.5**	2.3	0.001	0.001	0.001	0.001	0.001
	2/12/2014	0.001	0.001	0.001	0.001	0.001	12.8	0.001	0.001	0.001	4.1	0.001	0.001	0.001	0.001	0.001
	5/22/2014	0.001	0.001	0.001	0.001	0.001	12	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/15/2014	0.001	0.001	0.001	0.001	0.001	13.2	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/7/2014	0.001	0.001	0.001	0.001	0.001	14.9	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/25/2015	0.001	0.001	0.001	0.001	0.001	10.6	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
MW-13-D	11/15/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/21/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/29/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
MW-13D Shallow	8/16/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/8/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	2.3	0.001	0.001	0.001	**0.31**
	2/12/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/7/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
MW-13D Deep	8/16/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/8/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/12/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.22**
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/15/2014	0.001	0.001	0.001	0.001	0.001	2.0	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/7/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/25/2015	0.001	0.001	0.001	0.001	0.001	4.5	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
RW-1	8/4/2011	**260**	700	240	1360	2560	0.001	**250**	26	0.001	0.001	0.001	0.001	0.001	**5.3**	**2.1**
	9/15/2011	**2600**	**9400**	**4100**	**24200**	40300	0.001	**2600**	**240**	0.001	0.001	0.001	0.001	0.001	**36**	**17**
	12/15/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/15/2012	**660**	**2700**	560	**771400**	775320	0.001	**2500**	**130**	0.001	0.001	0.001	0.001	0.001	**20**	**7**
	11/19/2012	**317**	**1480**	196	1540	3533	0.001	**57.1**	0.001	0.001	0.001	0.001	0.001	0.001	**5.42**	**3.65**
	2/25/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.22**
	5/30/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/12/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	4.4	0.001	**1.09**
	11/6/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/10/2014	0.001	3.2	0.001	2.1	5.3	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.21**
	5/22/2014	0.001	2.3	0.001	2.1	4.4	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/5/2014	0.001	0..001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.41**
	3/4/2015	2.7	11.3	4.0	124.4	142.4	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.215**	**0.37**
RW-2	8/4/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/15/2011	**17300**	**30000**	**3800**	**17400**	68500	0.001	**3500**	**130**	0.001	0.001	0.001	0.001	0.001	**37**	**18**
	12/15/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/15/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/20/2012	**162**	972	165	2113	3412	0.001	**88.5**	0.001	0.001	0.001	0.001	116	0.001	**5.75**	**1.01**
	2/25/2013	**16.1**	31.3	3.7	282	333.1	0.001	**46.1**	0.001	0.001	0.001	0.001	0.001	0.001	**1.14**	**1.39**
	5/30/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.106**	**0.35**
	8/12/2013	**7.9**	35.7	5.1	38.9	87.6	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**144**	0.001
	11/6/2013	**31.4**	40.1	6.9	90.8	169.2	0.001	**16.8**	0.001	0.001	0.001	0.001	0.001	16.8	**0.248**	**0.59**
	2/10/2014	**6.7**	41.4	13.1	75.7	136.9	0.001	**28.1**	0.001	0.001	0.001	0.001	0.001	0.001	**0.167**	**0.43**
	5/22/2014	**27.9**	105	11.1	122.5	266.5	0.001	**21**	0.001	0.001	0.001	0.001	0.001	0.001	**0.313**	**0.49**
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	6.4	0.001	0.001
	11/5/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/24/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
RW-3	8/4/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/15/2011	**640**	**2300**	210	4200	7350	0.001	**450**	41	0.001	0.001	0.001	0.001	0.001	**14**	**12**
	12/15/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/15/2012	**93**	830	260	**260830**	262013	0.001	**870**	51	0.001	0.001	0.001	0.001	0.001	**9.0**	**6.3**
	11/20/2012	2.7	15.2	2.5	**30**	50.4	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.183**	0.001
	2/25/2013	4.2	17	93.4	207.4	322	0.001	**16.5**	0.001	0.001	0.001	0.001	0.001	0.001	**1.0**	**0.92**
	5/30/2013	0.001	0.001	0.001	6.2	6.2	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.35**
	8/12/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/6/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/10/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/22/2014	0.001	2.4	0.001	0.001	2.4	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/5/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

Table 2 - Historical Monitoring/Recovery Well Groundwater Analytical Results
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Well No.	Date	B	T	E	X	Total BTEX	MTBE	Naph	IBP	PCE	TCE	1,2-DCE	Acetone	Carbon Disulfide	TPH GRO	TPH DRO
	2/24/2015	2.6	0.001	0.001	0.001	2.6	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
RW-4	8/4/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/15/2011	**15400**	**25000**	**3300**	**15800**	59500	0.001	**2700**	**160**	0.001	0.001	0.001	0.001	0.001	**42**	**19**
	12/15/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/15/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/20/2012	**13100**	**29500**	**2140**	**15520**	60260	0.001	**558**	0.001	0.001	0.001	0.001	0.001	0.001	**67.2**	**9.12**
	2/25/2013	**14**	47.9	0.001	239.8	301.7	0.001	**47.6**	0.001	0.001	0.001	0.001	0.001	0.001	**3.49**	**3.25**
	5/30/2013	**11.8**	25.5	5.6	47.8	90.7	0.001	**6.5**	0.001	0.001	0.001	0.001	0.001	0.001	**0.323**	**0.69**
	8/12/2013	4.9	26.4	5.7	66.3	103.3	0.001	**4.0**	0.001	0.001	0.001	0.001	0.001	0.001	**0.148**	**0.27**
	11/6/2013	**192**	335	86.8	902	1515.8	0.001	**258.0**	0.001	0.001	0.001	0.001	48.3	0.001	**2.36**	**2.07**
	2/10/2014	**31.7**	132	19.3	131.3	314.3	0.001	**44.3**	0.001	0.001	0.001	0.001	0.001	0.001	**0.354**	**0.69**
	5/22/2014	46.3	181	22.9	208.8	459	0.001	32.5	0.001	0.001	0.001	0.001	0.001	0.001	**0.582**	**0.67**
	8/15/2014	**3.4**	14.1	**2.1**	13.1	32.7	0.001	**7.2**	0.001	0.001	0.001	0.001	0.001	0.001	**0.001**	**0.51**
	11/5/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/24/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	47.5	0.001	0.001	**0.20**
RW-5	8/4/2011	**113**	170	130	1140	1553	0.001	**310**	23	0.001	0.001	0.001	0.001	0.001	**2.6**	**1.6**
	9/15/2011	**190**	**2000**	370	1930	4490	0.001	**300**	49	0.001	0.001	0.001	0.001	0.001	**9.6**	**3.0**
	12/15/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/15/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/19/2012	**352**	0.001	97.3	0.001	449.3	0.001	**10.1**	0.001	0.001	0.001	0.001	0.001	0.001	**0.837**	**0.49**
	2/22/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/29/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/12/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.23**
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.22**
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/6/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
RW-6	8/4/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/15/2011	**5800**	**13000**	**1800**	**13200**	33800	0.001	**2800**	**100**	0.001	0.001	0.001	0.001	0.001	**26**	**7.3**
	12/15/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/15/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/20/2012	**332**	540	70.3	1166	2108.3	0.001	**101**	0.001	0.001	0.001	0.001	0.001	0.001	**4.98**	**2.31**
	2/25/2013	**21.2**	90.1	14.5	245.4	371.2	0.001	**35.2**	0.001	0.001	0.001	0.001	0.001	0.001	**0.911**	**0.78**
	5/30/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/12/2013	0.001	0.001	0.001	7.0	7.0	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/6/2013	0.001	3.6	0.001	10.5	14.1	0.001	0.001	0.001	0.001	0.001	0.001	0.001	8.9	0.001	**0.51**
	2/11/2014	**10.0**	148	31.5	505.0	694.5	0.001	**6.8**	2.1	0.001	0.001	0.001	0.001	0.001	**0.16**	**0.49**
	5/22/2014	0.001	10.5	2.3	21.5	34.3	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**151**	**0.558**	**11.5**
	8/15/2014	0.001	7.6	0.001	16.5	24.1	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**206**	**0.245**	**38.4**
	11/5/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**611**	33.6	**1.25**	**102**
	2/24/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	350	6.1	0.001	**6.01**
RW-7	12/15/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/15/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/20/2012	**5.2**	20.3	0.001	13	38.5	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/22/2013	**21.8**	0.001	14	92.5	128.3	0.001	**12.5**	0.001	0.001	0.001	0.001	0.001	0.001	**0.237**	**0.31**
	5/29/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/12/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/6/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
RW-8	12/15/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/15/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/19/2012	**2460**	**5990**	343	1895	10688	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**12.8**	**1.94**
	2/25/2013	**821**	**2800**	171	1137	4929	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**5.32**	**0.65**
	5/30/2013	0.001	3.5	0.001	2.0J	5.5	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/12/2013	**33.3**	290	20.7	84.8	428.8	0.001	**13.2**	0.001	0.001	0.001	0.001	0.001	26.6	**635**	**1.54**
	11/6/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**2.66**
	2/10/2014	4.6	312	40.6	372	729.2	0.001	**14.4**	0.001	0.001	0.001	0.001	0.001	0.001	**0.57**	**0.53**
	5/22/2014	**6.9**	93.5	29.9	301	431.3	0.001	**30.6**	0.001	0.001	0.001	0.001	12	0.001	**2.62**	**0.59**
	8/15/2014	0.001	12.5	3.1	27.2	42.8	0.001	**2.5**	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.26**
	11/5/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	5.2	0.001	0.001
	2/24/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
RW-9	12/15/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/15/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/19/2012	**74.5**	500	138	1629	2341.5	0.001	**99.1**	0.001	0.001	0.001	0.001	0.001	0.001	**2.88**	**1.94**
	2/25/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/30/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/12/2013	0.001	9.9	0.001	9.5	19.4	0.001	0.001	0.001	0.001	0.001	0.001	0.001	15.1	0.001	**0.39**
	11/6/2013	2.8	34.2	2.8	25.8	65.6	0.001	**2.7**	0.001	0.001	0.001	0.001	0.001	2.9	**0.111**	**0.46**
	2/10/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/22/2014	2.8	42.1	13.2	130.1	188.2	0.001	**11.3**	0.001	0.001	0.001	0.001	0.001	0.001	**0.193**	**0.26**
	8/15/2014	0.001	2.6	0.001	11.1	13.7	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/5/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.26**
	3/4/2015	2.4	0.001	0.001	0.001	2.4	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
RW-10	12/15/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/15/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/20/2012	**965**	**3200**	467	6200	10832	0.001	**157**	0.001	0.001	0.001	0.001	0.001	0.001	**15.3**	**5.05**
	2/25/2013	**33.5**	43.3	4.3	163.2	244.3	0.001	**2.8**	0.001	0.001	0.001	0.001	25.6	0.001	**0.599**	**1.74**
	5/30/2013	0.001	2.4	0.001	19.2	22.6	0.001	0.001	0.001	0.001	0.001	0.001	16.6	0.001	**0.241**	**1.13**

Table 2 - Historical Monitoring/Recovery Well Groundwater Analytical Results
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Well No.	Date	B	T	E	X	Total BTEX	MTBE	Naph	IBP	PCE	TCE	1,2-DCE	Acetone	Carbon Disulfide	TPH GRO	TPH DRO
	8/12/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	7.0	0.001	**0.28**
	11/6/2013	0.001	0.001	0.001	5.1	5.1	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.29**
	2/10/2014	**20.1**	137	25.2	168.8	351.1	0.001	**2.9**	2.3	0.001	0.001	0.001	0.001	0.001	**0.547**	**0.57**
	5/22/2014	**6.6**	17.2	4.7	39	67.5	0.001	**3.3**	0.001	0.001	0.001	0.001	0.001	0.001	**0.187**	**0.44**
	8/15/2014	**5.0**	8.2	0.001	11.6	24.8	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.33**
	11/5/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/24/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
RW-11	12/15/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/15/2012	**4200**	**7200**	**770**	2600	14770	0.001	**200**	65	0.001	0.001	0.001	0.001	0.001	**7.6**	**6.5**
	11/20/2012	**5930**	**19100**	**1250**	9290	35570	0.001	**409**	0.001	0.001	0.001	0.001	0.001	0.001	**37.9**	**4.71**
	2/25/2013	**1240**	**2820**	71.7	2649	6780.7	0.001	**151**	0.001	0.001	0.001	0.001	0.001	0.001	**7.76**	**3.35**
	5/30/2013	3.9	21.7	0.001	21.3	46.9	2.1	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.24**
	8/12/2013	**12**	39.3	3.7	95.0	150	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**197**	**0.34**
	11/6/2013	**805**	**5370**	**826**	5630	12631	0.001	**194**	0.001	0.001	0.001	0.001	0.001	0.001	**13.9**	**3.54**
	2/10/2014	**79.9**	438	86.6	613	1217.5	0.001	**24.3**	0.001	0.001	0.001	0.001	0.001	0.001	**0.992**	**0.8**
	5/22/2014	**67.8**	206	17.2	236.2	527.2	0.001	5.6	0.001	0.001	0.001	0.001	0.001	0.001	**0.645**	**0.39**
	8/15/2014	**26.8**	66.1	3.8	70.9	167.6	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.181**	**0.27**
	11/5/2014	**8.5**	0.001	0.001	0.001	8.5	0.001	0.001	0.001	0.001	0.001	0.001	0.001	4.4	**0.205**	**0.33**
	2/24/2015	**30**	2.4	0.001	0.001	32.4	0.001	0.001	0.001	0.001	0.001	0.001	0.001	18.1	0.001	**0.48**
RW-12	12/15/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/15/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/19/2012	**184**	838	47.9	976	2045.9	0.001	**26.3**	0.001	0.001	0.001	0.001	0.001	0.001	**2.35**	**1.27**
	2/25/2013	**22.4**	320	37.7	1094	1474.1	0.001	**14.1**	0.001	0.001	0.001	0.001	0.001	0.001	**1.76**	**1.03**
	5/30/2013	2.4	0.001	0.001	0.001	2.4	2.4	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/12/2013	0.001	2.4	0.001	14.9	17.3	2.1	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/6/2013	0.001	0.001	0.001	4.3	4.3	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/10/2014	0.001	2.9	0.001	6.6	9.5	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	5/22/2014	0.001	0.001	0.001	5.9	5.9	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/15/2014	0.001	0.001	0.001	7.3	7.3	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/5/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/24/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
RW-13	12/15/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/15/2012	**220**	**1400**	250	**191000**	192870	0.001	**95**	34	0.001	0.001	0.001	0.001	0.001	**3.7**	**2.5**
	11/20/2012	**497**	**2310**	237	**1730**	4774	0.001	**67.6**	0.001	0.001	0.001	0.001	0.001	0.001	**6.93**	**1.26**
	2/22/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.132**	**0.2**
	5/29/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	8/12/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.001	0.001	NS	NS	NS	NS
	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	7.5	0.001	0.001	0.001	0.001	0.001	0.001	**0.13**	**0.40**
	2/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.24**
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.32**
	8/15/2014	2.5	0.001	0.001	0.001	2.5	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/6/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
TP-1	6/8/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/26/2011	**13**	27	47	610	697	0.001	**110**	9.8	0.001	0.001	0.001	0.001	0.001	**3.1**	**1.9**
TP-1*	12/15/2011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	3/15/2012	0.001	0.001	0.001	700	700	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	6/21/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/6/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.5**
	11/16/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.43**
	2/22/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.38**
	5/29/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.47**
	8/13/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.54**
	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.33**
	2/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.31**
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.32**
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.67**
	11/7/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.31**
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.34**
TP-2	6/8/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/26/2011	**18**	750	**700**	3166	4634	0.001	**2800**	**95**	0.001	0.001	0.001	0.001	0.001	**19**	**5.6**
TP-2*	12/15/2011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	3/15/2012	0.001	0.001	0.001	42	42	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	6/21/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/6/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.62**
	11/16/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.45**
	2/22/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.39**
	5/29/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.45**
	8/13/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.31**
	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.34**
	2/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.44**
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.39**
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.35**
	11/7/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.34**
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.27**
TP-3	12/15/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/15/2012	0.001	0.001	0.001	63	63	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	6/21/2012	**5**	5.7	0.001	11	21.7	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/6/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.5**
	11/19/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/22/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.25**
	5/29/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.31**
	8/13/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.30**
	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.24**

Table 2 - Historical Monitoring/Recovery Well Groundwater Analytical Results
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Well No.	Date	B	T	E	X	Total BTEX	MTBE	Naph	IBP	PCE	TCE	1,2-DCE	Acetone	Carbon Disulfide	TPH GRO	TPH DRO
	2/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**1.71**
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.45**
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	11/7/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.31**
TP-4	12/15/2011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	3/15/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	6/21/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	9/6/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.61**
	11/19/2012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.30**
	2/22/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.37**
	5/29/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.41**
	8/13/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.87**
	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.35**
	2/11/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.33**
	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.82**
	8/15/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.45**
	11/7/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.50**
	2/25/2015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.30**
Type I and II Aquifers		**5**	**1000**	**700**	**10000**	**NRS**	**20**	**0.65**	**66**	**5**	**5**	**5**	**550**	**100**	**0.047**	**0.047**

Quality Control Samples

QC Type	Sample ID	Date	B	T	E	X	MTBE	Naphth	IBP	PCE	TCE	1,2-DCE	Acetone	Carbon Disulfide	TPH GRO	TPH DRO
Duplicate of RW-4	RW-4	8/12/2013	4.9	26.4	5.7	66.3	0.001	**4.0**	0.001	0.001	0.001	0.001	0.001	0.001	**148**	**0.27**
	DUPE		4.9	25.6	5.5	64.8	0.001	**3.7**	0.001	0.001	0.001	0.001	0.001	0.001	**146**	**0.28**
Duplicate of MW-10D (deep)	MW-10D	8/16/2013	0.001	0.001	0.001	0.001	3.5	0.001	0.001	3.5	0.001	0.001	0.001	0.001	0.001	0.001
	DUPE		0.001	0.001	0.001	0.001	3.5	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Duplicate of RW-6	RW-6	11/6/2013	0.001	3.6	0.001	10.5	0.001	0.001	0.001	0.001	0.001	0.001	0.001	8.9	0.001	**0.51**
	FD-1		0.001	3.1	0.001	9.9	0.001	0.001	0.001	0.001	0.001	0.001	0.001	9.1	0.001	**0.50**
Duplicate of MW-8	MW-8	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	FD-2		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Duplicate of TP-1	TP-1	11/7/2013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.33**
	FD-3		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.31**
Duplicate of MW-10D (middle)	MW-10D	11/8/2013	0.001	0.001	0.001	0.001	2.8	0.001	0.001	**5.5**	0.001	0.001	0.001	0.001	0.001	0.001
	FD-4		0.001	0.001	0.001	0.001	3.1	0.001	0.001	**5.2**	0.001	0.001	0.001	0.001	0.001	0.001
Duplicate of RW-2	RW-2	2/10/2014	**6.7**	41.4	13.1	75.7	0.001	**28.1**	0.001	0.001	0.001	0.001	0.001	0.001	**0.167**	**0.43**
	FD-1		**6.8**	41.4	13.4	76.5	0.001	**27.8**	0.001	0.001	0.001	0.001	0.001	0.001	**0.167**	**0.45**
Duplicate of MW-8	MW-8	5/22/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	FD-1		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.22**
Duplicate of MW-8	MW-8	8/15/2014	2.5	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	DUPE		2.6	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.21**
Duplicate of MW-8	MW-8	11/7/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	FD		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Duplicate of MW-8	MW-8	2/25/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.21**
	FD-1		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

TPH GRO and DRO results in parts per million or mg/l
BTEX, MTBE, and Naphthalene, Acetone, MEK, 1,2-Dichloroethane, PCE, Carbon Disulfide, and Isopropylbenzene results in parts per billion or ug/l
0.001 = Below Detection Limits (Value Assigned For Graphing Purposes)
800,000 = Not sampled due to presence of liquid phase hydrocarbon (Value Assigned for Graphing Purposes)
As per the MDE Directive Letter, dated May 29, 2013 groundwater quality graphs were constructed using a log scale that was consistent for all wells.
As such, the aforementione values assigned for graphing purposes were used
B = Benzene; T = Toluene; E = Ethylbenzene; X = Xylene
MTBE = Methyl-tert-butyl-ether
Naph = Naphthalene
IPB = Isopropylbenzene
PCE = Tetrachloroethene
TCE = Trichloroethene
1,2-DCE = 1,2-dichloroethane
TPH GRO = Total Petroleum Hydrocarbons Gasoline Range Organics
TPH DRO = Total Petroleum Hydrocarbons Diesel Range Organics
NS = Not Sampled
This table presents all applicable dissolved phase constituents included in the quantifiable clean-up standards established by the Maryland Department of the Environment (MDE)
Some compounds may have been detected but are not tabulated on this spreadsheet as they do not have a quantifiable cleanup standard established by the MDE
See laboratory analytical results reports for full results.
MDE Standards (Generic Numeric Cleanup Standards for Groundwater and Soil - Interim Final Guidance Update No. 2.1 - June 2008)
Bold Denotes Regulatory Exceedance
Denotes Estimated Value
NRS = No Regulatory Standard
* Sample collected to confirm prior analytical results
MW-10D Shallow collected at 25-29.5 feet below top of casing
MW-10D Middle collected at 89-94 feet below top of casing
MW-10D Deep collected at 185-190 feet below top of casing.
MW-12D Shallow collected at 41-51 feet below top of casing
MW-12D Mid 1 collected at 70-75 feet below top of casing
MW-12D Mid 2 collected at 95-100 feet below top of casing
MW-12 D Deep collected at 145-150 feet below top of casing
MW-13D shallow collected at 37-42 feet below top of casing
MW-13D Deep collected at 134.5 to 139.5 feet below top of casing

Table 3 - Onsite Potable Well Treatment System Analytical Results
Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Sample Location	Date	B	T	E	X	TBA	MTBE	Naphth
Supply Influent	6/8/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	7/25/2011	BDL	5.3	3.4	16	24.7	BDL	1.2
	8/4/2011	BDL	BDL	BDL	BDL	BDL	4.8	BDL
	9/15/2011	BDL	BDL	BDL	BDL	BDL	6	BDL
	10/19/2012	BDL	BDL	BDL	BDL	BDL	2.8	BDL
	11/16/2012	BDL	BDL	BDL	BDL	BDL	2.2	BDL
	12/14/2011	BDL	BDL	BDL	BDL	BDL	2.46	BDL
	1/19/2012	BDL	BDL	BDL	BDL	BDL	2.42	BDL
	2/8/2012	BDL	BDL	BDL	BDL	BDL	4.79	BDL
	3/22/2012	BDL	BDL	BDL	BDL	BDL	4.75	BDL
	4/26/2012	BDL	BDL	BDL	BDL	BDL	3.64	BDL
	6/7/2012	BDL	BDL	BDL	BDL	BDL	5.6	BDL
	9/21/2012	BDL	BDL	BDL	BDL	BDL	2.85	BDL
	12/14/2012	BDL	BDL	BDL	BDL	BDL	1.99	BDL
	3/21/2013	BDL	BDL	BDL	BDL	BDL	2.8	BDL
	5/30/2013	BDL	BDL	BDL	BDL	BDL	3.07	BDL
	9/3/2013	BDL	BDL	BDL	BDL	BDL	2.72	BDL
	12/18/2013	BDL	BDL	BDL	BDL	BDL	3.43	BDL
	3/13/2014	BDL	BDL	BDL	BDL	BDL	2.25	BDL
	5/21/2014	BDL	BDL	BDL	BDL	BDL	1.87	BDL
	9/10/2014	BDL	BDL	BDL	BDL	BDL	3.17	BDL
	12/11/2014	BDL	BDL	BDL	BDL	BDL	4.14	BDL
	3/18/2015	BDL	BDL	BDL	BDL	BDL	3.03	BDL
Filtration Mid-1	6/8/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	7/25/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	8/4/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/15/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/19/2012	BDL	BDL	BDL	BDL	BDL	0.5	BDL
	11/16/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/14/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	1/19/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	2/8/2012	BDL	BDL	BDL	BDL	BDL	0.77	BDL
	3/22/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	4/26/2012	BDL	BDL	BDL	BDL	BDL	1.23	BDL
	6/7/2012	BDL	BDL	BDL	BDL	BDL	1.62	BDL
	9/21/2012	BDL	BDL	BDL	BDL	BDL	0.92	BDL
	12/14/2012	BDL	BDL	BDL	BDL	BDL	1.04	BDL
	3/21/2013	BDL	BDL	BDL	BDL	BDL	0.92	BDL
	5/30/2013	BDL	BDL	BDL	BDL	BDL	1.75	BDL
	9/3/2013	BDL	BDL	BDL	BDL	BDL	1.10	BDL
	12/18/2013	BDL	BDL	BDL	BDL	BDL	1.46	BDL
	3/13/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	5/21/2014	BDL	BDL	BDL	BDL	BDL	0.66	BDL
	9/10/2014	BDL	BDL	BDL	BDL	BDL	1.42	BDL
	12/11/2014	BDL	BDL	BDL	BDL	BDL	1.41	BDL
	3/18/2015	BDL	BDL	BDL	BDL	BDL	1.54	BDL
Filtration Mid-2	6/8/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Table 3 - Onsite Potable Well Treatment System Analytical Results
Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Sample Location	Date	B	T	E	X	TBA	MTBE	Naphth
	7/25/2011	BDL	BDL	1.5	BDL	1.5	BDL	BDL
	8/4/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/15/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/19/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	11/16/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/14/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	1/19/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	2/8/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/22/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	4/26/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	6/7/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/21/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/14/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/21/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	5/30/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/3/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/18/2013	BDL	BDL	BDL	BDL	BDL	0.57	BDL
	3/13/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	5/21/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Table 3 - Onsite Potable Well Treatment System Analytical Results
Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Sample Location	Date	B	T	E	X	TBA	MTBE	Naphth
	9/10/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/11/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/18/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Filtration Effluent	6/8/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	7/25/2011	BDL	1.5	2	6.5	10	BDL	BDL
	8/4/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/15/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/19/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	11/16/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/14/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	1/19/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	2/8/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/22/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	4/26/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	6/7/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/21/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/14/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/21/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	5/30/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/3/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/18/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/13/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	5/21/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/10/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/11/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/18/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Type I and II Aquifers		**5**	**1000**	**700**	**10000**	**NRS**	**20**	**0.65**

Data collected prior to the detection of the release (June 2011) has been omitted

BTEX and MTBE results in parts per billion or ug/l

BDL = Below Detection Limits

B = Benzene; T = Toluene; E = Ethylbenzene; X = Xylene

TBA = tert-Butanol; MTBE = Methyl-tert-butyl-ether; Naphth = Naphthalene

NS = Not Sampled NA = Not Accessible

Some compounds may have been detected but are not tabulated on this spreadsheet.

See laboratory analytical results reports for full results.

MDE Standards (Generic Numeric Cleanup Standards for Groundwater and Soil - Interim Final Guidance Update No. 2.1 - June 2008)

NRS = No Regulatory Standard

J Denotes Estimated Value

Table 4 - Offsite Potable Well Analytical Results
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Address	Sample ID	Date	B	T	E	X	TBA	MTBE	Naphth
463 Mechanics Valley Road	PW-463	6/29/2011	BDL	BDL	BDL	BDL	BDL	0.71	BDL
463 Mechanics Valley Road	PW-463	8/4/2011	BDL	BDL	BDL	BDL	BDL	0.75	BDL
463 Mechanics Valley Road	PW-463	9/15/2011	BDL	BDL	BDL	BDL	18.7	0.79	BDL
463 Mechanics Valley Road	PW-463	10/19/2011	BDL	BDL	BDL	BDL	BDL	0.86	BDL
463 Mechanics Valley Road	PW-463	11/16/2011	BDL	BDL	BDL	BDL	BDL	0.99	BDL
463 Mechanics Valley Road	PW-463	12/15/2011	BDL	BDL	BDL	BDL	BDL	0.90	BDL
463 Mechanics Valley Road	PW-463	1/19/2012	BDL	BDL	BDL	BDL	BDL	0.73	BDL
463 Mechanics Valley Road	PW-463	2/9/2012	BDL	BDL	BDL	BDL	BDL	1.06	BDL
463 Mechanics Valley Road	PW-463	3/22/2012	BDL	BDL	BDL	BDL	BDL	1.06	BDL
463 Mechanics Valley Road	PW-463	4/26/2012	BDL	BDL	BDL	BDL	BDL	0.87	BDL
463 Mechanics Valley Road	PW-463	6/7/2012	BDL	BDL	BDL	BDL	BDL	1.06	BDL
463 Mechanics Valley Road	PW-463	9/24/2012	BDL	BDL	BDL	BDL	BDL	0.60	BDL
463 Mechanics Valley Road	PW-463	12/14/2012	NS	NS	NS	NS	NS	NS	NS
463 Mechanics Valley Road	PW-463	4/3/2013	BDL	BDL	BDL	BDL	24	0.85	BDL
463 Mechanics Valley Road	PW-463	6/6/2013	BDL	BDL	BDL	BDL	BDL	1.22	BDL
463 Mechanics Valley Road	PW-463	9/3/2013	BDL	BDL	BDL	BDL	BDL	0.87	BDL
463 Mechanics Valley Road	PW-463	12/4/2013	BDL	BDL	BDL	BDL	BDL	1.38	BDL
463 Mechanics Valley Road	PW-463	3/13/2014	BDL	BDL	BDL	BDL	24.2	1.72	BDL
463 Mechanics Valley Road	PW-463	5/21/2014	BDL	BDL	BDL	BDL	BDL	1.02	BDL
463 Mechanics Valley Road	PW-463	9/10/2014	BDL	BDL	BDL	BDL	BDL	1.25	BDL
463 Mechanics Valley Road	PW-463	12/18/2014	BDL	BDL	BDL	BDL	BDL	1.66	BDL
475 Mechanics Valley Road	PW-475	6/29/2011	BDL	BDL	BDL	BDL	BDL	1.7	BDL
475 Mechanics Valley Road	PW-475	8/4/2011	BDL	BDL	BDL	BDL	BDL	1.98	BDL
475 Mechanics Valley Road	PW-475	9/15/2011	BDL	BDL	BDL	BDL	BDL	1.31	BDL
475 Mechanics Valley Road	PW-475	10/19/2011	BDL	BDL	BDL	BDL	BDL	1.77	BDL
475 Mechanics Valley Road	PW-475	11/16/2011	BDL	BDL	BDL	BDL	BDL	2.07	BDL
475 Mechanics Valley Road	PW-475	12/14/2011	BDL	BDL	BDL	BDL	BDL	1.96	BDL
475 Mechanics Valley Road	PW-475	1/18/2012	BDL	BDL	BDL	BDL	BDL	1.87	BDL
475 Mechanics Valley Road	PW-475	2/8/2012	BDL	BDL	BDL	BDL	BDL	2.35	BDL
475 Mechanics Valley Road	PW-475	3/22/2012	BDL	BDL	BDL	BDL	BDL	2.12	BDL
475 Mechanics Valley Road	PW-475	4/26/2012	BDL	BDL	BDL	BDL	BDL	1.73	BDL
475 Mechanics Valley Road	PW-475	6/7/2012	BDL	BDL	BDL	BDL	BDL	2.13	BDL
475 Mechanics Valley Road	PW-475	9/24/2012	BDL	BDL	BDL	BDL	BDL	2.05	BDL
475 Mechanics Valley Road	PW-475	12/14/2012	BDL	BDL	BDL	BDL	BDL	1.85	BDL
475 Mechanics Valley Road	PW-475	3/27/2013	BDL	BDL	BDL	BDL	BDL	2.32	BDL
475 Mechanics Valley Road	PW-475	6/6/2013	BDL	BDL	BDL	BDL	BDL	2.46	BDL
475 Mechanics Valley Road	PW-475	9/3/2013	BDL	BDL	BDL	BDL	BDL	2.16	BDL
475 Mechanics Valley Road	PW-475	12/4/2013	BDL	BDL	BDL	BDL	BDL	2.76	BDL
475 Mechanics Valley Road	PW-475	3/13/2014	BDL	BDL	BDL	BDL	BDL	2.39	BDL
475 Mechanics Valley Road	PW-475	5/21/2014	BDL	BDL	BDL	BDL	BDL	2.49	BDL
475 Mechanics Valley Road	PW-463	9/10/2014	BDL	BDL	BDL	BDL	BDL	2.77	BDL
475 Mechanics Valley Road	PW-475	12/18/2014	BDL	BDL	BDL	BDL	11.5	3.31	BDL
475 Mechanics Valley Road	PW-475	3/18/2015	BDL	BDL	BDL	BDL	BDL	2.7	BDL
487 Mechanics Valley Road	PW-487	6/14/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
487 Mechanics Valley Road	PW-487	7/12/2011	1.3	7.4	BDL	2.5	BDL	4.1	2.9
487 Mechanics Valley Road	PW-487	8/4/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
487 Mechanics Valley Road	PW-487	9/15/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
487 Mechanics Valley Road	PW-487	10/19/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
487 Mechanics Valley Road	PW-487	11/16/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
487 Mechanics Valley Road	PW-487	12/14/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
487 Mechanics Valley Road	PW-487	1/18/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
487 Mechanics Valley Road	PW-487	2/8/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
487 Mechanics Valley Road	PW-487	3/22/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
487 Mechanics Valley Road	PW-487	4/26/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
487 Mechanics Valley Road	PW-487	6/7/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
487 Mechanics Valley Road	PW-487	9/24/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
487 Mechanics Valley Road	PW-487	12/14/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
487 Mechanics Valley Road	PW-487	3/27/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
487 Mechanics Valley Road	PW-487	6/6/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Table 4 - Offsite Potable Well Analytical Results
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Address	Sample ID	Date	B	T	E	X	TBA	MTBE	Naphth
487 Mechanics Valley Road	PW-487	9/3/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
487 Mechanics Valley Road	PW-487	12/4/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
487 Mechanics Valley Road	PW-487	3/13/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
487 Mechanics Valley Road	PW-487	5/21/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
487 Mechanics Valley Road	PW-487	9/10/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
487 Mechanics Valley Road	PW-487	12/18/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
487 Mechanics Valley Road	PW-487	3/18/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL
493 Mechanics Valley Road	PW-493	6/14/2011	BDL	BDL	BDL	BDL	BDL	3.43	BDL
493 Mechanics Valley Road	PW-493	7/12/2011	BDL	BDL	BDL	BDL	BDL	3.8	BDL
493 Mechanics Valley Road	PW-493	8/4/2011	BDL	BDL	BDL	BDL	BDL	3.38	BDL
493 Mechanics Valley Road	PW-493	9/15/2011	BDL	BDL	BDL	BDL	BDL	3.26	BDL
493 Mechanics Valley Road	PW-493	10/19/2011	BDL	BDL	BDL	BDL	BDL	3.10	BDL
493 Mechanics Valley Road	PW-493	11/16/2011	BDL	BDL	BDL	BDL	BDL	3.58	BDL
493 Mechanics Valley Road	PW-493	12/14/2011	BDL	BDL	BDL	BDL	BDL	3.71	BDL
493 Mechanics Valley Road	PW-493	1/18/2012	BDL	BDL	BDL	BDL	BDL	3.93	BDL
493 Mechanics Valley Road	PW-493	2/8/2012	BDL	BDL	BDL	BDL	BDL	4.29	BDL
493 Mechanics Valley Road	PW-493	3/29/2012	BDL	BDL	BDL	BDL	BDL	3.28	BDL
493 Mechanics Valley Road	PW-493	4/26/2012	BDL	BDL	BDL	BDL	BDL	3.20	BDL
493 Mechanics Valley Road	PW-493	6/7/2012	BDL	BDL	BDL	BDL	BDL	4.11	BDL
493 Mechanics Valley Road	PW-493	9/24/2012	BDL	BDL	BDL	BDL	BDL	2.85	BDL
493 Mechanics Valley Road	PW-493	12/14/2012	BDL	BDL	BDL	BDL	BDL	2.36	BDL
493 Mechanics Valley Road	PW-493	3/27/2013	BDL	BDL	BDL	BDL	BDL	2.46	BDL
493 Mechanics Valley Road	PW-493	6/6/2013	NS	NS	NS	NS	NS	NS	NS
493 Mechanics Valley Road	PW-493	9/3/2013	NS	NS	NS	NS	NS	NS	NS
493 Mechanics Valley Road	PW-493	12/4/2013	BDL	BDL	BDL	BDL	BDL	4.96	BDL
493 Mechanics Valley Road	PW-493	3/13/2014	BDL	BDL	BDL	BDL	BDL	2.91	BDL
493 Mechanics Valley Road	PW-493	6/4/2014	BDL	BDL	BDL	BDL	BDL	3.57	BDL
493 Mechanics Valley Road	PW-493	9/29/2014	BDL	BDL	BDL	BDL	BDL	7.23	BDL
493 Mechanics Valley Road	PW-493	12/18/2014	BDL	BDL	BDL	BDL	BDL	7.63	BDL
493 Mechanics Valley Road	PW-493	3/25/2015	BDL	BDL	BDL	BDL	BDL	4.59	BDL
505 Mechanics Valley Road	PW-505-In	6/14/2011	BDL	BDL	BDL	BDL	38.8	**89.8**	BDL
505 Mechanics Valley Road	PW-505-In	7/12/2011	BDL	BDL	BDL	BDL	BDL	**150**	BDL
505 Mechanics Valley Road	PW-505-In	8/4/2011	BDL	BDL	BDL	BDL	BDL	**102**	BDL
505 Mechanics Valley Road	PW-505-In	9/15/2011	BDL	BDL	BDL	BDL	19.5	**72.8**	BDL
505 Mechanics Valley Road	PW-505-In	10/19/2011	BDL	BDL	BDL	BDL	BDL	**91.3**	BDL
505 Mechanics Valley Road	PW-505-In	11/16/2011	BDL	BDL	BDL	BDL	49.1	**97.9**	BDL
505 Mechanics Valley Road	PW-505-In	12/15/2011	BDL	BDL	BDL	BDL	25.9	**102**	BDL
505 Mechanics Valley Road	PW-505-In	1/18/2012	BDL	BDL	BDL	BDL	27.3	**97.1**	BDL
505 Mechanics Valley Road	PW-505-In	2/8/2012	BDL	BDL	BDL	BDL	58.1	**90.4**	BDL
505 Mechanics Valley Road	PW-505-In	3/22/2012	BDL	BDL	BDL	BDL	62.6	**91.2**	BDL
505 Mechanics Valley Road	PW-505-In	4/26/2012*	BDL	BDL	BDL	BDL	52.4	**74.2**	BDL
505 Mechanics Valley Road	PW-505-In	5/3/2012	BDL	BDL	BDL	BDL	56.5	**76.6**	BDL
505 Mechanics Valley Road	PW-505-In	6/7/2012	BDL	BDL	BDL	BDL	73.7	**85.9**	BDL
505 Mechanics Valley Road	PW-505-In	7/19/2012	BDL	BDL	BDL	BDL	46.6	**66.5J**	BDL
505 Mechanics Valley Road	PW-505-In	8/23/2012*	BDL	BDL	BDL	BDL	64.2	**94.2 J**	BDL
505 Mechanics Valley Road	PW-505-In	9/21/2012	BDL	BDL	BDL	BDL	50	**77.5**	BDL
505 Mechanics Valley Road	PW-505-In	10/31/2012	BDL	BDL	BDL	BDL	52.3	**73.3**	BDL
505 Mechanics Valley Road	PW-505-In	11/20/2012	BDL	BDL	BDL	BDL	76.1	**71.9 J**	BDL
505 Mechanics Valley Road	PW-505-In	12/14/2012	BDL	BDL	BDL	BDL	54	**65.2**	BDL
505 Mechanics Valley Road	PW-505-In	1/29/2013*	BDL	BDL	BDL	BDL	91	**82.8 J**	BDL
505 Mechanics Valley Road	PW-505-In	2/14/2013	BDL	BDL	BDL	BDL	69.3	**108 J**	BDL
505 Mechanics Valley Road	PW-505-In	3/21/2013*	BDL	BDL	BDL	BDL	95.7	**100 J**	BDL
505 Mechanics Valley Road	PW-505-In	4/18/2013	BDL	BDL	BDL	BDL	79.3	**75.4 J**	BDL
505 Mechanics Valley Road	PW-505-In	6/21/2013	BDL	2.53	BDL	BDL	70.3	**57.1 J**	BDL
505 Mechanics Valley Road	PW-505-In	7/19/2013	BDL	BDL	BDL	BDL	49.6	**63.3 J**	BDL
505 Mechanics Valley Road	PW-505-In	8/16/2013	BDL	BDL	BDL	BDL	61.8	**65.5 J**	BDL
505 Mechanics Valley Road	PW-505-In	9/17/2013*	BDL	BDL	BDL	BDL	53.5	**58.9 J**	BDL
505 Mechanics Valley Road	PW-505-In	10/10/2013	BDL	BDL	BDL	BDL	36.2	**54.3 J**	BDL
505 Mechanics Valley Road	PW-505-In	11/7/2013	BDL	BDL	BDL	BDL	29	**51.2 J**	BDL

Table 4 - Offsite Potable Well Analytical Results
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Address	Sample ID	Date	B	T	E	X	TBA	MTBE	Naphth
505 Mechanics Valley Road	PW-505-In	12/4/2013	BDL	BDL	BDL	BDL	49.8	**72.6 J**	BDL
505 Mechanics Valley Road	PW-505-In	1/13/2014	BDL	BDL	BDL	BDL	49.9	**61.1 J**	BDL
505 Mechanics Valley Road	PW-505-In	2/12/2014	BDL	BDL	BDL	BDL	94.4	**82.4 J**	BDL
505 Mechanics Valley Road	PW-505-In	3/13/2014	BDL	BDL	BDL	BDL	85.2	**93.6 J**	BDL
505 Mechanics Valley Road	PW-505-In	5/21/2014	BDL	BDL	BDL	BDL	117	**55.7**	BDL
505 Mechanics Valley Road	PW-505-In	10/16/2014	BDL	BDL	BDL	BDL	64.5	**60.2**	BDL
505 Mechanics Valley Road	PW-505-In	12/18/2014	BDL	BDL	BDL	BDL	107	**62.8**	BDL
505 Mechanics Valley Road	PW-505-In	3/18/2015	BDL	BDL	BDL	BDL	60.4	**42.1**	BDL
505 Mechanics Valley Road	PW-505-Mid1	7/12/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	8/4/2011	BDL	BDL	BDL	BDL	BDL	1.17	BDL
505 Mechanics Valley Road	PW-505-Mid1	9/15/2011	BDL	BDL	BDL	BDL	15.4	1.07	BDL
505 Mechanics Valley Road	PW-505-Mid1	10/19/2011	BDL	BDL	BDL	BDL	BDL	3.27	BDL
505 Mechanics Valley Road	PW-505-Mid1	11/16/2011	BDL	BDL	BDL	BDL	43.8	**50.7**	BDL
505 Mechanics Valley Road	PW-505-Mid1	12/15/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	1/18/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	2/8/2012	BDL	BDL	BDL	BDL	40.4	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	3/22/2012	BDL	BDL	BDL	BDL	62.3	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	4/26/2012*	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	5/3/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	6/7/2012	BDL	BDL	BDL	BDL	48	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	7/19/2012	BDL	BDL	BDL	BDL	40.3	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	8/23/2012*	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	9/21/2012	BDL	BDL	BDL	BDL	32	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	10/31/2012	BDL	BDL	BDL	BDL	43	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	11/20/2012	BDL	BDL	BDL	BDL	68.9	1.22	BDL
505 Mechanics Valley Road	PW-505-Mid1	12/14/2012	BDL	BDL	BDL	BDL	60.9	2.89	BDL
505 Mechanics Valley Road	PW-505-Mid1	1/29/2013*	BDL	BDL	BDL	BDL	54.8	9.48	BDL
505 Mechanics Valley Road	PW-505-Mid1	2/14/2013	BDL	BDL	BDL	BDL	42.7	6.76	BDL
505 Mechanics Valley Road	PW-505-Mid1	3/21/2013*	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	4/18/2013	BDL	BDL	BDL	BDL	11.2	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	6/21/2013	BDL	BDL	BDL	BDL	41.8	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	7/19/2013	BDL	BDL	BDL	BDL	20.3	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	8/16/2013	BDL	BDL	BDL	BDL	50.8	**42.7**	BDL
505 Mechanics Valley Road	PW-505-Mid1	9/17/2013*	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	10/10/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	11/7/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	12/4/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	1/13/2014	BDL	BDL	BDL	BDL	23.4	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	2/12/2014	BDL	BDL	BDL	BDL	50.9	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	3/13/2014	BDL	BDL	BDL	BDL	54.2	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	5/21/2014	BDL	BDL	BDL	BDL	90.6	8.36	BDL
505 Mechanics Valley Road	PW-505-Mid1	10/16/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	12/18/2014	BDL	BDL	BDL	BDL	18.1	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid1	3/18/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	7/12/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	8/4/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	9/15/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	10/19/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	11/16/2011	BDL	BDL	BDL	BDL	15.5	9.32	BDL
505 Mechanics Valley Road	PW-505-Mid2	12/15/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	1/18/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	2/8/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	3/22/2012	BDL	BDL	BDL	BDL	14	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	4/26/2012*	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	5/3/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	6/7/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	7/19/2012	BDL	BDL	BDL	BDL	20.3	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	8/23/2012*	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	9/21/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Table 4 - Offsite Potable Well Analytical Results
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Address	Sample ID	Date	B	T	E	X	TBA	MTBE	Naphth
505 Mechanics Valley Road	PW-505-Mid2	10/31/2012	BDL	BDL	BDL	BDL	20.7	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	11/20/2012	BDL	BDL	BDL	BDL	51.8	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	12/14/2012	BDL	BDL	BDL	BDL	47.4	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	1/29/2013*	BDL	BDL	BDL	BDL	BDL	1.31	BDL
505 Mechanics Valley Road	PW-505-Mid2	2/14/2013	BDL	BDL	BDL	BDL	BDL	0.65	BDL
505 Mechanics Valley Road	PW-505-Mid2	3/21/2013*	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	4/18/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	6/21/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	7/19/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	8/16/2013	BDL	BDL	BDL	BDL	27.8	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	9/17/2013*	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	10/10/2013	BDL	BDL	BDL	BDL	14.3	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	11/7/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	12/4/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	1/13/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	2/12/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	3/13/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	5/21/2014	BDL	BDL	BDL	BDL	75.4	3.88	BDL
505 Mechanics Valley Road	PW-505-Mid2	10/16/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Mid2	12/18/2014	BDL	BDL	BDL	BDL	10.8	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	7/12/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	8/4/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	9/15/2011	BDL	BDL	BDL	BDL	BDL	5.6	BDL
505 Mechanics Valley Road	PW-505-Eff	10/19/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	11/16/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	12/15/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	1/18/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	2/8/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	3/22/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	4/26/2012*	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	5/3/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	6/7/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	7/19/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	8/23/2012*	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	9/21/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	10/31/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	11/20/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	12/14/2012	BDL	BDL	BDL	BDL	18	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	1/29/2013*	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	2/14/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	3/21/2013*	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	4/18/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	6/21/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	7/19/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	8/16/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	9/17/2013*	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	9/30/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	10/10/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	11/7/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	12/4/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	1/13/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	2/12/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	3/13/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	5/21/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	10/16/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	12/18/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
505 Mechanics Valley Road	PW-505-Eff	3/18/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-In	6/14/2011	BDL	BDL	BDL	BDL	44.1	**82.2**	BDL
513 Mechanics Valley Road	PW-513-In	7/12/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Table 4 - Offsite Potable Well Analytical Results
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Address	Sample ID	Date	B	T	E	X	TBA	MTBE	Naphth
513 Mechanics Valley Road	PW-513-In	8/4/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-In	9/15/2011	BDL	BDL	BDL	BDL	19.3	**96.7**	BDL
513 Mechanics Valley Road	PW-513-In	10/19/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-In	11/16/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-In	12/14/2011	BDL	BDL	BDL	BDL	17.1	16.1	BDL
513 Mechanics Valley Road	PW-513-In	1/18/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-In	2/8/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-In	3/22/2012	BDL	BDL	BDL	BDL	44.1	**88.5**	BDL
513 Mechanics Valley Road	PW-513-In	4/26/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-In	5/3/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-In	6/7/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-In	7/19/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-In	8/23/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-In	9/21/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-In	10/31/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-In	11/20/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-In	12/14/2012	BDL	BDL	BDL	BDL	12.2	BDL	BDL
513 Mechanics Valley Road	PW-513	10/10/2013	BDL	BDL	BDL	BDL	14.8	**27.6**	BDL
513 Mechanics Valley Road	PW-513	11/22/2013	BDL	2.94	BDL	BDL	15.7	**26.6**	BDL
513 Mechanics Valley Road	PW-513	12/4/2013	BDL	1.58	BDL	BDL	16.2	**22.5**	BDL
513 Mechanics Valley Road	PW-513-Eff	1/13/2014	BDL	BDL	BDL	BDL	25.3	**38.7 J**	BDL
513 Mechanics Valley Road	PW-513-Eff	2/12/2014	BDL	BDL	BDL	BDL	31.6	**34.9**	BDL
513 Mechanics Valley Road	PW-513-Eff	3/13/2014	BDL	BDL	BDL	BDL	29.9	**35.3**	BDL
513 Mechanics Valley Road	PW-513-Eff	5/21/2014	BDL	BDL	BDL	BDL	17.2	**20.3**	BDL
513 Mechanics Valley Road	PW-513-Eff	9/10/2014	BDL	BDL	BDL	BDL	BDL	15.7	BDL
513 Mechanics Valley Road	PW-513-Eff	12/18/2014	BDL	BDL	BDL	BDL	67.9	**41.9**	BDL
513 Mechanics Valley Road	PW-513-Eff	3/18/2015	BDL	BDL	BDL	BDL	31.9	**25.5**	BDL
513 Mechanics Valley Road	PW-513-Mid1	7/12/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-Mid1	12/14/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-Mid1	3/22/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-Mid1	11/20/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-Mid1	12/14/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-Mid2	7/12/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-Mid2	12/14/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-Mid2	3/22/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-Mid2	11/20/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-Eff	7/12/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-Eff	12/14/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-Eff	3/22/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
513 Mechanics Valley Road	PW-513-Eff	11/20/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10 Montgomery Drive	PW-10-18	6/29/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10 Montgomery Drive	PW-10	8/4/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10 Montgomery Drive	PW-10	9/15/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10 Montgomery Drive	PW-10	10/19/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10 Montgomery Drive	PW-10	11/16/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10 Montgomery Drive	PW-10	12/14/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10 Montgomery Drive	PW-10	1/18/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10 Montgomery Drive	PW-10	2/8/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10 Montgomery Drive	PW-10	3/22/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10 Montgomery Drive	PW-10	4/26/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10 Montgomery Drive	PW-10	6/7/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10 Montgomery Drive	PW-10	9/21/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10 Montgomery Drive	PW-10	12/19/2012	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10 Montgomery Drive	PW-10	3/27/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10 Montgomery Drive	PW-10	5/30/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10 Montgomery Drive	PW-10	9/3/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10 Montgomery Drive	PW-10	12/4/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10 Montgomery Drive	PW-10	3/13/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10 Montgomery Drive	PW-10	5/21/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Table 4 - Offsite Potable Well Analytical Results
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Address	Sample ID	Date	B	T	E	X	TBA	MTBE	Naphth
10 Montgomery Drive	PW-10	9/10/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10 Montgomery Drive	PW-10	12/18/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10 Montgomery Drive	PW-10	3/18/2015	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MDE Standards - Type I and II Aquifers			**5**	**1000**	**700**	**10000**	**NRS**	**20**	**0.65**

Samples from 513 Mechanics Valley Road were unable to be obtained during the 1st, 2nd, and 3rd quarter of 2013

A sample from 505 Mechanics Valley Road was unable to be obtained in May 2013 due to a broken well pump.
A sample was taken after the pump was repaired (June 21, 2013)

A sample was unable to be obtained from 493 Mechanics Valley Rd. The residence was vacant during the 2nd and 3rd quarter of 2013.

* - The carbon filtration system was re-bedded between this date and the preceeding sampling date

All results and Standards in parts per billion or µg/l

BDL = Below Detection Limits

B = Benzene; T = Toluene; E = Ethylbenzene; X = Xylene; TBA = tert-Butanol; MTBE = Methyl-tert-butyl-ether; Naphth = Naphthalene

NS = Not Sampled

Some compounds may have been detected but are not tabulated on this spreadsheet.

See laboratory analytical results reports for full results.

MDE Standards (Generic Numeric Cleanup Standards for Groundwater and Soil - Interim Final Guidance Update No. 2.1 - June 2008)

NRS = No Regulatory Standard

Table 5 - Natural Attenuation Monitoring Results
Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Well No.	Date	DO	pH	ORP	Dissolved Iron	Sulfate	Sulfite	Nitrate	Nitrite	Total Nitrogen
MW-1R	5/22/2014	7.17	5.07	297	BDL	54.7	BDL	1.6	BDL	1.6
MW-2	5/22/2014	1.58	5.23	253	BDL	49.7	BDL	2.1	BDL	2.9
MW-4	5/22/2014	1.41	5.03	288	BDL	35.4	BDL	3.5	BDL	3.5
MW-5	5/22/2014	3.01	5.50	274	BDL	20.6	BDL	3.1	BDL	3.1
MW-6	5/22/2014	3.90	6.42	242	BDL	19.3	BDL	1.2	BDL	1.2
	11/7/2014	6.07	6.36	232	BDL	5.1	BDL	0.5	BDL	1.0
MW-7	11/7/2014	4.11	5.34	131	0.182	51.5	BDL	1.2	BDL	1.2
MW-8	5/22/2014	3.43	5.94	247	BDL	156	BDL	1.3	BDL	1.9
	11/7/2014	3.91	5.84	195	BDL	104	BDL	0.8	BDL	0.8
MW-9	5/22/2014	0.00	5.53	132	19.8	56.7	BDL	BDL	BDL	BDL
	11/7/2014	4.63	5.69	86	2.15	33.2	BDL	BDL	BDL	BDL
MW-10	5/22/2014	1.62	5.13	288	BDL	46.9	BDL	2.1	BDL	2.1
MW-11	5/22/2014	3.85	5.54	192	0.218	18.6	BDL	1.3	BDL	1.3
	11/7/2014	5.00	5.98	137	0.108	30.5	BDL	1.1	BDL	1.1
MW-12	5/22/2014	4.05	5.56	297	BDL	22.6	BDL	0.5	BDL	1.1
MW-13	5/22/2014	5.36	5.19	276	BDL	66.6	BDL	3.3	BDL	3.8
MW-14	5/22/2014	0.41	5.51	284	BDL	20.6	BDL	3.2	BDL	2.7
MW-15	5/22/2014	4.31	6.66	270	BDL	51.3	BDL	2.0	BDL	3.0
MW-16	5/22/2014	6.21	6.14	269	BDL	25.1	BDL	0.7	BDL	0.7

Sulfate, Sulfite, Nitrate, Nitrite, and Dissolved Iron results in parts per million or milligrams per liter (mg/L)

DO = Dissolved Oxygen measured in milligrams per Liter (mg/L)

ORP = Oxidation Reduction Potential measured in millivolts (mV)

BDL = Below Detection Limits

NR = No Reading

Table 6 - VE/GE System Groundwater Extraction Estimates
Period: January 1, 2015 - March 31, 2015
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Rd. North East, MD

TASK	RESULT
Groundwater Extracted for the Period	456,715 gallons
System Average Extraction Rate	3.6 gallons per minute
Wells Utilized	MW-7, RW-1, RW-2, RW-3, RW-4, RW-6, RW-8, RW-9, RW-10, RW-11, RW-12
Average Extraction Rate Per Well	0.32 gallons per minute
Average Influent BTEX/TPH GRO Concentration	0.8 / 0.0 micrograms per Liter
Average Effluent BTEX/TPH GRO Concentration	Below Laboratory Detection Limits
Average Treatment Efficiency	100.0%
Total Dissolved Phase Hydrocarbons Recovered for the Period	0.00 gallons
Total Liquid Phase Hydrocarbons Recovered for the Period	0 gallons
Total Liquid and Dissolved Phase Hydrocarbons Recovered Since VE/GE System Start-up	3.7 gallons

Table 7 - Vapor Extraction Estimates
Period: January 1, 2015 - March 31, 2015

TASK	RESULT
Vapor Extracted for the Period	8,729,280 cubic feet
System Average Extraction Rate	196.6 cubic feet per minute
Wells Utilized	MW-7, RW-1, RW-2, RW-3, RW-4, RW-6, RW-8, RW-9, RW-10, RW-11, RW-12
Average Extraction Rate Per Well	17.87 cubic feet per minute
Average Volatile Organic Compound Concentration	2.1 parts per million
Average Manifold Vacuum Pressure	6.23 inches of mercury
Average Vapor Phase Hydrocarbons Recovered for the Period	0.2 pounds per day
Total Vapor Phase Hydrocarbons Recovered for the Period	9.2 pounds / 0.9 gallons
Total Vapor Phase Hydrocarbons Recovered Since VE/GE System Start-up	2,876.2 pounds / 448.0 gallons

Table 8 - Cumulative Hydrocarbon Recovery Estimates

TASK	RESULT
Hydrocarbons Recovered Per Period (Jan. 1 - Mar. 31)	6.2 gallons
Hydrocarbons Recovered Since VE/GE System Start-up	451.7 gallons
Hydrocarbons Recovered Prior to VE/GE System Start-up	205 gallons
Total Cumulative Hydrocarbons Recovered	656.7 gallons

Table 9 - VE/GE System Hydrocarbon Recovery Estimate Worksheet 1
Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

Monitoring Period	Operating Days	Dissolved Phase				GW Extraction				Vapor Phase	
		System Influent Dissolved Benzene Concentration (ug/L)	System Influent Dissolved BTEX Concentration (ug/L)	System Influent Dissolved MTBE Concentration (ug/L)	System Influent Dissolved TPH-GRO Concentration (ug/L)	Period GW Discharge (gallons)	Cumulative GW Discharge (gallons)	Average Extraction Rate per Well (gpm)	Average Extraction Rate for System (gpm)	VOCs (ppm)	Airflow (cfm)
12/12/12-12/31/12	20	503	2007	0	2870	676,800	676,800	2.14	23.5	412	127
1/1/13-1/22/13	19	47.1	233.2	0	383	576,720	1,253,520	1.92	21.1	332.3	119.3
2/1/13-3/31/13	53	35.1	525.9	0	752.5	707,040	1,960,560	0.84	9.3	75.7	460.4
4/1/13-6/30/13	80	16.9	251.5	0	445	1,203,125	3,163,685	0.95	10.4	49.9	450.7
7/1/13-9/30/13	28	0	0	0	0	646,576	3,810,261	0.74	8.2	33.6	74.2
10/1/13-12/31/13	88	13.6	302.1	0	962.7	705,212	3,868,897	0.51	5.6	33.7	166.7
1/1/14-3/31/14	87	13.4	210.7	0	351	893,044	4,703,305	0.65	7.1	15.5	193
4/1/14-6/30/14	80	20.4	171.4	0	194	738,432	5,441,737	0.58	6.4	8.8	175
7/1/14-9/30/14	91	4.6	63.00	0	0	815,688	6,257,425	0.57	6.2	12.9	351
10/1/14-12/31/14	84	0	0.80	0	0	551,796	6,809,221	0.41	4.6	8.7	357.3
1/1/15-3/31/15	89	0	0.00	0	0	456,715	7,265,936	0.32	3.6	2.1	196.6

BTEX = Benzene, toulene, ethylbenzene and xylenes

VOCs - Volatile organic compounds measured with a photoionization detector (PID)

Table 10 - VE/GE System Hydrocarbon Recovery Estimate Worksheet 2

Monitoring Period	Gallons of Hydrocarbons (BTEX) Recovered During Period				Cumulative Gallons to Date	Pounds of Hydrocarbons (BTEX) Recovered During Period					Period Total Pounds	Cumulative Pounds to Date
	Liquid (gallons)	Dissolved (gallons)	Vapor (gallons)	Period Total Gallons		Liquid (lbs)	Dissolved (lbs)	Dissolved (lbs/day)	Vapor (lbs)	Vapor (lbs/day)		
12/12/12-12/31/12	0	1.81	70.6	72.4	72.4	0.00	11.3	0.6	441.2	22.1	452.5	452.5
1/1/13-1/22/13	0	0.18	50.8	51.0	123.4	0.00	1.1	0.1	317.6	16.7	318.7	771.2
2/1/13-3/31/13	0	0.50	124.6	125.1	248.5	0.00	3.1	0.1	778.8	14.7	781.9	1553.1
4/1/13-6/30/13	0	0.40	121.4	121.8	370.3	0.00	2.5	0.0	758.6	9.5	761.1	2314.2
7/1/13-9/30/13	0	0.00	4.7	4.7	375.0	0.00	0.0	0.0	29.4	1.1	29.4	2343.6
10/1/13-12/31/13	0	0.28	33.3	33.6	408.6	0.00	1.8	0.0	208.4	2.4	210.2	2553.8
1/1/14-3/31/14	0	0.25	17.6	17.8	426.4	0.00	1.6	0.0	109.7	1.3	111.3	2665.1
4/1/14-6/30/14	0	0.17	2.4	2.6	429.0	0.00	1.1	0.0	27.9	0.6	29.0	2694.1
7/1/14-9/30/14	0	0.07	15.5	15.6	444.6	0.00	0.4	0.0	129.8	1.9	130.2	2824.3
10/1/14-12/31/14	0	0.00	6.2	6.2	450.8	0.00	0.0	0.0	65.5	1.3	65.5	2889.9
1/1/15-3/31/15	0	0.00	0.9	0.9	451.7	0.00	0.0	0.0	9.2	0.2	9.2	2899.1

Calculation used for dissolved phase recovery in pounds per day: Flow rate gpm * Total BTEX concentration ug/L * 3.785 L/gal * 1440 min/day *(2.205 lbs/10^9 ug)

Calculation used for vapor phase recovery in pounds per day: Airflow ft^3/min * 0.0283 m^3/ft^3 * VOCs ppm * 105 g/mole BTEX * .00268 gas constant * 0.001 kg/g * 52.91 lbs per day / kg per hr

1 gallon = 6.25 pounds

Vapor recovery is adjusted for the down time associated with the Pulsing Trial. The VE system ran for 50 days of the 84 days the GE system was operational.

Table 11 -VE/GE System Hydrocarbon Recovery Estimate Worksheet 3

Monitoring Period	Cumulative Gallons of Hydrocarbons (BTEX)				Cumulative Pounds of Hydrocarbons (BTEX)			
	Liquid (gallons)	Cumulative Dissolved (gallons)	Cumulative Vapor (gallons)	Cumulative Total Gallons	Cumulative Liquid (lbs)	Cumulative Dissolved (lbs)	Cumulative Vapor (lbs)	Cumulative Total Pounds
12/12/12-12/31/12	0.0	1.8	70.6	72.4	0.0	11.3	441.2	452.5
1/1/13-1/22/13	0.0	2.0	121.4	123.4	0.0	12.5	758.8	771.2
2/1/13-3/31/13	0.0	2.5	246.0	248.5	0.0	15.6	1537.5	1553.1
4/1/13-6/30/13	0.0	2.9	367.4	370.3	0.0	18.1	2296.1	2314.2
7/1/13-9/30/13	0.0	2.9	372.1	375.0	0.0	18.1	2325.5	2343.6
10/1/13-12/31/13	0.0	3.2	405.4	408.6	0.0	19.9	2534.0	2553.8
1/1/14-3/31/14	0.0	3.4	423.0	426.4	0.0	21.4	2643.7	2665.1
4/1/14-6/30/14	0.0	3.6	425.4	429.0	0.0	22.5	2671.6	2694.1
7/1/14-9/30/14	0.0	3.7	440.9	444.6	0.0	22.9	2801.4	2824.3
10/1/14-12/31/14	0.0	3.7	447.1	450.8	0.0	22.9	2866.9	2889.9
1/1/15-3/31/15	0.0	3.7	448.0	451.7	0.0	22.9	2876.2	2899.1

Table 12 - VE Airflow Field Readings Worksheet
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road
North East, MD

Date	Operating Days	Airflow(CFM)	Total Airflow	VOCs (ppm)
1/1 - 1/7	6	225	1,944,000	0
1/15 - 1/19	5	297	2,138,400	0
1/29 - 2/3	6	216	1,866,240	8.6
2/10 - 2/17	8	216	2,488,320	0
2/25 - 3/3	7	29	292,320	0
3/12 - 3/17	6	168	1,451,520	6.1
3/27 - 3/31	5	454	3,268,800	0
	43		8,729,280	
Quarterly Average:		**196.6**		**2.1**

CFM - cubic feet per minute
ppm - parts per million
VOCs - Volatile Organic Compounds
VOC readings obtained using Photoionization Detector
Airflow readings obtained using a Hot Wire Anemometer
VOCs shown are the average of readings during each pulsing event

Table 13 - GE Influent Concentration and Treatment Efficiency Worksheet
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road
North East, MD

System Groundwater Influent Results

Date	B	T	E	X	Total BTEX	MTBE	Naphth.	TPH GRO
1/7/2015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2/4/2015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/4/2015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Results from laboratory analysis by Maryland Spectral Services, Inc.
All values in micrograms per Liter (ug/L)
0.0 - Denotes a result below laboratory detection limits

Treatment Efficiency calculation

Date	INFLUENT			EFFLUENT			Treatment Efficiency (%)
	Total BTEX	Naphth.	TPH GRO	Total BTEX	Naphth.	TPH GRO	
1/7/2015	0.0	0.0	0.0	0.0	0.0	0.0	100.0
2/4/2015	0.0	0.0	0.0	0.0	0.0	0.0	100.0
3/4/2015	0.0	0.0	0.0	0.0	0.0	0.0	100.0
						Avg.:	**100.0**

Results from laboratory analysis by Maryland Spectral Services, Inc.
All values in micrograms per Liter (ug/L)
Result of 0.0 is used for the purpose of calculation in the case of a result reported below lab detection limits.

Table 14 - Groundwater and Vapor Phase Recovery Well Operation Summary
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road
North East, MD

Monitoring Period	Recovery Wells	Days Groundwater Extraction in Operation	Days Vapor Extraction in Operation
1/1/14 - 3/31/14 (87/90 Days Operational)	RW-1	87	0
	RW-2	87	84
	RW-3	87	84
	RW-4	87	84
	RW-6	48	56
	RW-8	87	84
	RW-9	47	43
	RW-10	87	84
	RW-11	87	84
	RW-12	87	54
	MW-7	87	43
4/1/14 - 6/30/14 (80/91 Days Operational)	RW-1	80	0
	RW-2	80	43
	RW-3	80	43
	RW-4	80	43
	RW-6	80	43
	RW-8	80	43
	RW-9	80	0
	RW-10	80	43
	RW-11	80	43
	RW-12	80	43
	MW-7	80	0
7/1/14 - 9/30/14 (91/92 Days Operational)	RW-1	91	68
	RW-2	91	24
	RW-3	47	68
	RW-4	91	68
	RW-6	91	68
	RW-8	91	68
	RW-9	47	24
	RW-10	91	68
	RW-11	91	68
	RW-12	91	68
	MW-7	91	68
	RW-1	84	50
	RW-2	84	50
	RW-3	84	50
	RW-4	84	50

10/1/14 - 12/31/14 (84/92 Days Operational)	RW-6	84	50
	RW-8	84	50
	RW-9	84	50
	RW-10	84	50
	RW-11	84	50
	RW-12	84	50
	MW-7	84	50
1/1/15 - 3/31/15 (89/90 Days Operational)	RW-1	89	43
	RW-2	89	25
	RW-3	89	43
	RW-4	89	43
	RW-6	89	43
	RW-8	89	43
	RW-9	89	43
	RW-10	89	43
	RW-11	89	43
	RW-12	89	43
	MW-7	39	22

Table 15 - VE Specific Extraction Point Worksheet
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road
North East, MD

Date	Well ID	Airflow (cfm)	VOCs (ppm)	Vapor Recovery (lbs/day)
3/12/2014	RW-1	17.87	1.5	0.011
	RW-2	17.87	0.4	0.003
	RW-3	17.87	0.0	0.000
	RW-4	17.87	0.0	0.000
	RW-6	17.87	2.7	0.020
	RW-8	17.87	0.0	0.000
	RW-9	17.87	0.7	0.005
	RW-10	17.87	0.0	0.000
	RW-11	17.87	7.0	0.053
	RW-12	17.87	0.0	0.000
	MW-7	17.87	0.0	0.000

Calculation used for vapor phase recovery in pounds per day:

Airflow ft^3/min * 0.0283 m^3/ft^3 * VOCs ppm * 105 g/mole BTEX * .00268 gas constant * 0.001 kg/g * 52.91 lbs per day / kg per hr

CFM - cubic feet per minute
ppm - parts per million
VOCs - Volatile Organic Compounds
VOC readings obtained using Photoionization Detector
Airflow is total airflow divided by the # of operational wells

Table 16 - GE Specific Extraction Point Worksheet
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road
North East, MD

Date	Well ID	Average Extraction Rate per Well (gpm)	BTEX Concentration (2/24/2015)	Dissolved Phase Recovery (gallons per period)
2/24/2015	RW-1	0.32	142.4	0.046
	RW-2	0.32	0.0	0.000
	RW-3	0.32	2.6	0.001
	RW-4	0.32	0.0	0.000
	RW-6	0.32	0.0	0.000
	RW-8	0.32	0.0	0.000
	RW-9	0.32	2.4	0.001
	RW-10	0.32	0.0	0.000
	RW-11	0.32	32.4	0.010
	RW-12	0.32	0.0	0.000
	MW-7	0.32	0.0	0.000

Calculation used for dissolved phase recovery in pounds per period:
Flow rate gpm * Total BTEX concentration ug/L * 3.785 L/gal * 1440 min/day *(2.205 lbs/10^9 ug) *84 operating days

Results from laboratory analysis by Maryland Spectral Services, Inc.

BDL - Below Laboratory Detection Limits

BTEX Concentration values in micrograms per Liter (ug/L)

BTEX values from Quarterly Sampling event.

Table 17 - VE Specific Extraction Point Worksheet
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road
North East, MD

VAPOR PHASE RECOVERY PER WELL (POUNDS PER DAY)

Well ID	1st Qtr. 2013	2nd Qtr. 2013	3rd Qtr. 2013	4th Qtr. 2013	1st Qtr. 2014	2nd Qtr. 2014	3rd Qtr. 2014	4th Qtr. 2014	1st Qtr. 2015
RW-1	0.026	0.255	0.026	0.076	0.000	0.000	0.041	0.000	0.011
RW-2	3.420	1.105	0.047	0.196	0.000	0.014	0.202	0.000	0.003
RW-3	0.358	2.611	0.005	0.022	0.000	0.000	0.000	0.015	0.000
RW-4	0.433	2.186	0.007	0.169	0.000	0.031	0.313	0.105	0.000
RW-6	4.602	0.806	0.093	0.000	0.000	0.000	0.000	0.344	0.020
RW-8	0.218	0.027	0.013	0.000	0.000	0.012	0.000	0.005	0.000
RW-9	0.092	0.093	0.002	0.019	0.000	0.000	0.000	0.000	0.005
RW-10	0.257	0.821	0.005	0.000	0.000	0.006	0.004	0.000	0.000
RW-11	0.416	1.137	0.037	0.057	0.000	0.019	0.000	0.114	0.053
RW-12	0.013	0.228	0.070	0.035	0.000	0.000	0.000	0.000	0.000
MW-7	0.000	0.047	0.021	0.000	0.000	0.000	0.000	0.000	0.000

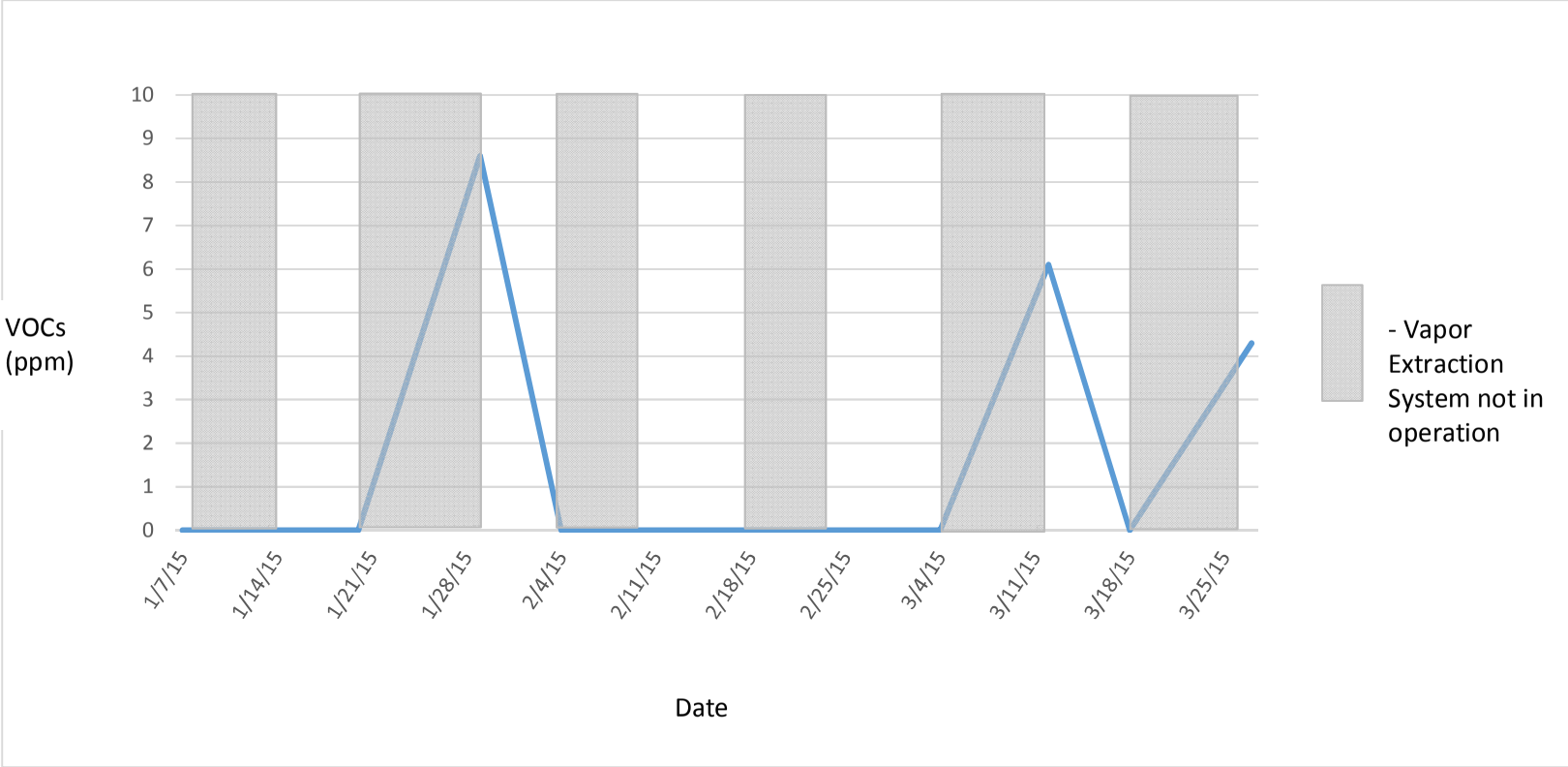
Table 18 - VE Specific Extraction Point Worksheet

DISSOLVED PHASE RECOVERY PER WELL (GALLONS)

Well ID	1st Qtr. 2013	2nd Qtr. 2013	3rd Qtr. 2013	4th Qtr. 2013	1st Qtr. 2014	2nd Qtr. 2014	3rd Qtr. 2014	4th Qtr. 2014	1st Qtr. 2015
RW-1	0.000	0.000	0.000	0.000	0.002	0.002	0.000	0.000	0.046
RW-2	0.304	0.000	0.039	0.096	0.059	0.115	0.000	0.000	0.000
RW-3	0.294	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.001
RW-4	0.276	0.083	0.046	0.862	0.135	0.197	0.012	0.000	0.000
RW-6	0.000	0.000	0.003	0.008	0.298	0.015	0.009	0.000	0.000
RW-8	4.502	0.005	0.193	0.000	0.313	0.185	0.016	0.000	0.000
RW-9	0.000	0.000	0.009	0.037	0.000	0.000	0.000	0.000	0.001
RW-10	0.223	0.021	0.001	0.003	0.151	0.029	0.009	0.000	0.000
RW-11	6.193	0.043	0.067	7.180	0.523	0.227	0.063	0.004	0.010
RW-12	1.346	0.002	0.008	0.002	0.004	0.003	0.003	0.000	0.000
MW-7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

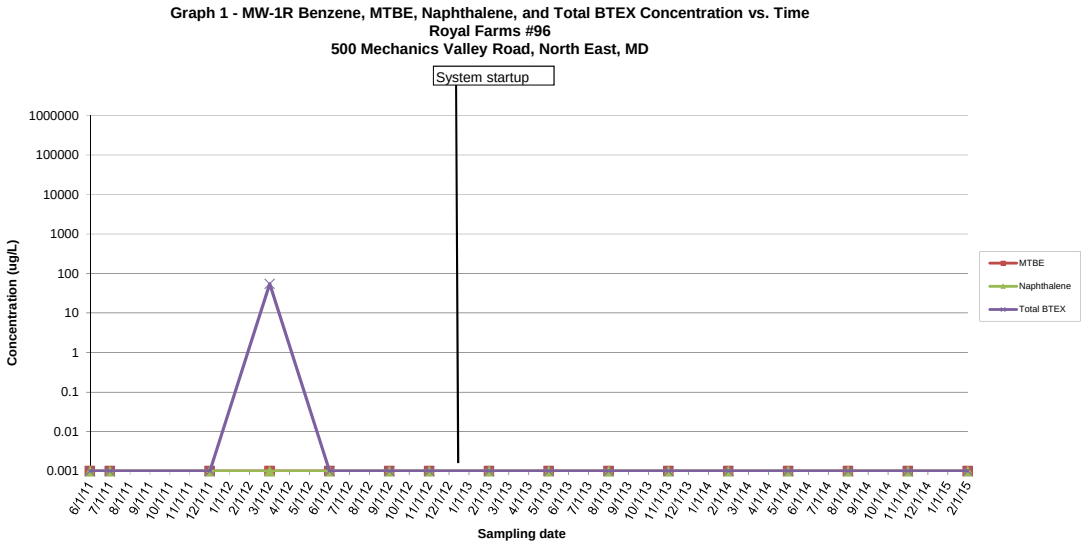
Table 19 - Results of Pulsing Activities
Fueling Station – Royal Farms #96
500 Mechanics Valley Road, North East, MD 21901

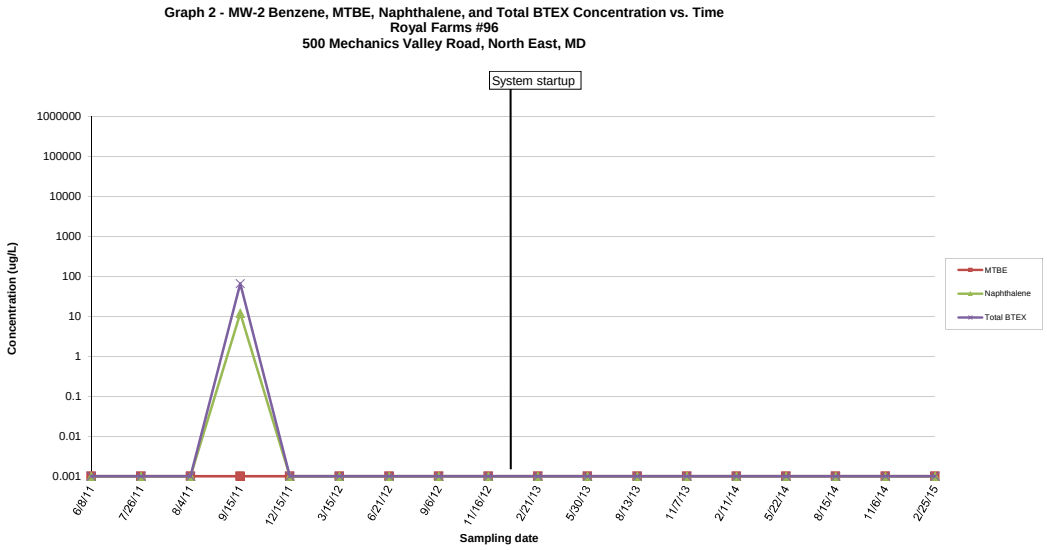
Date	VOCs (Parts per million)	Vapor Extraction System Operation Before Arrival	Tedlar Bag BTEX (ppm by volume)	Dilution Valve Setting (% open)
1/7/2015	0	ON	1.961	75
1/15/2015	0	OFF	-	75
1/20/2015	0	ON	-	75
1/29/2015	8.6	OFF	-	50
2/4/2015	0	ON	0.9414	75
2/10/2015	0	OFF	-	75
2/18/2015	0	ON	-	75
2/24/2015	0	OFF	-	75
3/4/2015	0	ON	2.9024	75
3/12/2015	6.1	OFF	-	75
3/18/2015	0	ON	-	100
3/27/2015	4.3	OFF	-	100



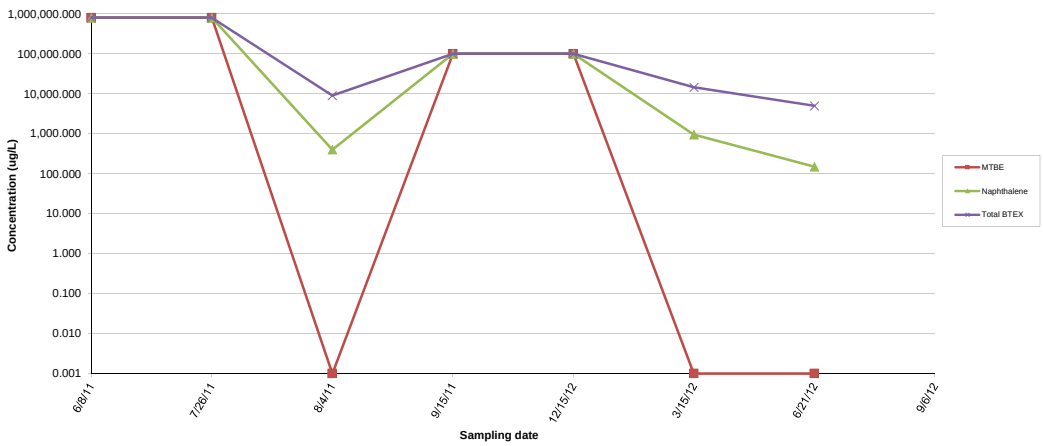
Note: No PID Readings were taken on Feb 18 and 24, 2015

Attachment C

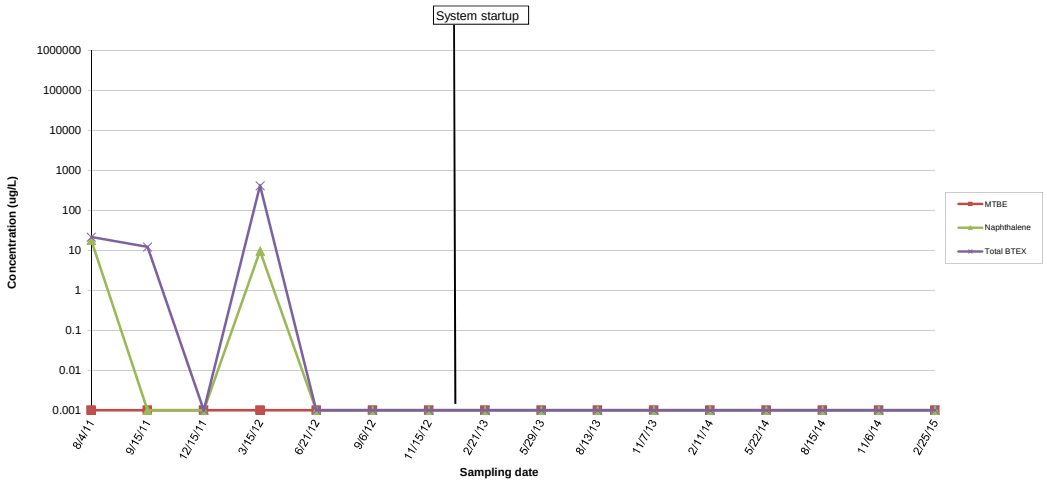

Graph 1 - MW-1R Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
6/1/11
7/1/11
8/1/11
9/1/11
10/1/11
11/1/11
12/1/11
1/1/12
2/1/12
3/1/12
4/1/12
5/1/12
6/1/12
7/1/12
8/1/12
9/1/12
10/1/12
11/1/12
12/1/12
1/1/13
2/1/13
3/1/13
4/1/13
5/1/13
6/1/13
7/1/13
8/1/13
9/1/13
10/1/13
11/1/13
12/1/13
1/1/14
2/1/14
3/1/14
4/1/14
5/1/14
6/1/14
7/1/14
8/1/14
9/1/14
10/1/14
11/1/14
12/1/14
1/1/15
2/1/15
Sampling date
MTBE
Naphthalene
Total BTEX

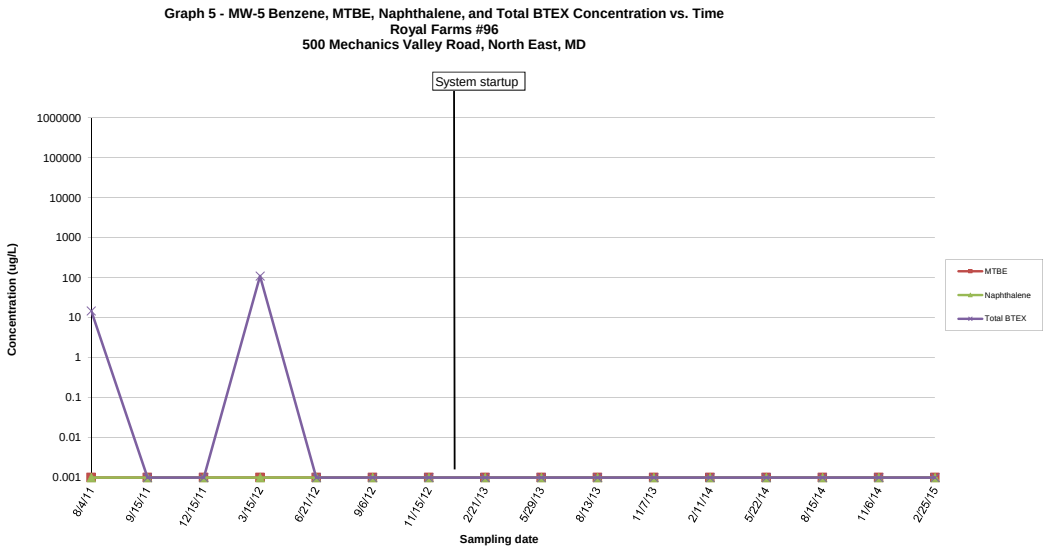

Graph 2 - MW-2 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
6/8/11
7/26/11
8/4/11
9/15/11
12/15/11
3/15/12
6/21/12
9/6/12
11/16/12
2/21/13
5/30/13
8/13/13
11/7/13
2/11/14
5/22/14
8/15/14
11/6/14
2/25/15
Sampling date
MTBE
Naphthalene
Total BTEX

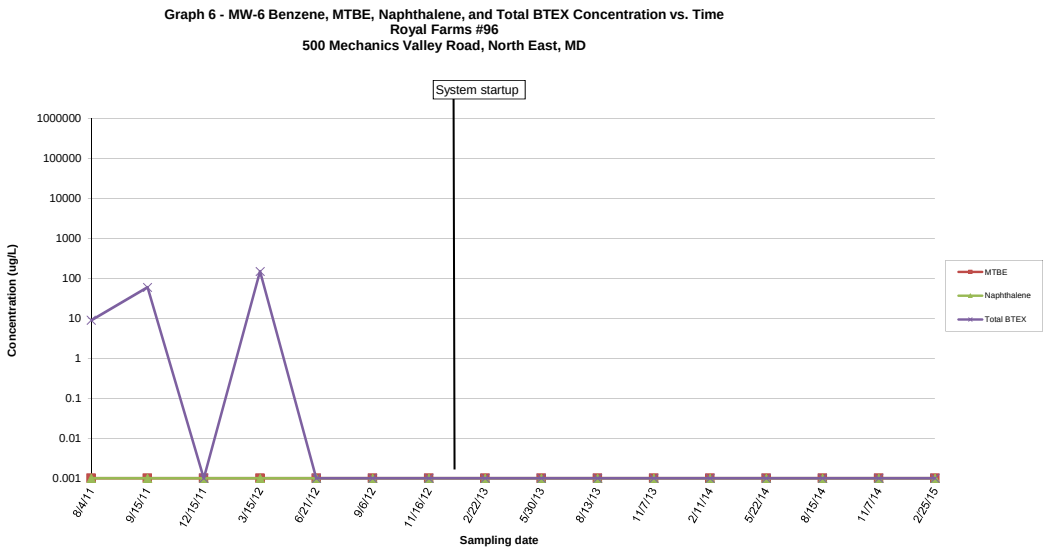
Graph 3 - MW-3 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



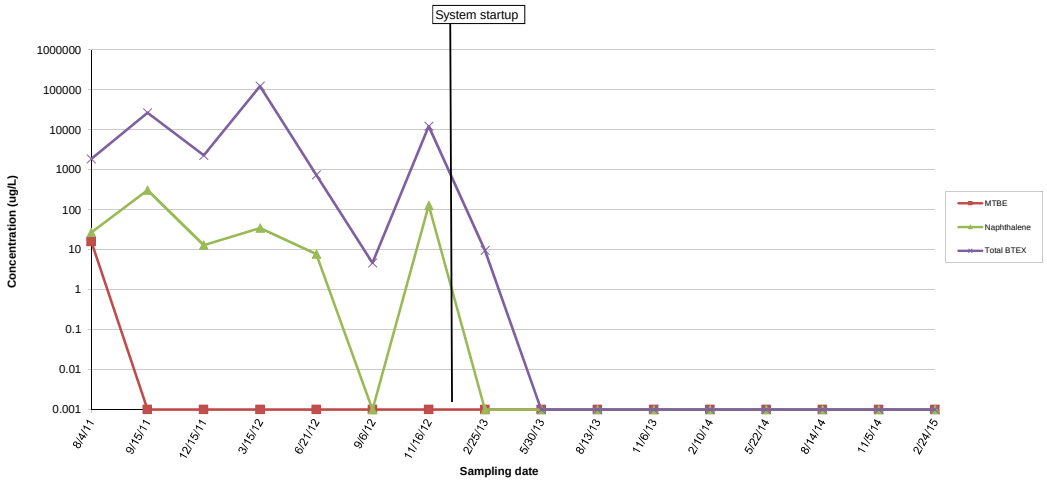
Graph 4 - MW-4 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



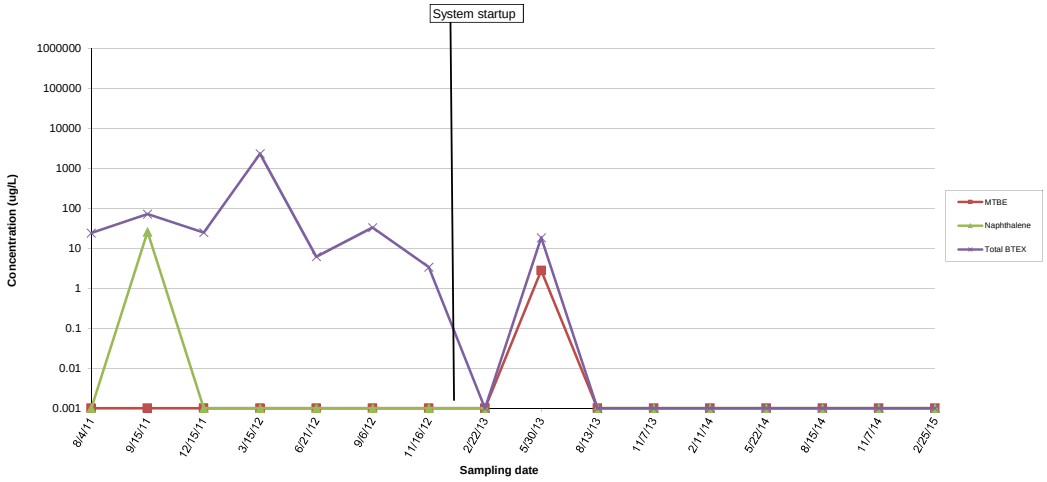

Graph 5 - MW-5 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
8/4/11
9/15/11
12/15/11
3/15/12
6/21/12
9/6/12
11/15/12
2/21/13
5/29/13
8/13/13
11/7/13
2/11/14
5/22/14
8/15/14
11/6/14
2/25/15
Sampling date
MTBE
Naphthalene
Total BTEX

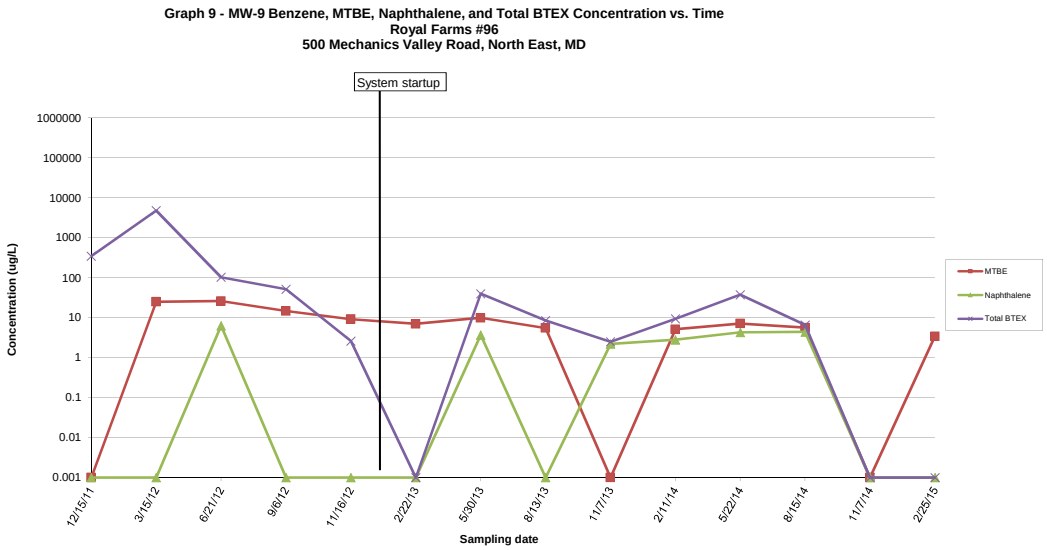

Graph 6 - MW-6 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
8/4/11
9/15/11
12/15/11
3/15/12
6/21/12
9/6/12
11/16/12
2/22/13
5/30/13
8/13/13
11/7/13
2/11/14
5/22/14
8/15/14
11/7/14
2/25/15
Sampling date
MTBE
Naphthalene
Total BTEX

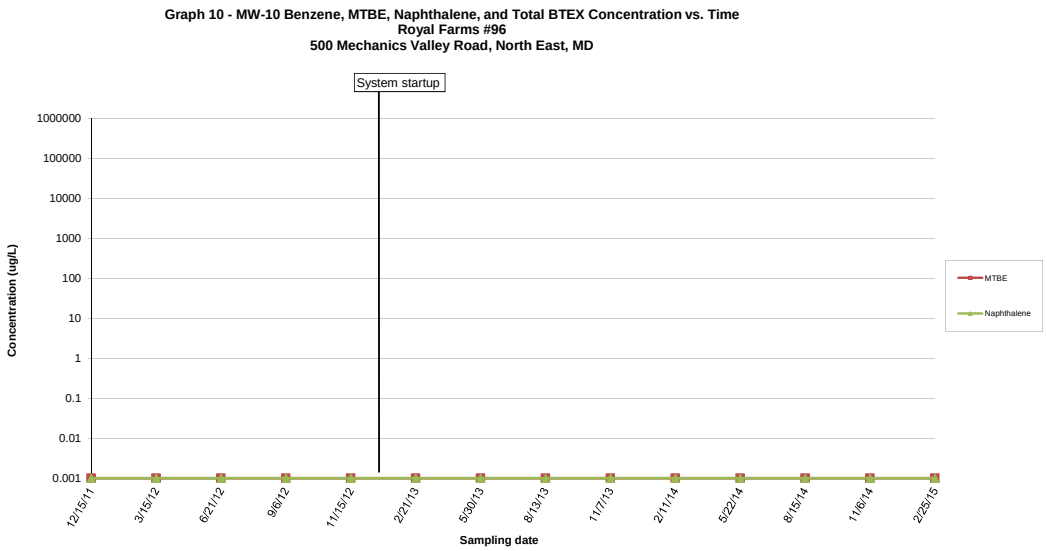
Graph 7 - MW-7 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD

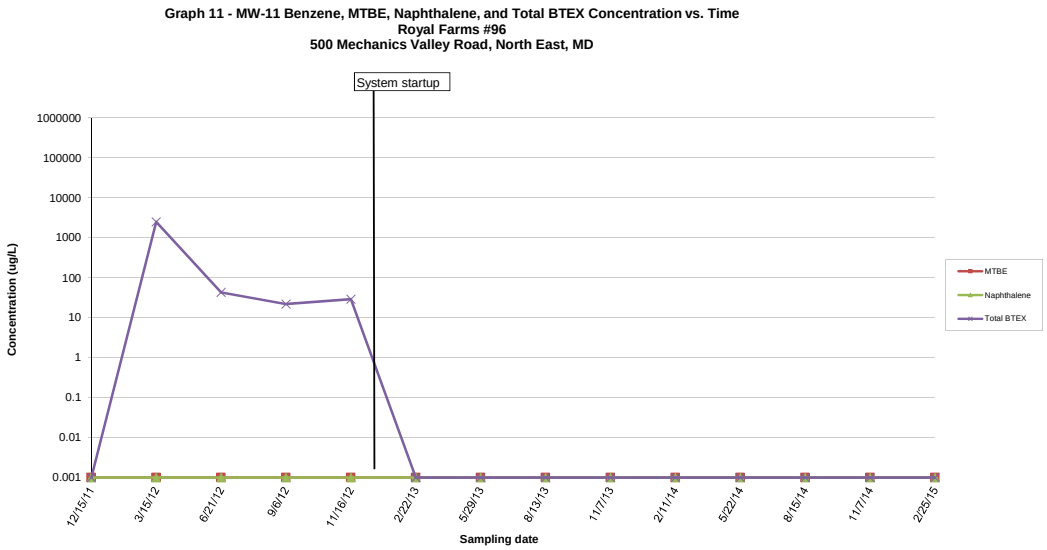


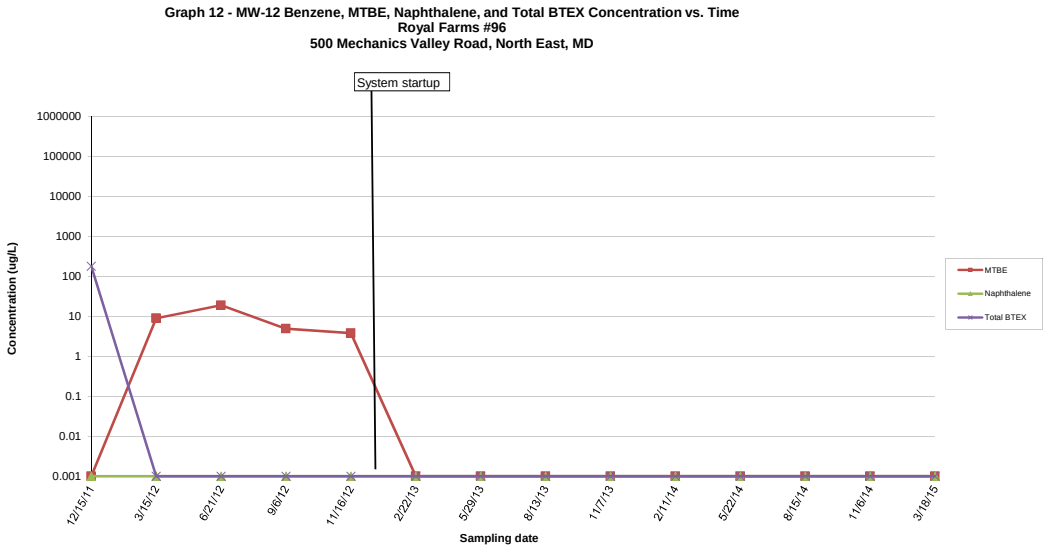
Graph 8 - MW-8 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



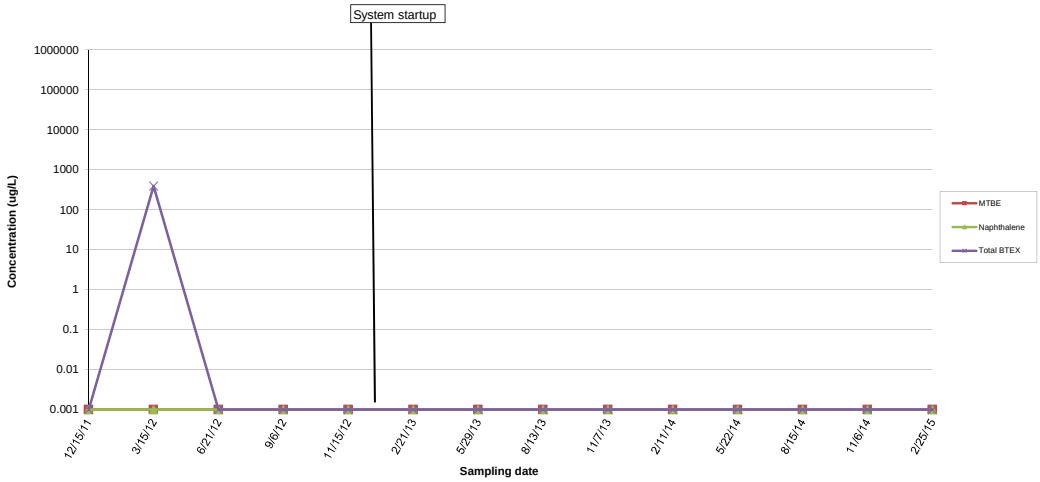

Graph 9 - MW-9 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
12/15/11
3/15/12
6/21/12
9/6/12
11/16/12
2/22/13
5/30/13
8/13/13
11/7/13
2/11/14
5/22/14
8/15/14
11/7/14
2/25/15
Sampling date
MTBE
Naphthalene
Total BTEX


Graph 10 - MW-10 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
12/15/11
3/15/12
6/21/12
9/6/12
11/15/12
2/21/13
5/30/13
8/13/13
11/7/13
2/11/14
5/22/14
8/15/14
11/6/14
2/25/15
Sampling date
MTBE
Naphthalene

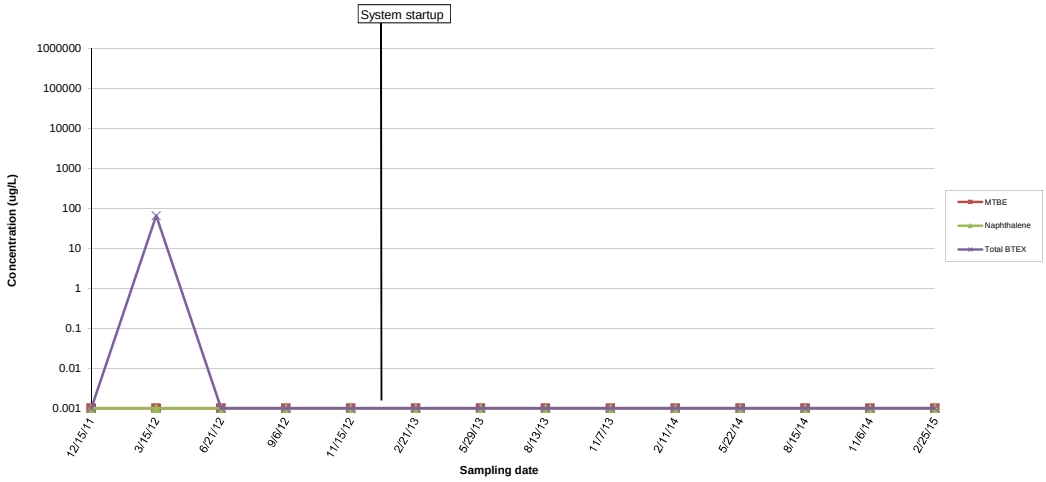

Graph 11 - MW-11 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
12/15/11
3/15/12
6/21/12
9/6/12
11/16/12
2/22/13
5/29/13
8/13/13
11/7/13
2/11/14
5/22/14
8/15/14
11/7/14
2/25/15
Sampling date
MTBE
Naphthalene
Total BTEX

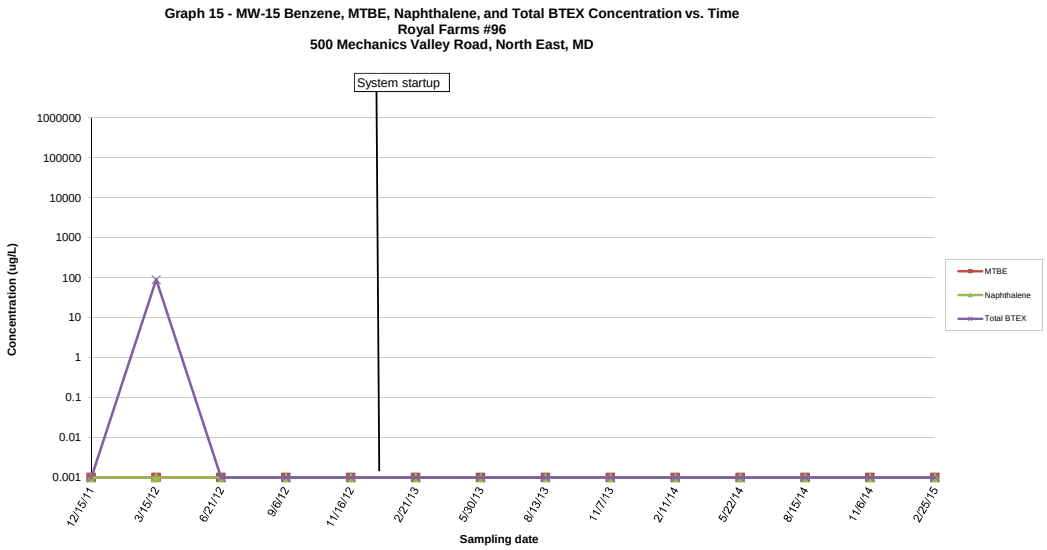

Graph 12 - MW-12 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
12/15/11
3/15/12
6/21/12
9/6/12
11/16/12
2/22/13
5/29/13
8/13/13
11/7/13
2/11/14
5/22/14
8/15/14
11/6/14
3/18/15
Sampling date
MTBE
Naphthalene
Total BTEX

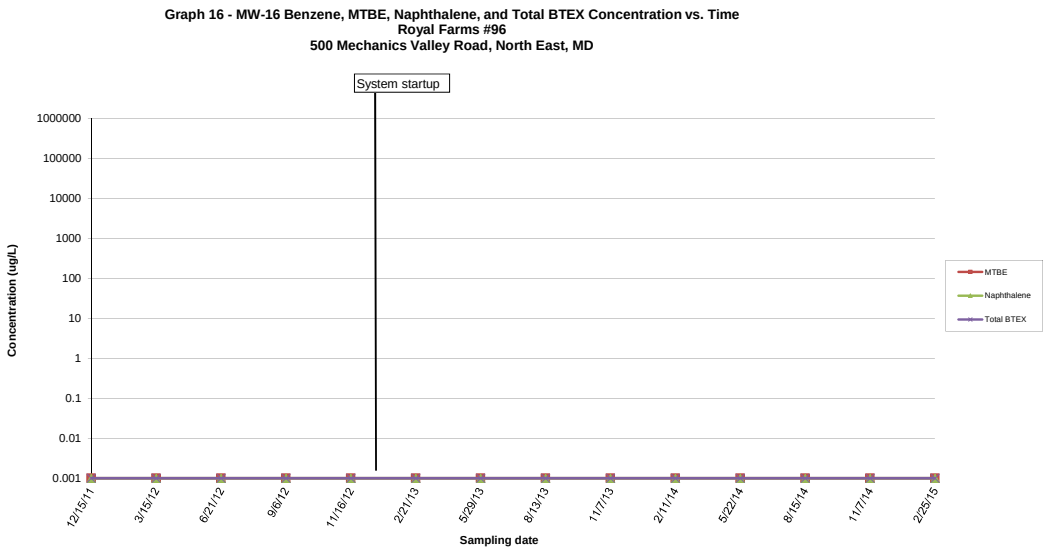
Graph 13 - MW-13 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



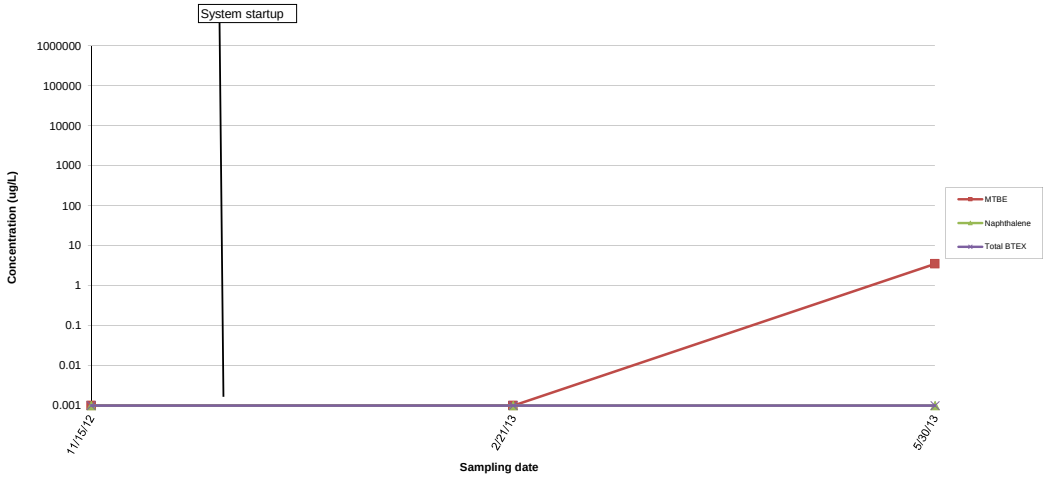
Graph 14 - MW-14 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



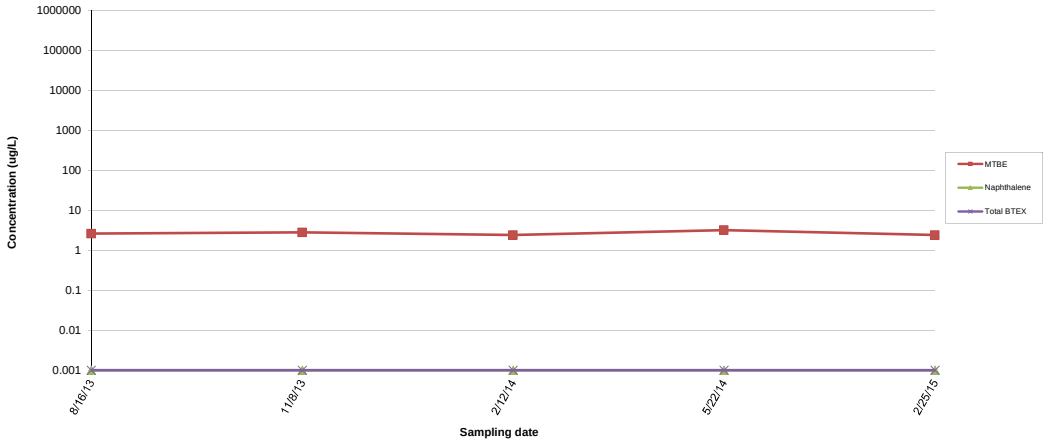

Graph 15 - MW-15 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
12/15/11
3/15/12
6/21/12
9/6/12
11/16/12
2/21/13
5/30/13
8/13/13
11/7/13
2/11/14
5/22/14
8/15/14
11/6/14
2/25/15
Sampling date
MTBE
Naphthalene
Total BTEX


Graph 16 - MW-16 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
12/15/11
3/15/12
6/21/12
9/6/12
11/16/12
2/21/13
5/29/13
8/13/13
11/7/13
2/11/14
5/22/14
8/15/14
11/7/14
2/25/15
Sampling date
MTBE
Naphthalene
Total BTEX

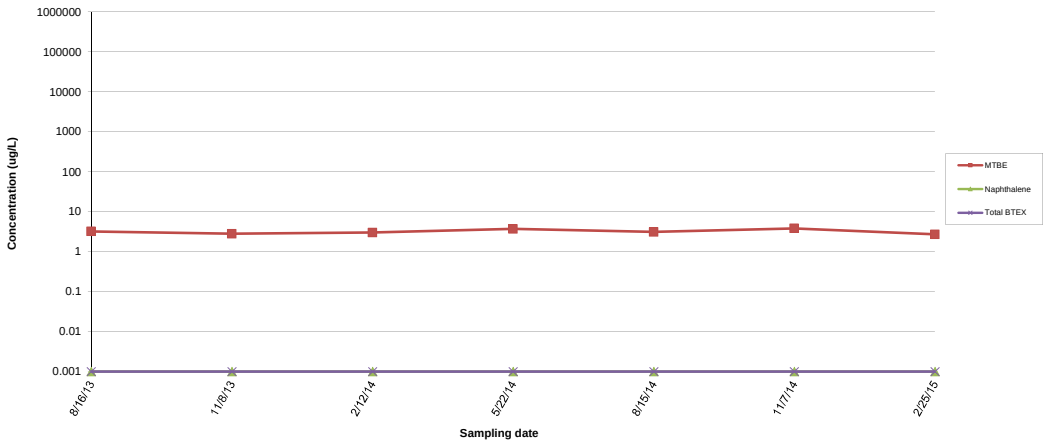
Graph 17 - MW-10D Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



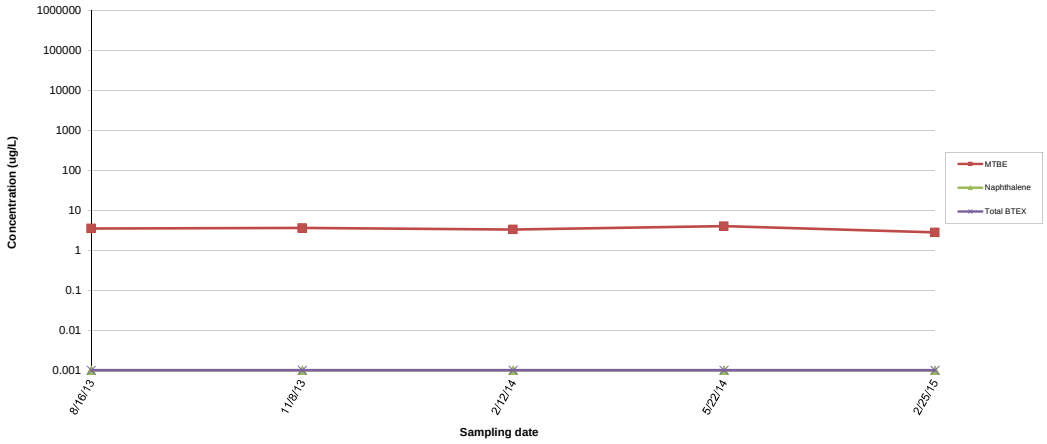
Graph 18 - MW-10D Shallow Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



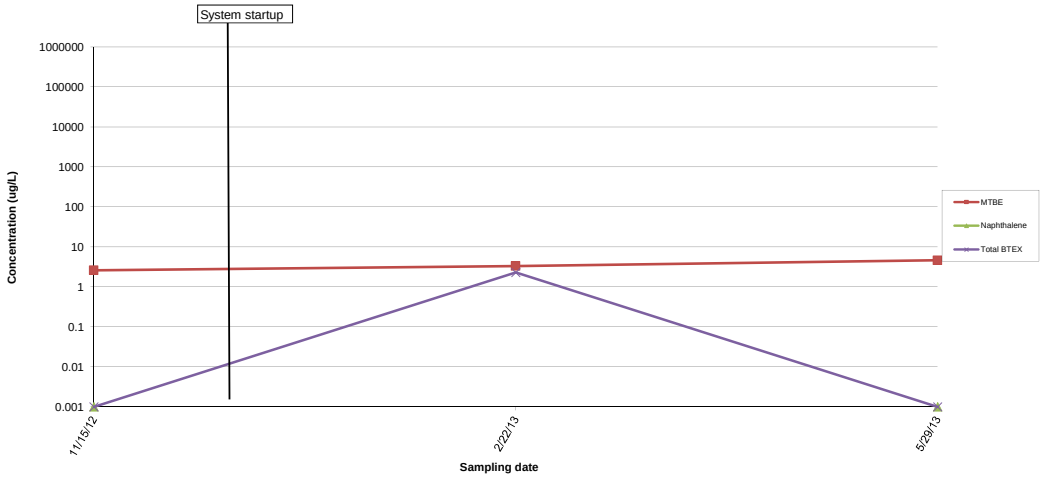
Graph 19 - MW-10D Middle Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



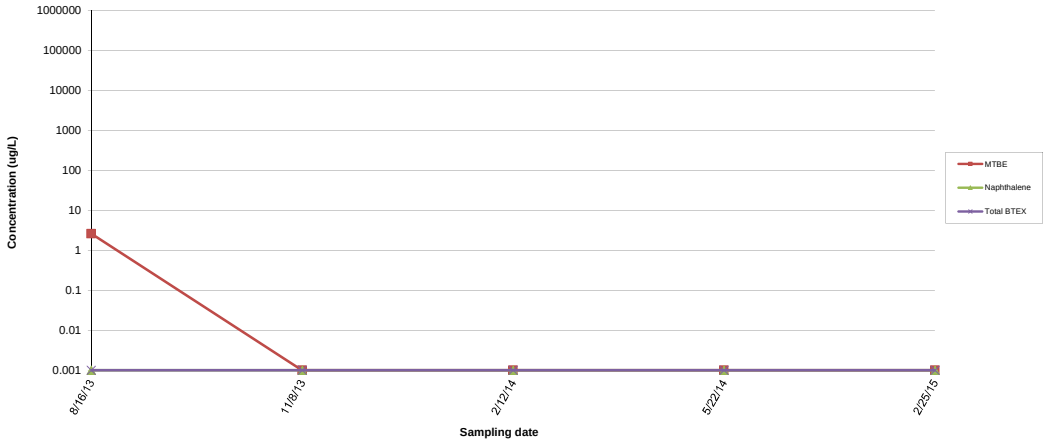
Graph 20 - MW-10D Deep Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



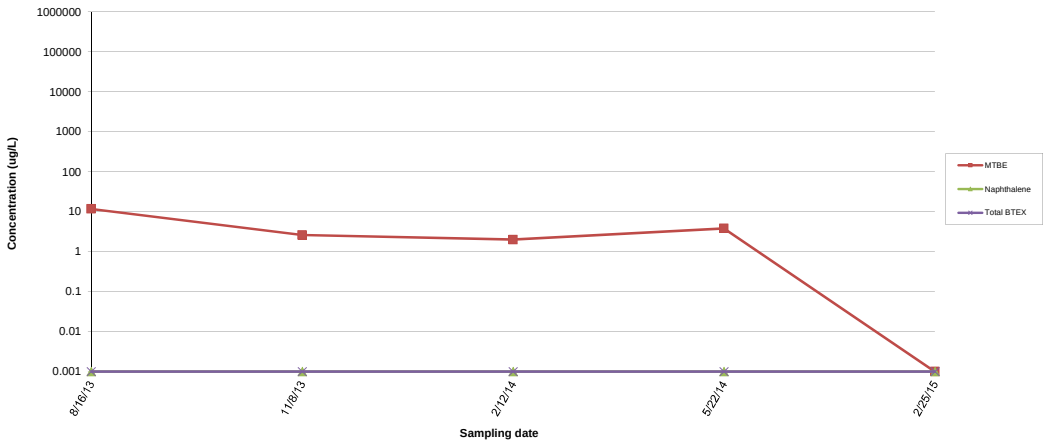
Graph 21 - MW-12D Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 7Mechanics Valley Road, North East, MD



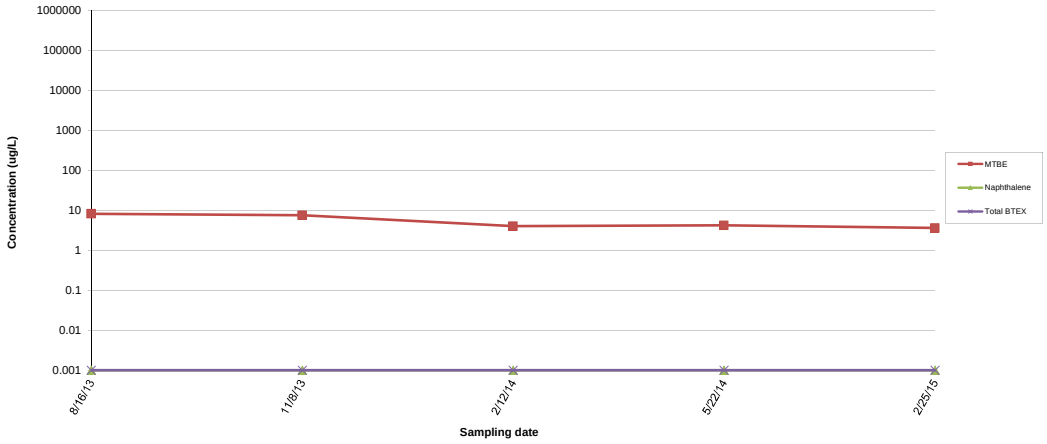
Graph 22 - MW-12D Shallow Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



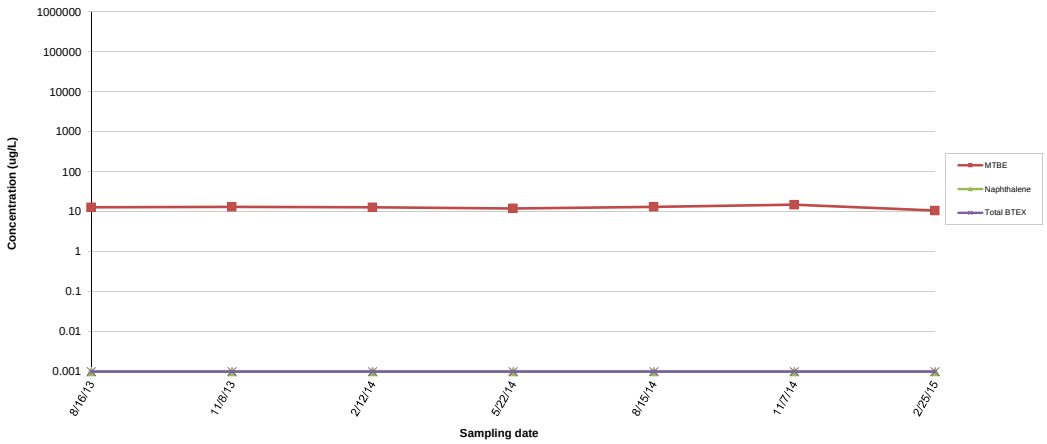
Graph 23 - MW-12D Mid-1 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



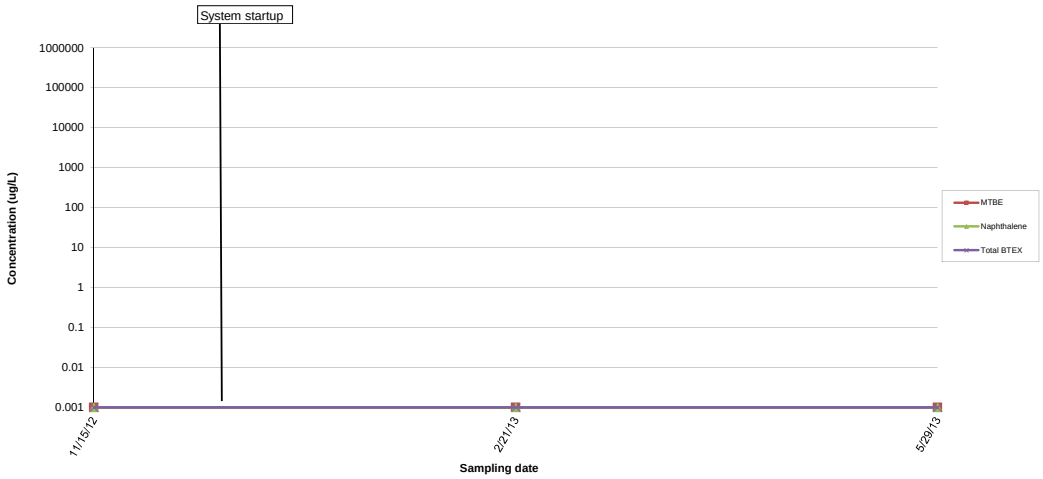
Graph 24 - MW-12D Mid-2 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



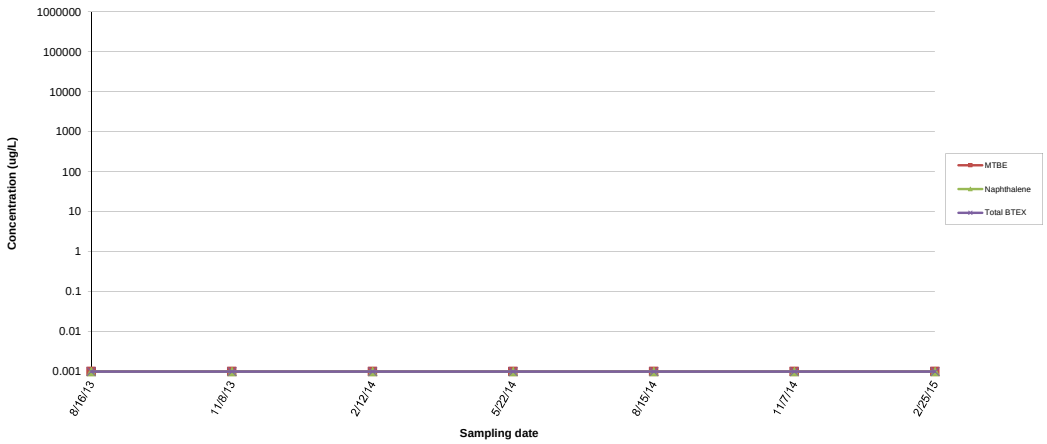
Graph 25 - MW-12D Deep Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



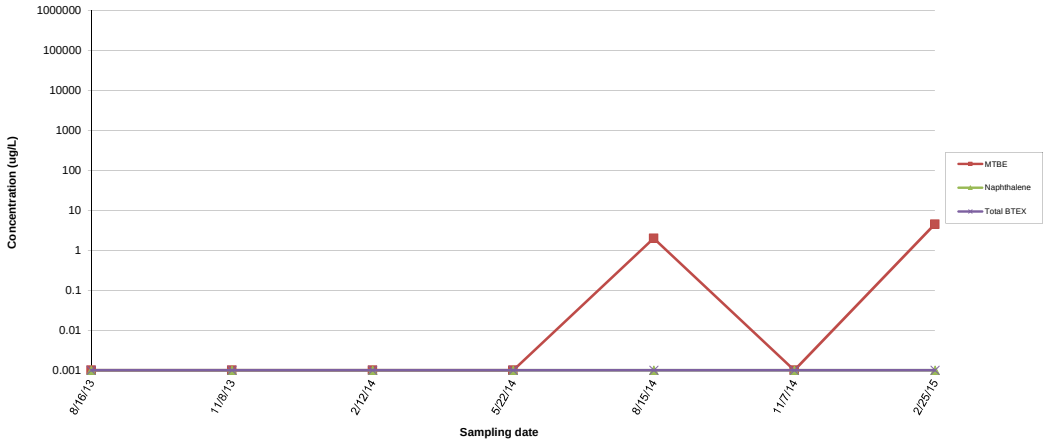
Graph 26 - MW-13 D Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 7Mechanics Valley Road, North East, MD



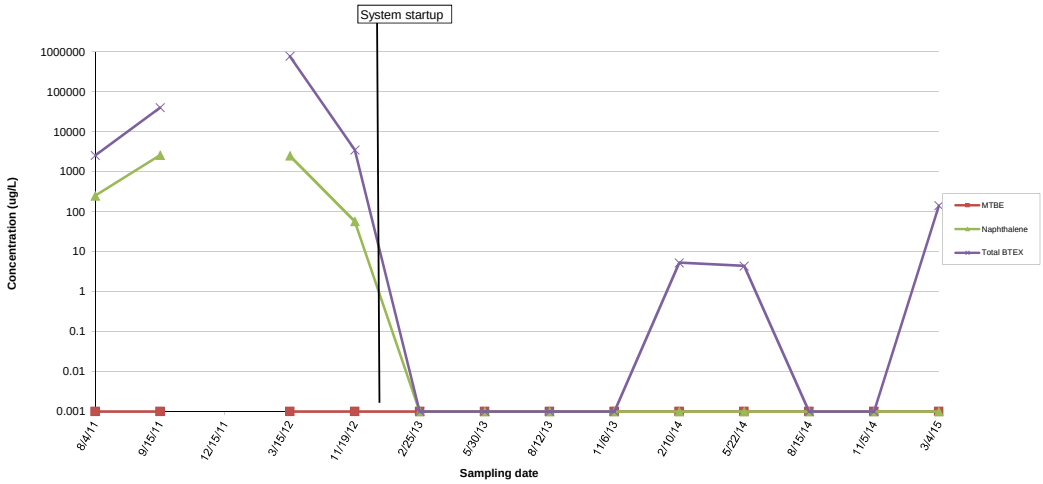
Graph 27 - MW-13D Shallow Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



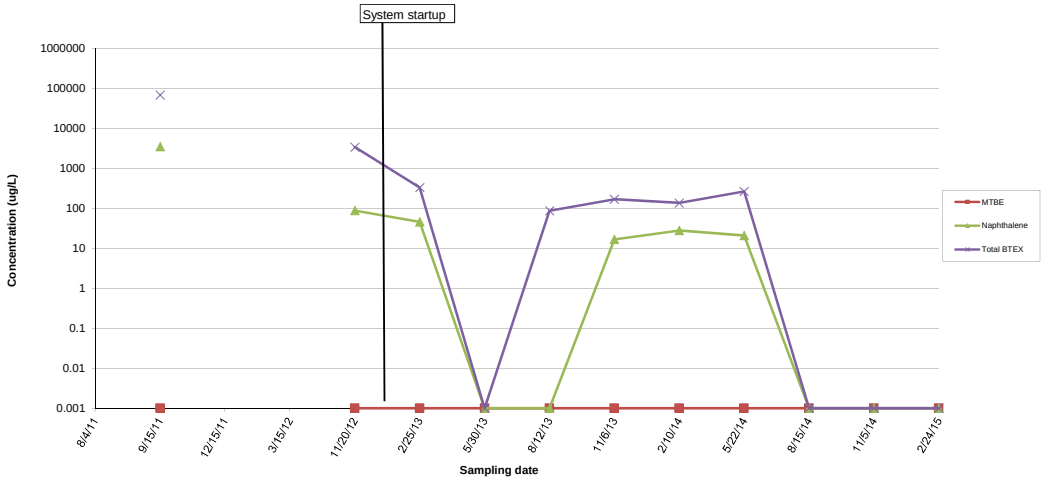
Graph 28 - MW-13D Deep Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



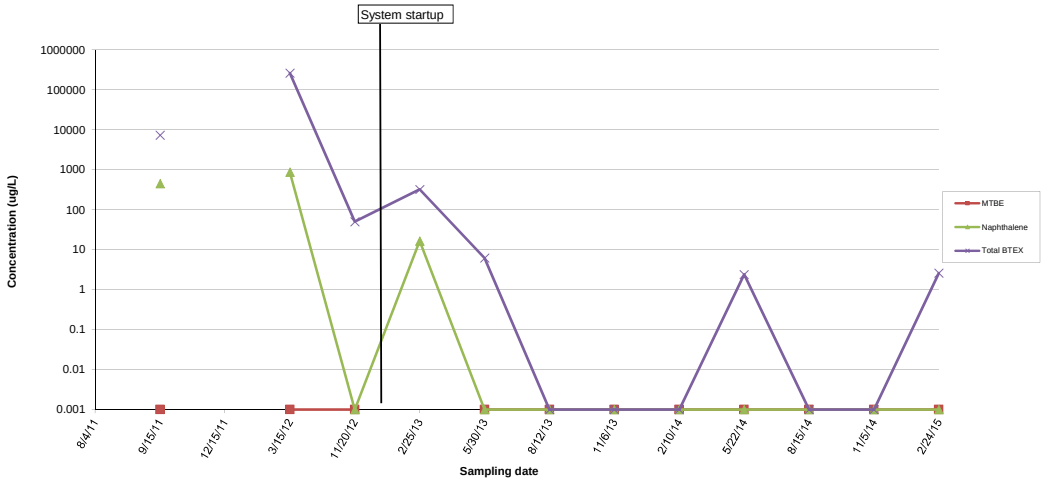
Graph 29 - RW-1 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



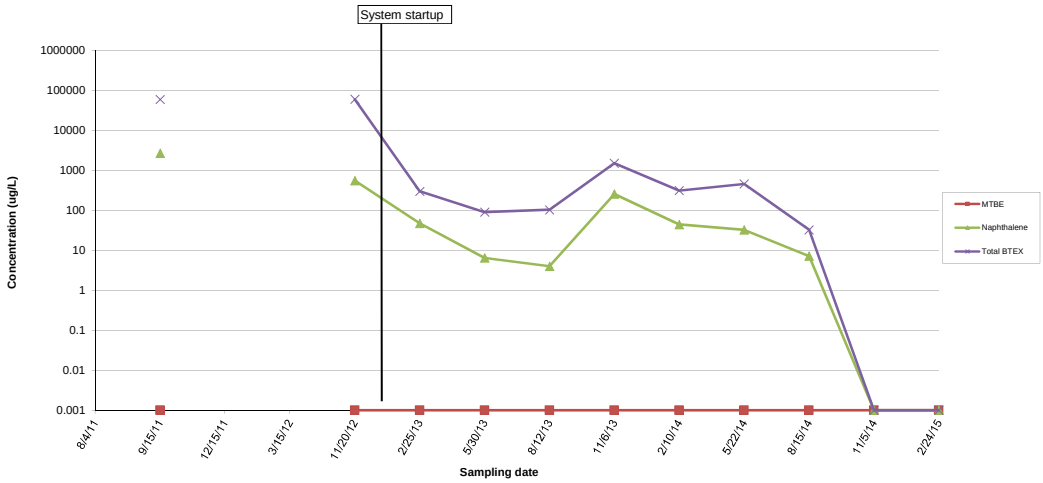
Graph 30 - RW-2 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD

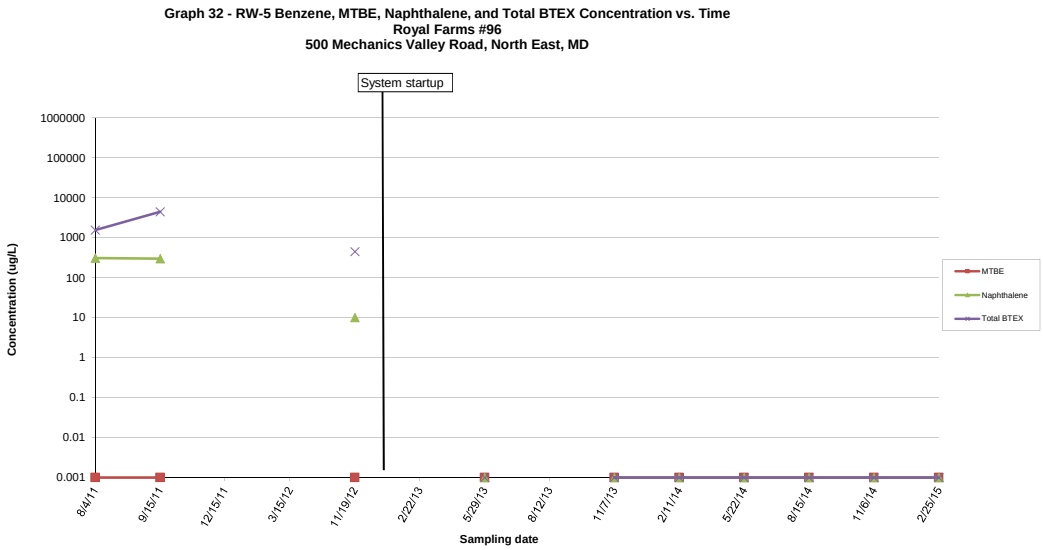


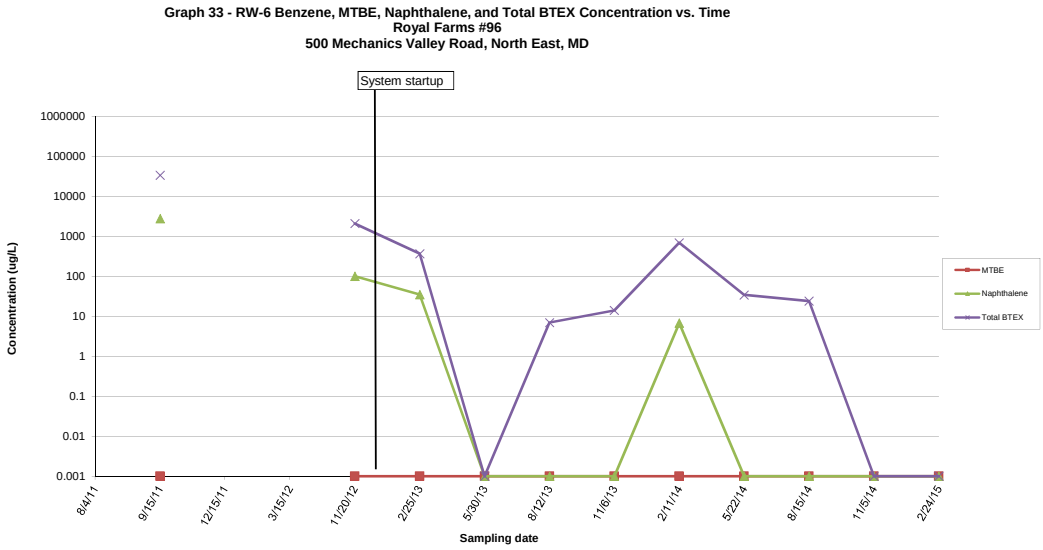
Graph 30 - RW-3 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



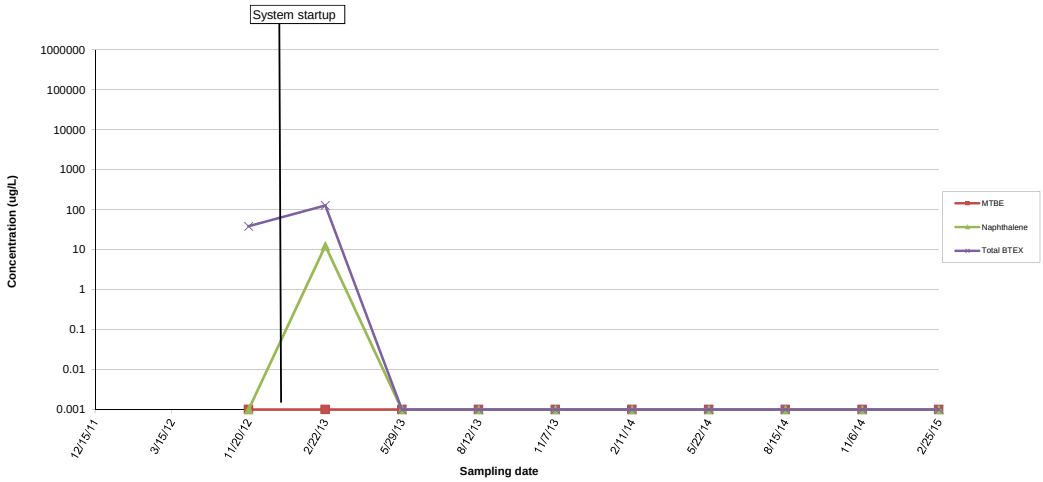
Graph 31 - RW-4 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



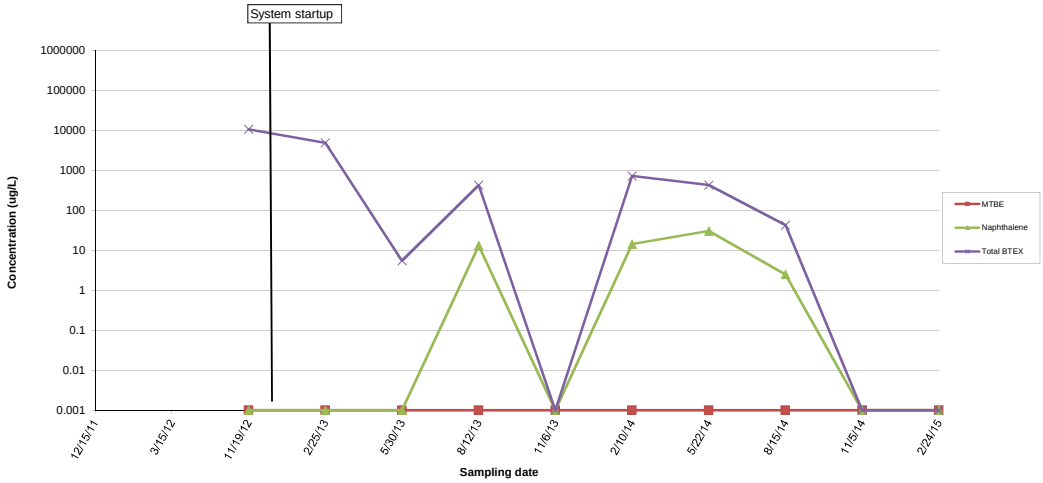

Graph 32 - RW-5 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
8/4/11
9/15/11
12/15/11
3/15/12
11/19/12
2/22/13
5/29/13
8/12/13
11/7/13
2/11/14
5/22/14
8/15/14
11/6/14
2/25/15
Sampling date
MTBE
Naphthalene
Total BTEX


Graph 33 - RW-6 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
8/4/11
9/15/11
12/15/11
3/15/12
11/20/12
2/25/13
5/30/13
8/12/13
11/6/13
2/11/14
5/22/14
8/15/14
11/5/14
2/24/15
Sampling date
MTBE
Naphthalene
Total BTEX

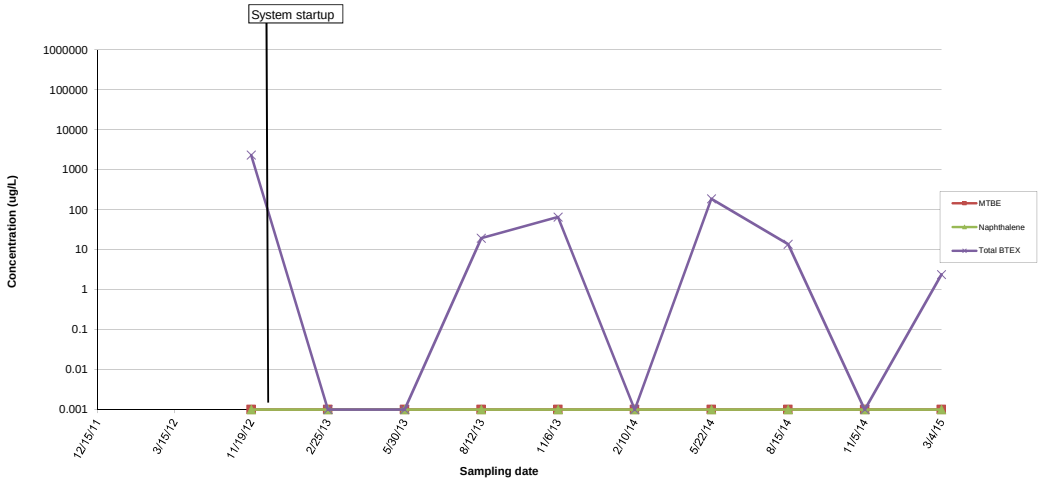
Graph 34 - RW-7 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



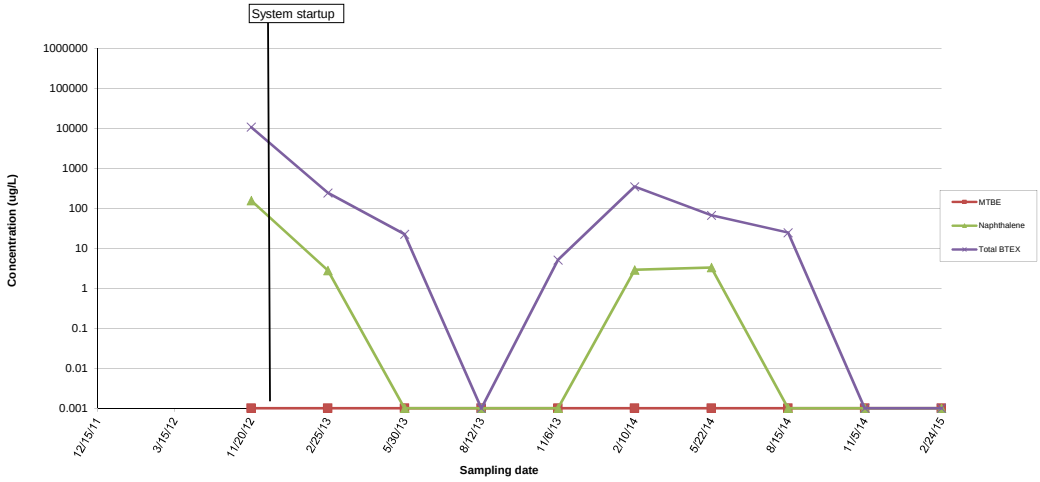
Graph 35 - RW-8 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



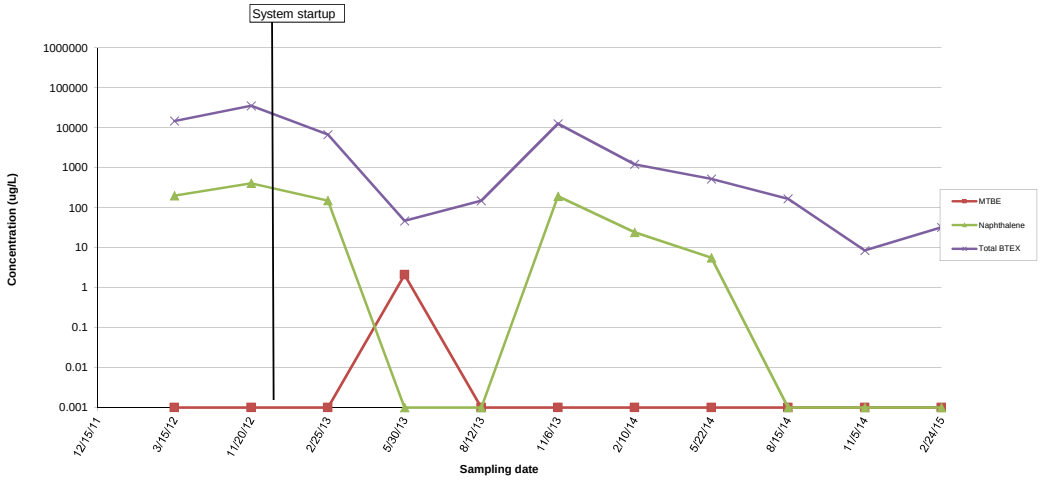
Graph 36 - RW-9 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



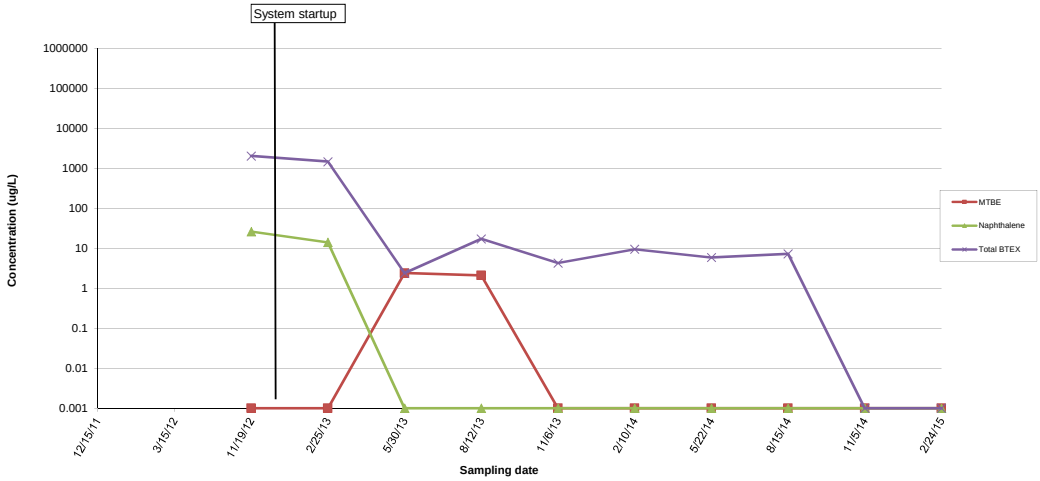
Graph 37 - RW-10 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD

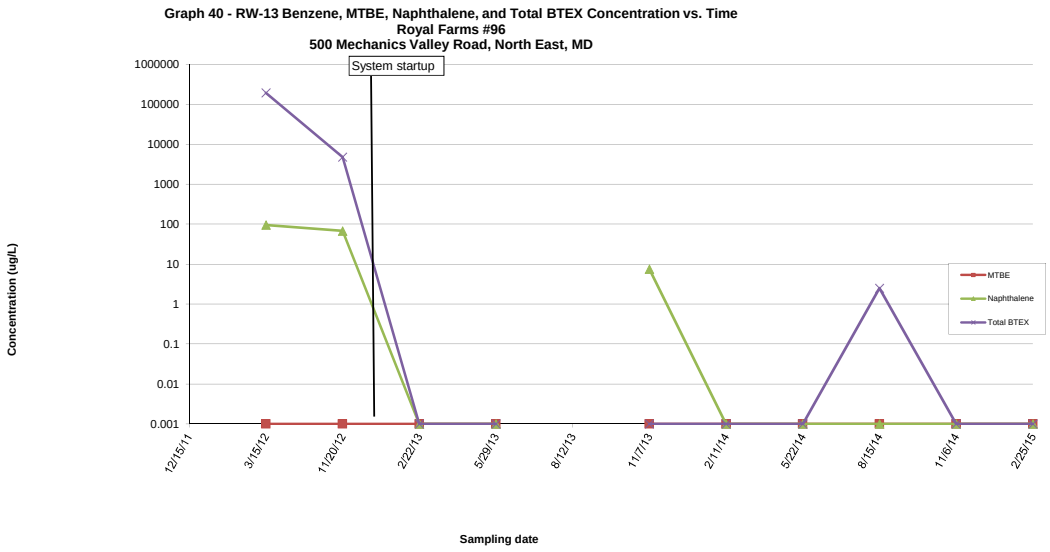


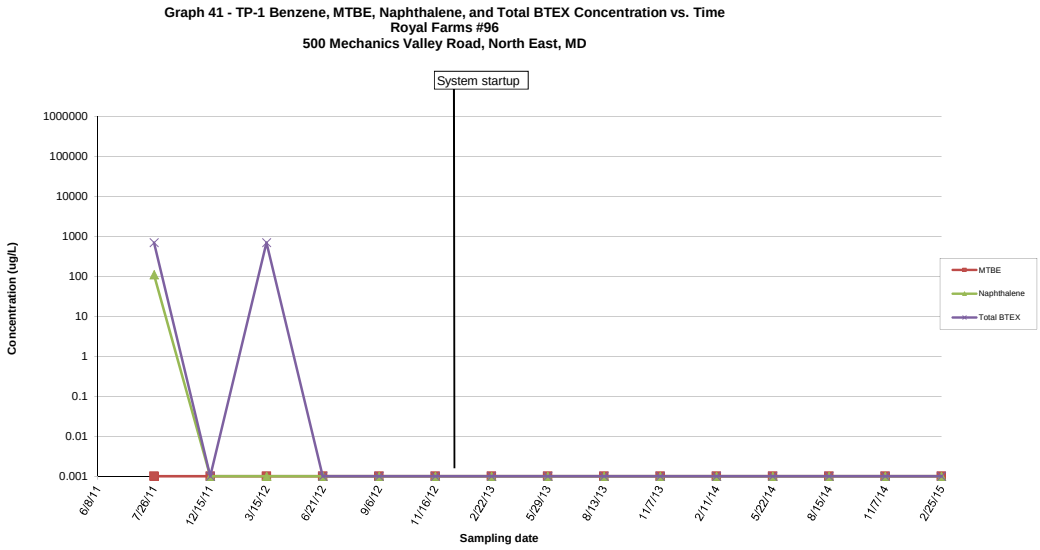
Graph 38 - RW-11 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



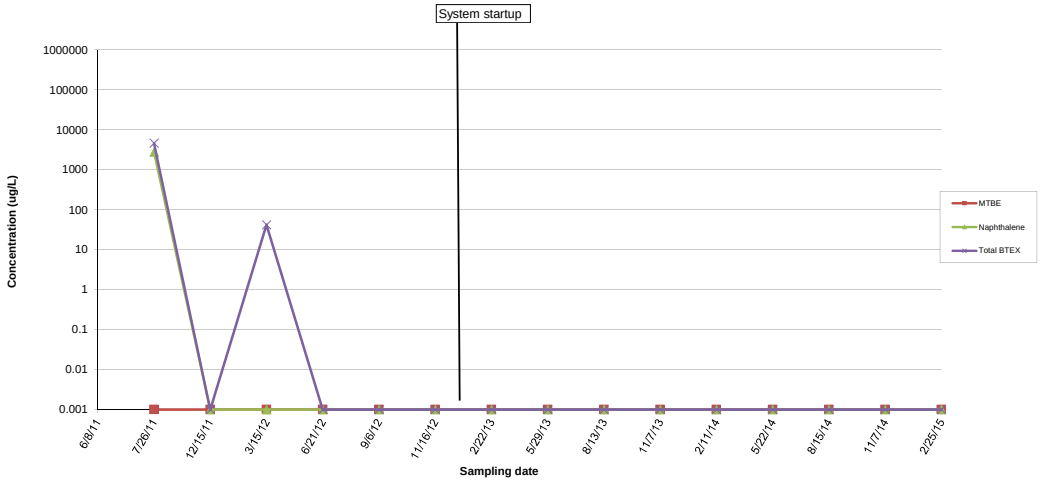
Graph 39 - RW-12 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



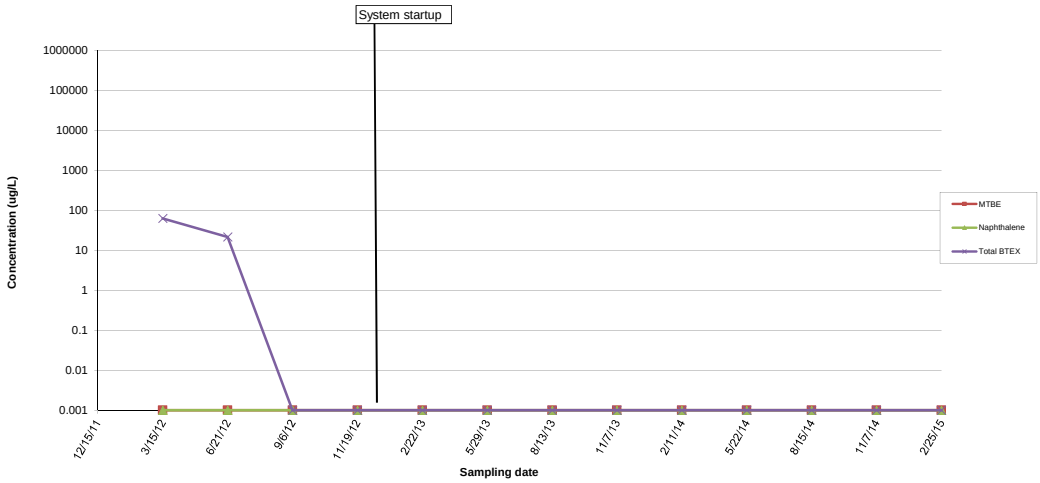

Graph 40 - RW-13 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
12/15/11
3/15/12
11/20/12
2/22/13
5/29/13
8/12/13
11/7/13
2/11/14
5/22/14
8/15/14
11/6/14
2/25/15
Sampling date
MTBE
Naphthalene
Total BTEX


Graph 41 - TP-1 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
6/8/11
7/26/11
12/15/11
3/15/12
6/21/12
9/6/12
11/16/12
2/22/13
5/29/13
8/13/13
11/7/13
2/11/14
5/22/14
8/15/14
11/7/14
2/25/15
Sampling date
MTBE
Naphthalene
Total BTEX

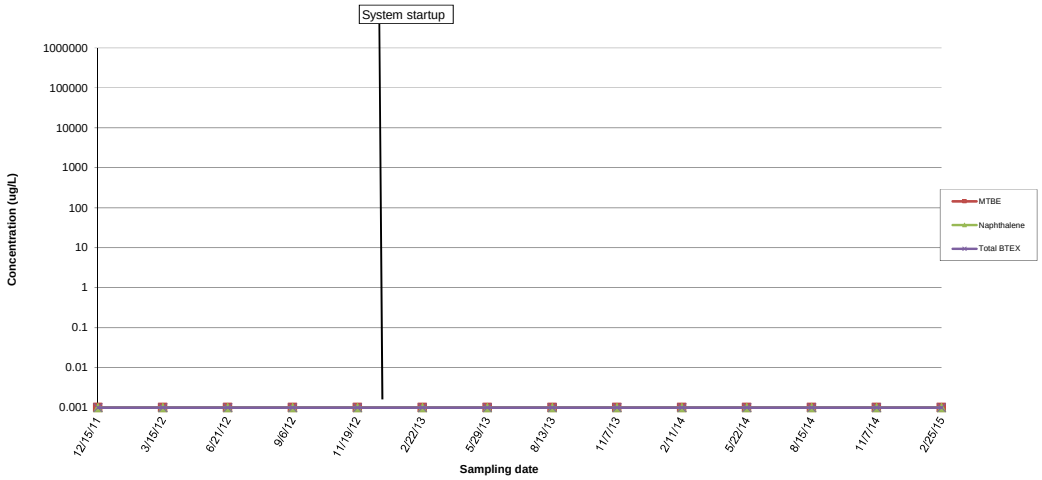
Graph 42 - TP-2 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD

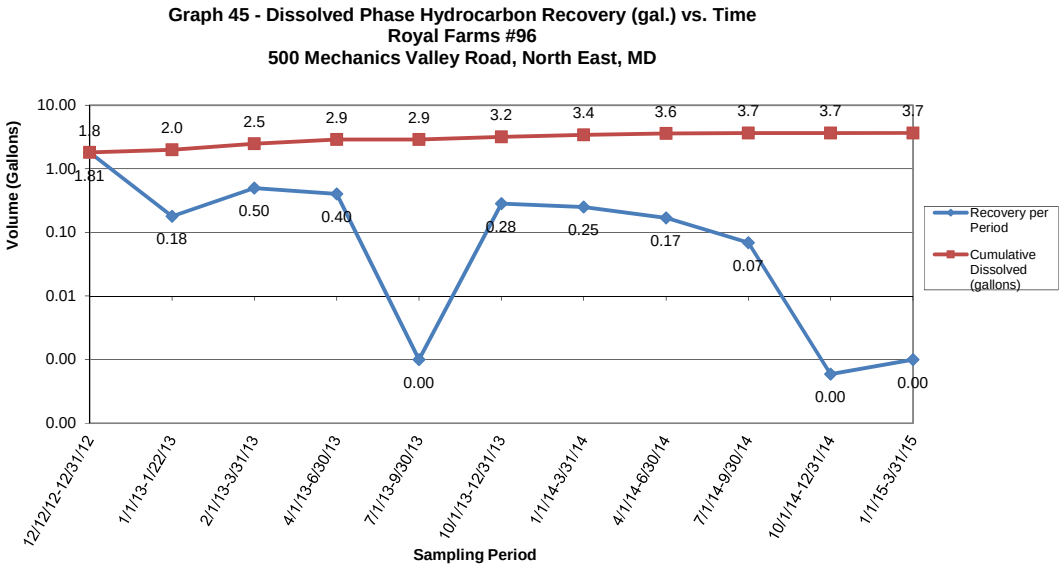


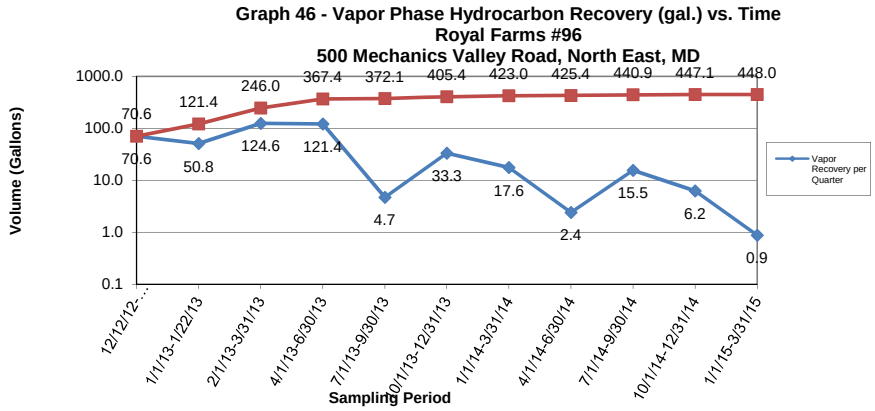
Graph 43 - TP-3 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



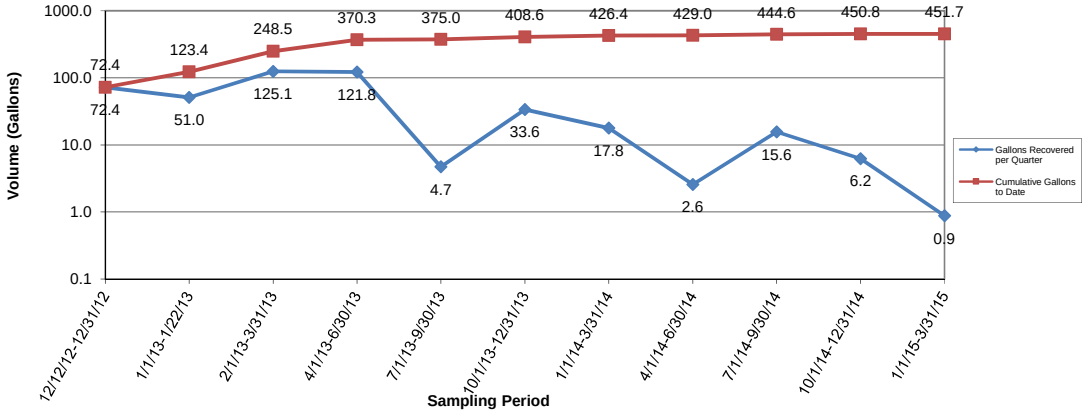
Graph 44 - TP-4 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



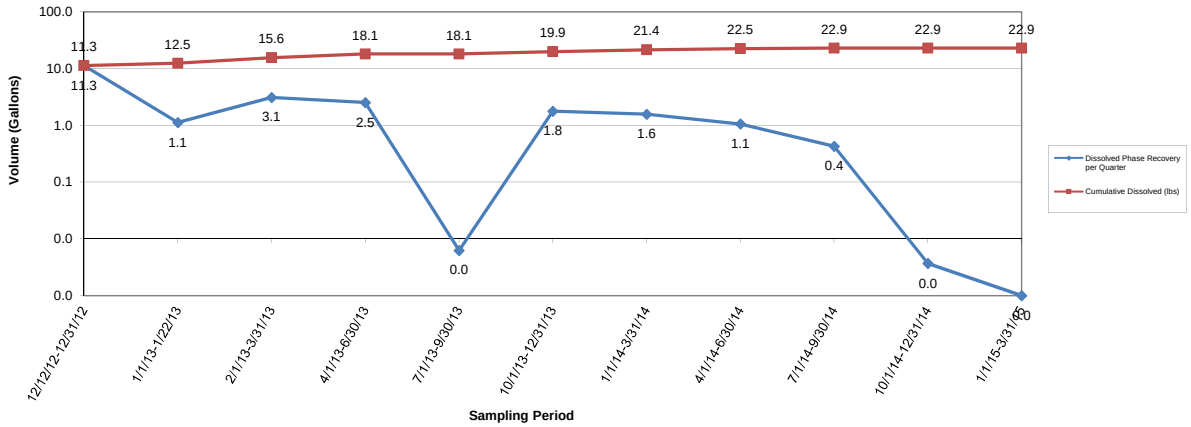

Graph 45 - Dissolved Phase Hydrocarbon Recovery (gal.) vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
Volume (Gallons)
10.00
1.00
0.10
0.01
0.00
0.00
1.8
2.0
2.5
2.9
2.9
3.2
3.4
3.6
3.7
3.7
3.7
1.81
0.18
0.50
0.40
0.00
0.28
0.25
0.17
0.07
0.00
0.00
12/12/12-12/31/12
1/1/13-1/22/13
2/1/13-3/31/13
4/1/13-6/30/13
7/1/13-9/30/13
10/1/13-12/31/13
1/1/14-3/31/14
4/1/14-6/30/14
7/1/14-9/30/14
10/1/14-12/31/14
1/1/15-3/31/15
Sampling Period
Recovery per Period
Cumulative Dissolved (gallons)


Graph 46 - Vapor Phase Hydrocarbon Recovery (gal.) vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
Volume (Gallons)
1000.0
100.0
10.0
1.0
0.1
70.6
121.4
246.0
367.4
372.1
405.4
423.0
425.4
440.9
447.1
448.0
70.6
50.8
124.6
121.4
4.7
33.3
17.6
2.4
15.5
6.2
0.9
12/12/12-...
1/1/13-1/22/13
2/1/13-3/31/13
4/1/13-6/30/13
7/1/13-9/30/13
10/1/13-12/31/13
1/1/14-3/31/14
4/1/14-6/30/14
7/1/14-9/30/14
10/1/14-12/31/14
1/1/15-3/31/15
Sampling Period
Vapor Recovery per Quarter

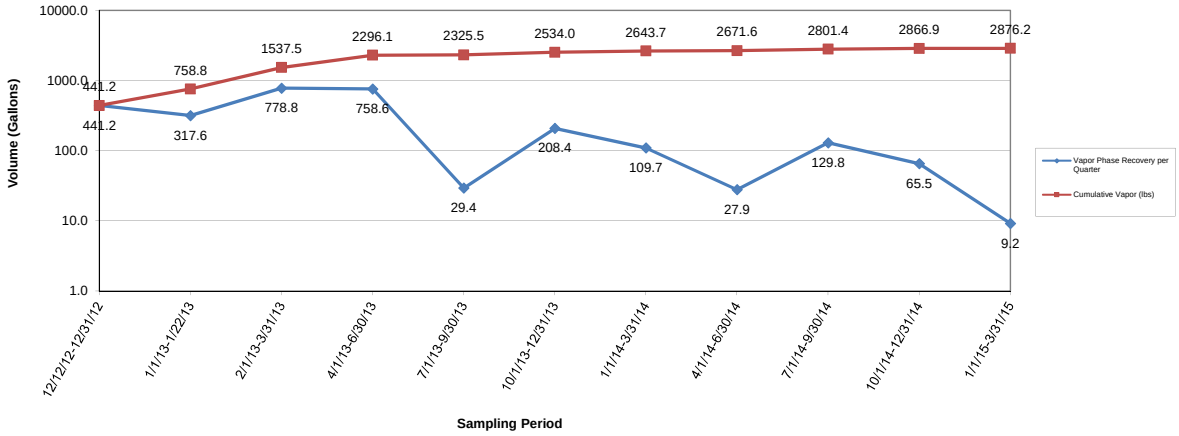
Graph 47 - Total Petroleum Hydrocarbon Recovery (gal.) vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



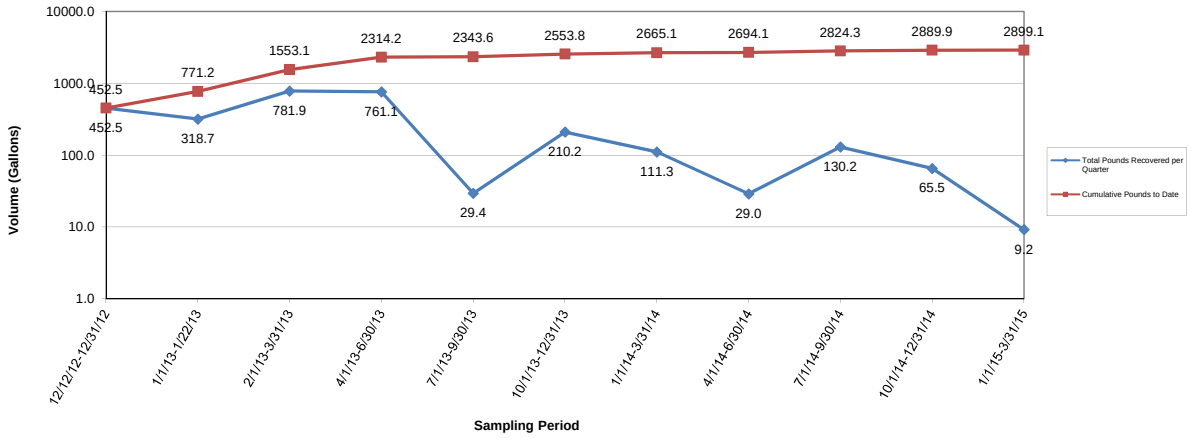
Graph 48 - Dissolved Phase Hydrocarbon Recovery (lbs.) vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



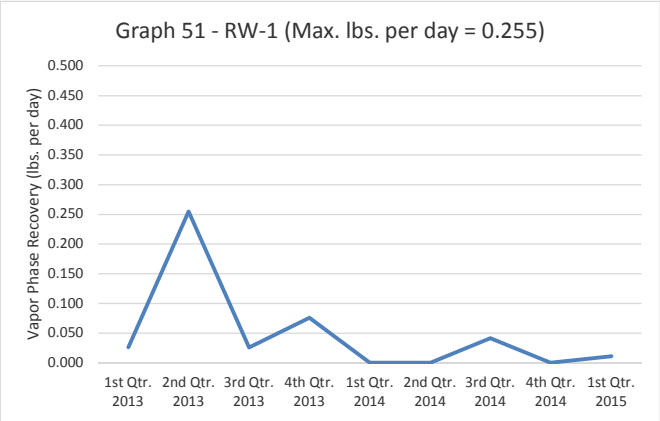
Graph 49 - Vapor Phase Hydrocarbon Recovery (lbs.) vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD

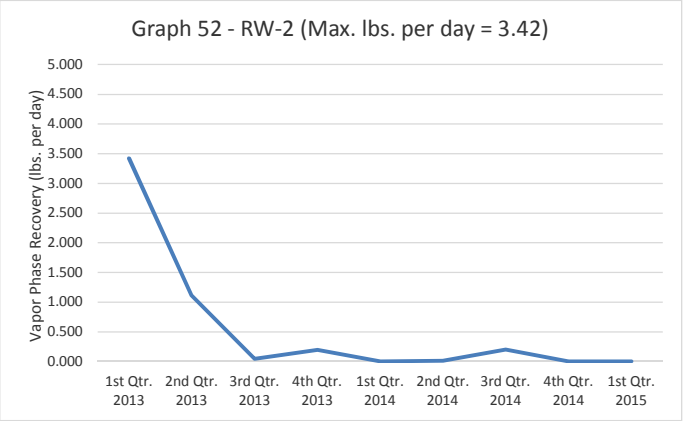


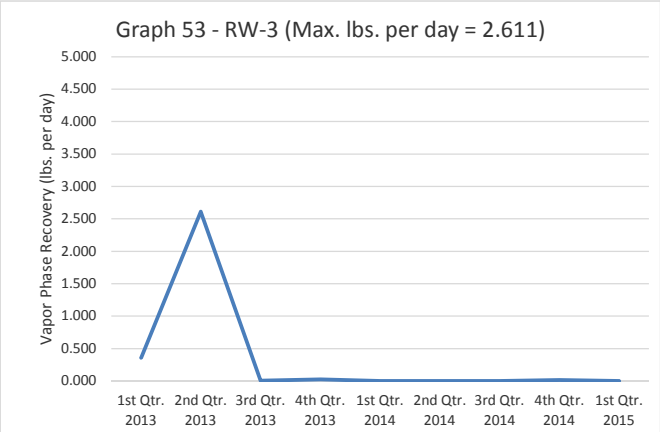
Graph 50 - Total Petroleum Hydrocarbon Recovery (lbs.) vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD

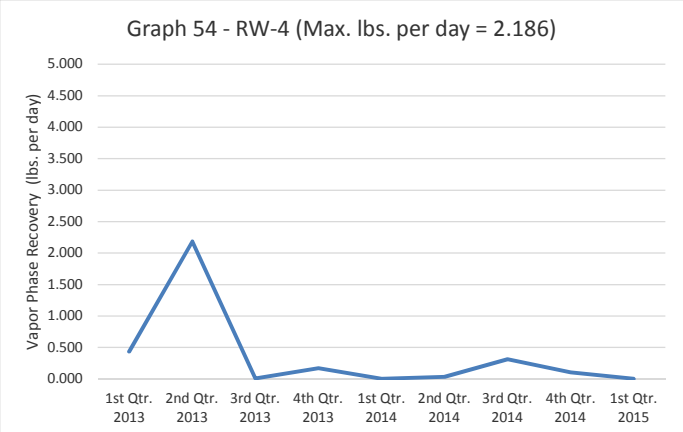


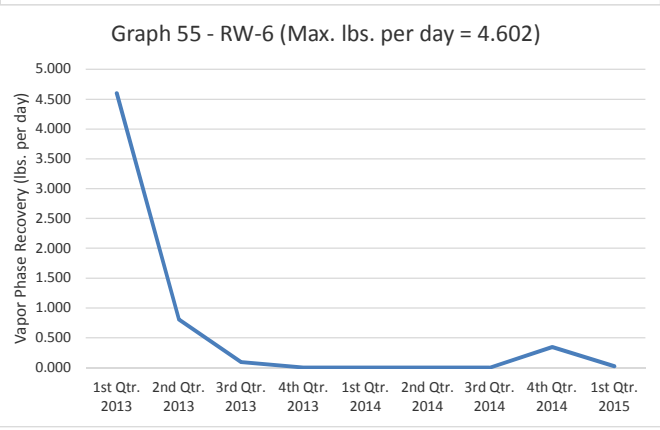
Total Vapor Petroleum Hydrocarbon Recovery (lbs. per day) vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD

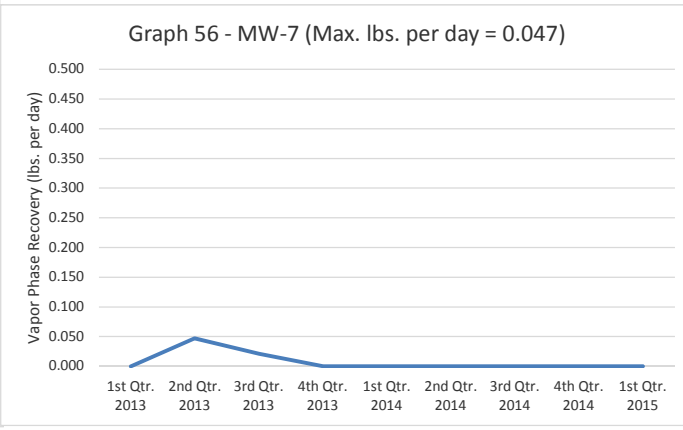




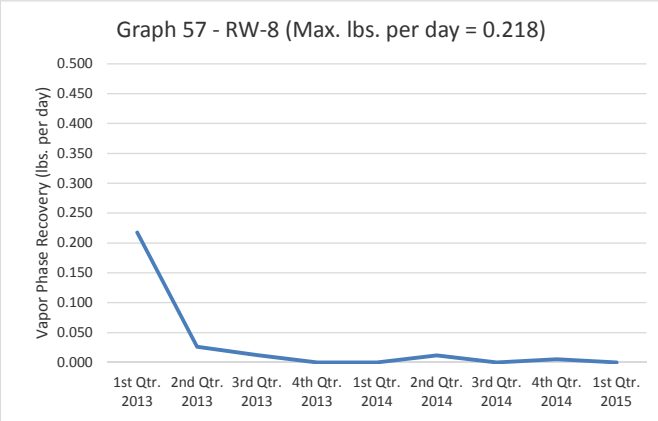


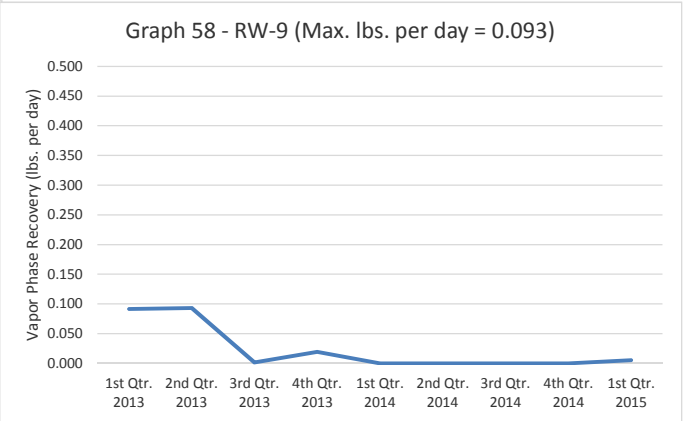


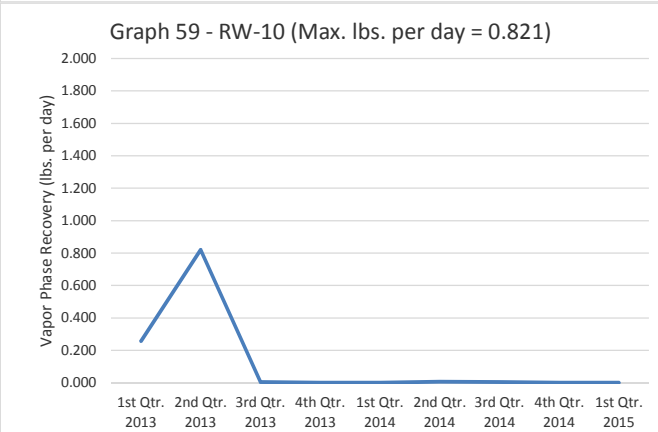


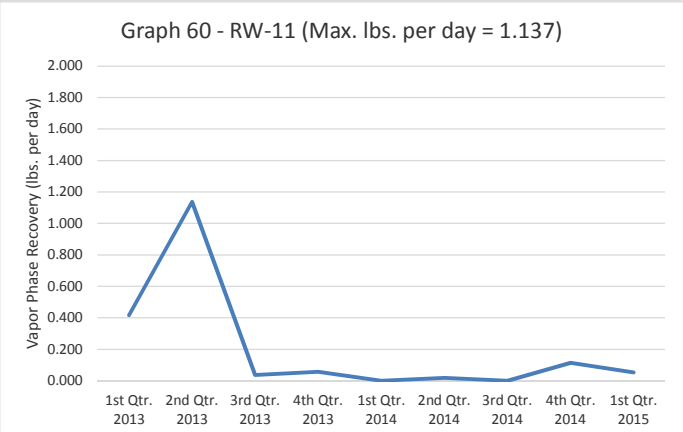


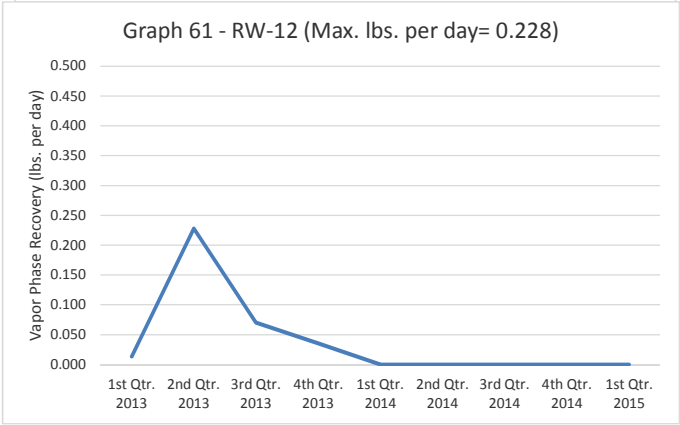
Total Vapor Petroleum Hydrocarbon Recovery (lbs. per day) vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



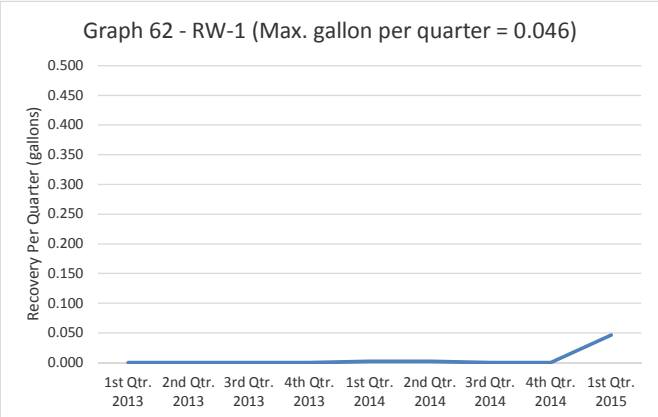


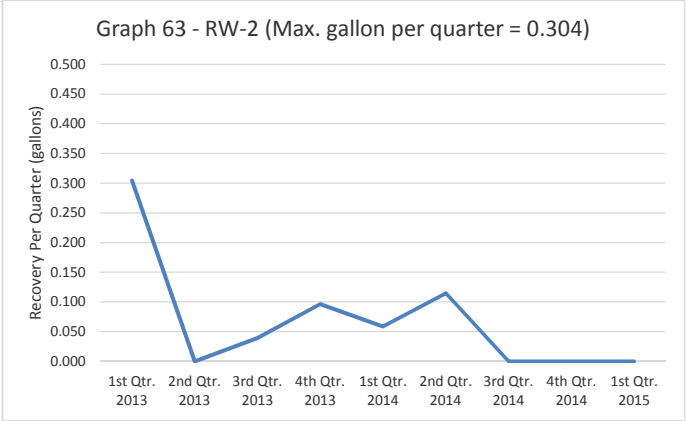


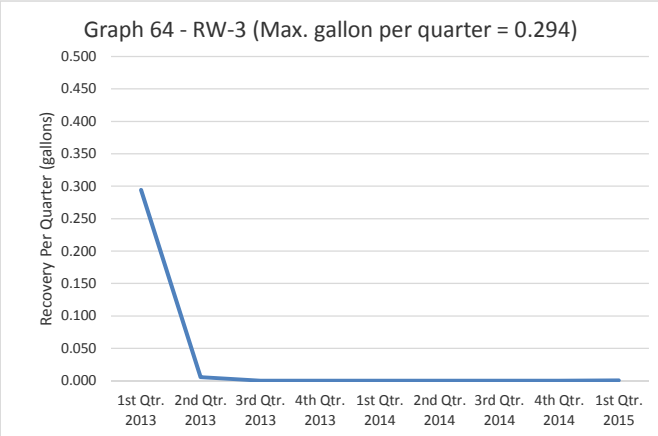


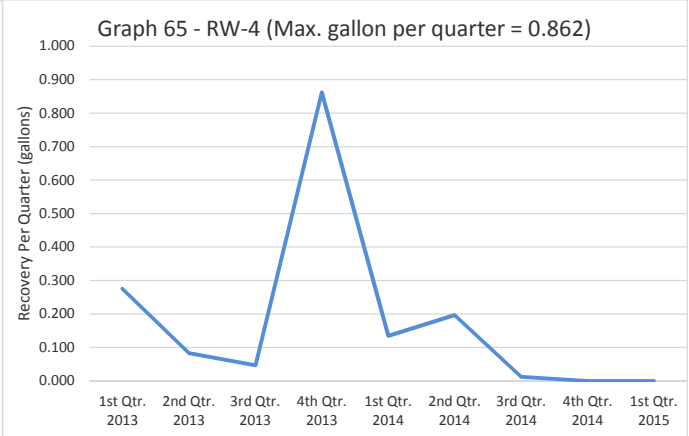


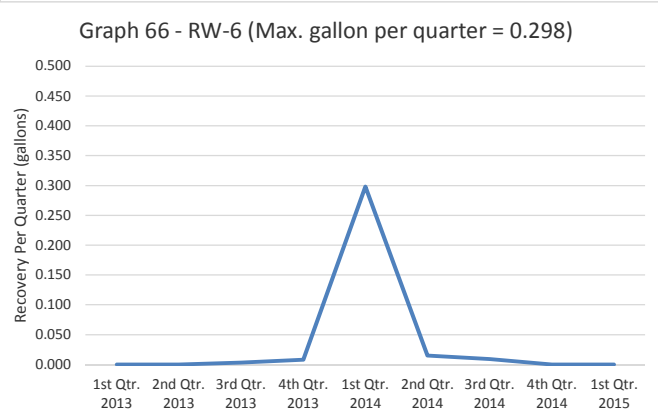
Total Dissolved Petroleum Hydrocarbon Recovery (gal.) vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD

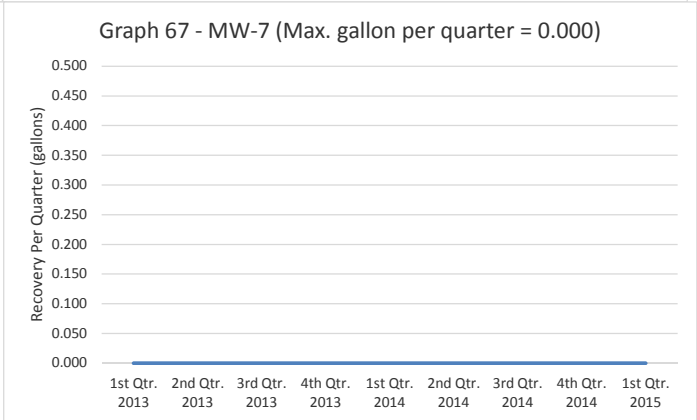




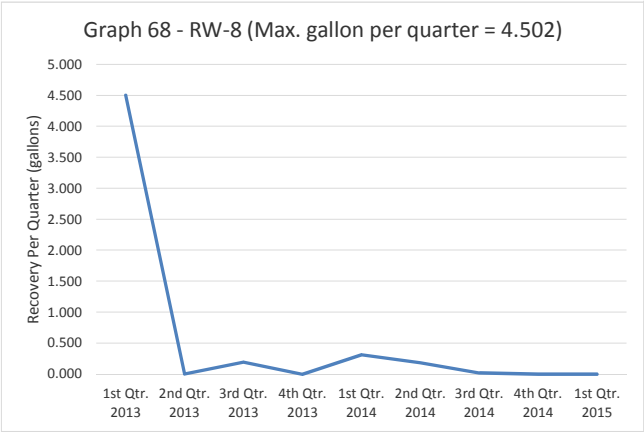


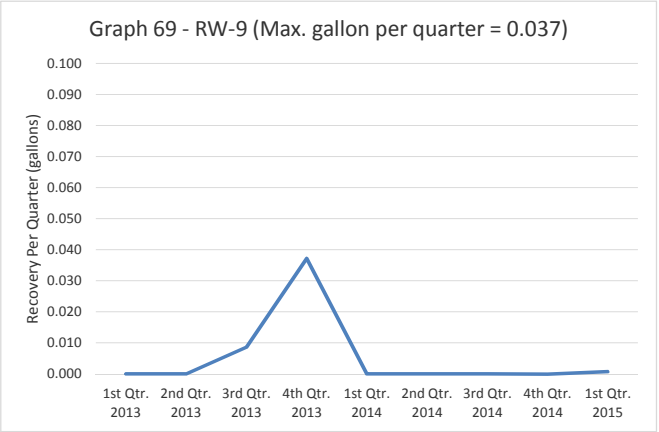


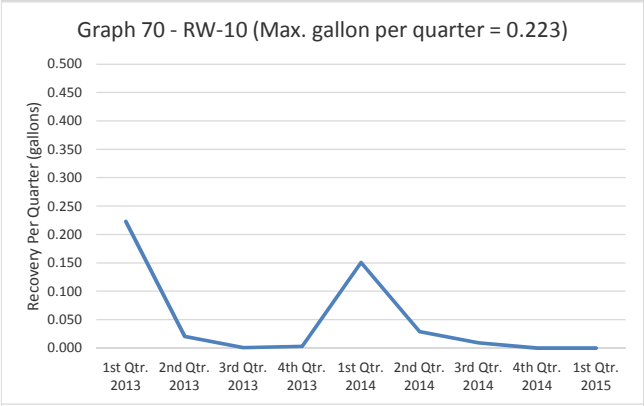


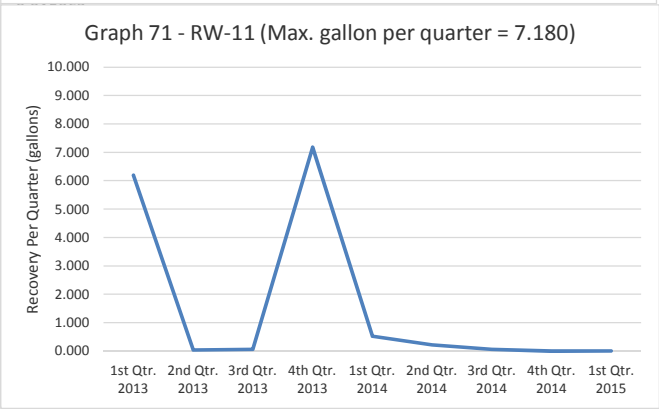


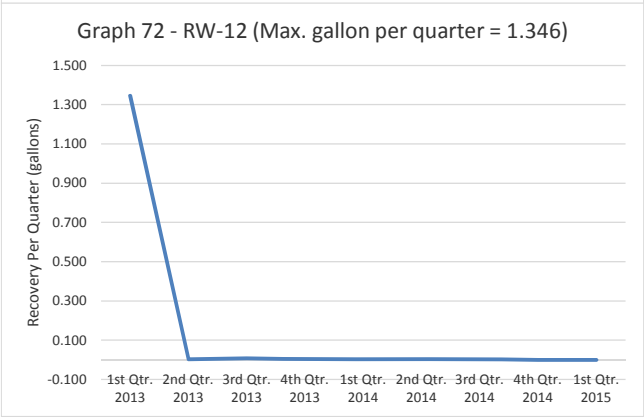
Total Dissolved Petroleum Hydrocarbon Recovery (gal.) vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD











Attachment D

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: 05-056-RF96

Project Number: N/A

Project Manager: James Wolf

Report Issued: 03/05/15 09:26

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		RW-10	MW-7	RW-12	RW-8	RW-3	RW-4
LAB SAMPLE ID:		5022412-01	5022412-02	5022412-03	5022412-04	5022412-05	5022412-06
SAMPLE DATE:		02/24/15	02/24/15	02/24/15	02/24/15	02/24/15	02/24/15
RECEIVED DATE:		02/24/15	02/24/15	02/24/15	02/24/15	02/24/15	02/24/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (Water)							
Acetone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	**47.5**
tert-Amyl alcohol (TAA)	ug/L	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
tert-Amyl methyl ether (TAME)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Benzene	ug/L	<2.0	<2.0	<2.0	<2.0	**2.6 [3]**	<2.0
Bromobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromochloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromodichloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromomethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butanol (TBA)	ug/L	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0
2-Butanone (MEK)	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
n-Butylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
sec-Butylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
tert-Butylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Chlorotoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Chlorotoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromochloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dibromo-3-chloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dibromoethane (EDB)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromomethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,4-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dichlorodifluoromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
cis-1,2-Dichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
trans-1,2-Dichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dichlorofluoromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

1 = This value is due primarily to the presence of 2-Ethylhexanoic Acid, a common ingredient of Zerex Antifreeze.

2 = The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).

3 = Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).

4 = Surrogate recovery and/or internal standard area are outside control limits due to sample matrix effect.

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Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: 05-056-RF96

Project Number: N/A

Project Manager: James Wolf

Report Issued: 03/05/15 09:26

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		RW-10	MW-7	RW-12	RW-8	RW-3	RW-4
LAB SAMPLE ID:		5022412-01	5022412-02	5022412-03	5022412-04	5022412-05	5022412-06
SAMPLE DATE:		02/24/15	02/24/15	02/24/15	02/24/15	02/24/15	02/24/15
RECEIVED DATE:		02/24/15	02/24/15	02/24/15	02/24/15	02/24/15	02/24/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)							
1,2-Dichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3-Dichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2,2-Dichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
cis-1,3-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
trans-1,3-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Diisopropyl ether (DIPE)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethyl tert-butyl ether (ETBE)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hexachlorobutadiene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-Hexanone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene (Cumene)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Isopropyltoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methyl tert-butyl ether (MTBE)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Methyl-2-pentanone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Methylene chloride	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Naphthalene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
n-Propylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,1,2-Tetrachloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,2,2-Tetrachloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Tetrachloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,3-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,4-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,1-Trichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,2-Trichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichlorofluoromethane (Freon 11)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,3-Trichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,4-Trimethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3,5-Trimethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
m- & p-Xylenes	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane-d4	[surr]	103%	104%	106%	106%	107%	107%

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Analytical Results

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410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: 05-056-RF96

Project Number: N/A
Project Manager: James Wolf
Report Issued: 03/05/15 09:26

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		RW-10	MW-7	RW-12	RW-8	RW-3	RW-4
LAB SAMPLE ID:		5022412-01	5022412-02	5022412-03	5022412-04	5022412-05	5022412-06
SAMPLE DATE:		02/24/15	02/24/15	02/24/15	02/24/15	02/24/15	02/24/15
RECEIVED DATE:		02/24/15	02/24/15	02/24/15	02/24/15	02/24/15	02/24/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)							
Toluene-d8	[surr]	97.5%	98.0%	97.6%	96.9%	97.7%	97.3%
4-Bromofluorobenzene	[surr]	91.3%	91.1%	90.2%	89.8%	90.3%	89.7%
GASOLINE RANGE ORGANICS BY EPA 8015B (Water)							
Gasoline-Range Organics	ug/L	<100	<100	<100	<100	<100	<100
a,a,a-Trifluorotoluene	[surr]	100%	101%	101%	101%	100%	100%
DIESEL RANGE ORGANICS BY EPA 3510/8015B (Water)							
Diesel-Range Organics	mg/L	<0.20	<0.20	<0.21	<0.22	<0.19	**0.20**
o-Terphenyl	[surr]	105%	79.5%	99.1%	106%	106%	109%

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Maryland spectral Services
Analytical Chemistry Services

Analytical Results

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Project: 05-056-RF96

Project Number: N/A
Project Manager: James Wolf
Report Issued: 03/05/15 09:26

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		RW-6	RW-11	RW-2
LAB SAMPLE ID:		5022412-07	5022412-08	5022412-09
SAMPLE DATE:		02/24/15	02/24/15	02/24/15
RECEIVED DATE:		02/24/15	02/24/15	02/24/15
MATRIX	Units	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (Water)				
Acetone	ug/L	**350 [2]**	<10.0	<10.0
tert-Amyl alcohol (TAA)	ug/L	<20.0	**271**	<20.0
tert-Amyl methyl ether (TAME)	ug/L	<2.0	<2.0	<2.0
Benzene	ug/L	<2.0	**30.0**	<2.0
Bromobenzene	ug/L	<2.0	<2.0	<2.0
Bromochloromethane	ug/L	<2.0	<2.0	<2.0
Bromodichloromethane	ug/L	<2.0	<2.0	<2.0
Bromoform	ug/L	<2.0	<2.0	<2.0
Bromomethane	ug/L	<5.0	<5.0	<5.0
tert-Butanol (TBA)	ug/L	<15.0	<15.0	<15.0
2-Butanone (MEK)	ug/L	**62.8**	<10.0	<10.0
n-Butylbenzene	ug/L	<2.0	<2.0	<2.0
sec-Butylbenzene	ug/L	<2.0	<2.0	<2.0
tert-Butylbenzene	ug/L	<2.0	<2.0	<2.0
Carbon disulfide	ug/L	**6.1**	**18.1**	<2.0
Carbon tetrachloride	ug/L	<2.0	<2.0	<2.0
Chlorobenzene	ug/L	<2.0	<2.0	<2.0
Chloroethane	ug/L	<5.0	<5.0	<5.0
Chloroform	ug/L	<2.0	<2.0	<2.0
Chloromethane	ug/L	<5.0	<5.0	<5.0
2-Chlorotoluene	ug/L	<2.0	<2.0	<2.0
4-Chlorotoluene	ug/L	<2.0	<2.0	<2.0
Dibromochloromethane	ug/L	<2.0	<2.0	<2.0
1,2-Dibromo-3-chloropropane	ug/L	<2.0	<2.0	<2.0
1,2-Dibromoethane (EDB)	ug/L	<2.0	<2.0	<2.0
Dibromomethane	ug/L	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0
1,3-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0
1,4-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0
Dichlorodifluoromethane	ug/L	<2.0	<2.0	<2.0
1,1-Dichloroethane	ug/L	<2.0	<2.0	<2.0
1,2-Dichloroethane	ug/L	<2.0	<2.0	<2.0
1,1-Dichloroethene	ug/L	<2.0	<2.0	<2.0
cis-1,2-Dichloroethene	ug/L	<2.0	<2.0	<2.0
trans-1,2-Dichloroethene	ug/L	<2.0	<2.0	<2.0
Dichlorofluoromethane	ug/L	<2.0	<2.0	<2.0

1 = This value is due primarily to the presence of 2-Ethylhexanoic Acid, a common ingredient of Zerex Antifreeze.
2 = The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
3 = Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).
4 = Surrogate recovery and/or internal standard area are outside control limits due to sample matrix effect.
As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: 05-056-RF96

Project Number: N/A
Project Manager: James Wolf
Report Issued: 03/05/15 09:26

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		RW-6	RW-11	RW-2
LAB SAMPLE ID:		5022412-07	5022412-08	5022412-09
SAMPLE DATE:		02/24/15	02/24/15	02/24/15
RECEIVED DATE:		02/24/15	02/24/15	02/24/15
MATRIX	Units	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)				
1,2-Dichloropropane	ug/L	<2.0	<2.0	<2.0
1,3-Dichloropropane	ug/L	<2.0	<2.0	<2.0
2,2-Dichloropropane	ug/L	<2.0	<2.0	<2.0
1,1-Dichloropropene	ug/L	<2.0	<2.0	<2.0
cis-1,3-Dichloropropene	ug/L	<2.0	<2.0	<2.0
trans-1,3-Dichloropropene	ug/L	<2.0	<2.0	<2.0
Diisopropyl ether (DIPE)	ug/L	<2.0	**2.8 [3]**	<2.0
Ethyl tert-butyl ether (ETBE)	ug/L	<2.0	<2.0	<2.0
Ethylbenzene	ug/L	<2.0	<2.0	<2.0
Hexachlorobutadiene	ug/L	<2.0	<2.0	<2.0
2-Hexanone	ug/L	<10.0	<10.0	<10.0
Isopropylbenzene (Cumene)	ug/L	<2.0	<2.0	<2.0
4-Isopropyltoluene	ug/L	<2.0	<2.0	<2.0
Methyl tert-butyl ether (MTBE)	ug/L	<2.0	<2.0	<2.0
4-Methyl-2-pentanone	ug/L	<10.0	<10.0	<10.0
Methylene chloride	ug/L	<10.0	<10.0	<10.0
Naphthalene	ug/L	<2.0	<2.0	<2.0
n-Propylbenzene	ug/L	<2.0	<2.0	<2.0
Styrene	ug/L	<2.0	<2.0	<2.0
1,1,1,2-Tetrachloroethane	ug/L	<2.0	<2.0	<2.0
1,1,2,2-Tetrachloroethane	ug/L	<2.0	<2.0	<2.0
Tetrachloroethene	ug/L	<2.0	<2.0	<2.0
Toluene	ug/L	<2.0	**2.4 [3]**	<2.0
1,2,3-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0
1,2,4-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0
1,1,1-Trichloroethane	ug/L	<2.0	<2.0	<2.0
1,1,2-Trichloroethane	ug/L	<2.0	<2.0	<2.0
Trichloroethene	ug/L	<2.0	<2.0	<2.0
Trichlorofluoromethane (Freon 11)	ug/L	<2.0	<2.0	<2.0
1,2,3-Trichloropropane	ug/L	<2.0	<2.0	<2.0
1,2,4-Trimethylbenzene	ug/L	<2.0	<2.0	<2.0
1,3,5-Trimethylbenzene	ug/L	<2.0	<2.0	<2.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0
o-Xylene	ug/L	<2.0	<2.0	<2.0
m- & p-Xylenes	ug/L	<2.0	<2.0	<2.0
1,2-Dichloroethane-d4	[surr]	105%	100%	104%

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Maryland spectral Services
Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: 05-056-RF96

Project Number: N/A
Project Manager: James Wolf
Report Issued: 03/05/15 09:26

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		RW-6	RW-11	RW-2
LAB SAMPLE ID:		5022412-07	5022412-08	5022412-09
SAMPLE DATE:		02/24/15	02/24/15	02/24/15
RECEIVED DATE:		02/24/15	02/24/15	02/24/15
MATRIX	Units	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)				
Toluene-d8	[surr]	98.0%	96.7%	98.9%
4-Bromofluorobenzene	[surr]	125% [4]	93.2%	89.5%
GASOLINE RANGE ORGANICS BY EPA 8015B (Water)				
Gasoline-Range Organics	ug/L	<100	<100	<100
a,a,a-Trifluorotoluene	[surr]	101%	100%	100%
DIESEL RANGE ORGANICS BY EPA 3510/8015B (Water)				
Diesel-Range Organics	mg/L	**6.01 [1]**	**0.48**	<0.20
o-Terphenyl	[surr]	91.5%	104%	98.4%

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CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410–247–7600 • Fax 410–247–7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water)
PW (potable water)

Company Name: AEC
Project Manager: J. Wolf
Project Name: 05-056-RF96
Project ID: 05-056-RF96
Sampler(s): R. Swinger
P.O. Number:

Analysis Requested: VOC, 8260 (PRI 2456); TPH GRO

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	VOC, 8260 (PRI 2456)	TPH GRO	Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
RW-10	2/24/15	9:50	X			3	X	X	1:1 HCL		5022412-01
MW-7		9:57									-02
RW-12		10:03									-03
RW-8		10:07									-04
RW-3		10:15									-05
RW-4		10:20									-06
RW-6		10:25									-07
RW-11		10:32									-08
RW-2		10:40									-09

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
(Printed) Robert Swinger	16:00 2/24/15	(Printed) Joseph Eff	(Printed)		(Printed)
Relinquished by: (Signature) (Printed)	Date/Time 17:00 2/24/15	Received by Lab: (Signature) (Printed) Adrian Mobelka			

Turn Around Time:
- [x] Normal (7 day)
- [ ] 5 day
- [ ] 4 day
- [ ] 3 day
- [ ] Rush (2 day)
- [ ] Next Day
- [ ] Other: ____
- [ ] Specific Due Date: ____

Lab Use:
Temp: 8.0 °C
- [ ] Received on Ice
- [ ] Received same day
- [ ] Preservation Appropriate

Delivery Method:
- [ ] Courier
- [x] Client
- [ ] UPS
- [ ] FedEx
- [ ] USPS
- [ ] Other: ____

Special Instructions/QC Requirements & Comments:
Email Results: J Wolf
R Swinger
S Dessel
J Stein

Sample Disposal:
- [ ] Return to Client
- [x] Disposal by lab
- [ ] Archive for ____ days

MSS-F001-03/13

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: RF-096

Project Number: 05-056-RF96

Project Manager: James Wolf

Report Issued: 03/09/15 13:09

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		MW-16	MW-15	MW-6	MW-5	MW-4	MW-1
LAB SAMPLE ID:		5022601-01	5022601-02	5022601-03	5022601-04	5022601-05	5022601-06
SAMPLE DATE:		02/25/15	02/25/15	02/25/15	02/25/15	02/25/15	02/25/15
RECEIVED DATE:		02/26/15	02/26/15	02/26/15	02/26/15	02/26/15	02/26/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
GASOLINE RANGE ORGANICS BY EPA 8015B (Water)							
Gasoline-Range Organics	ug/L	<100	<100	<100	<100	<100	<100
a,a,a-Trifluorotoluene	[surr]	101%	100%	100%	101%	100%	101%
DIESEL RANGE ORGANICS BY EPA 3510/8015B (Water)							
Diesel-Range Organics	mg/L	**0.55**	<0.19	**0.24**	**0.21**	<0.19	<0.19
o-Terphenyl	[surr]	105%	107%	102%	107%	111%	99.9%
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (Water)							
Acetone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
tert-Amyl alcohol (TAA)	ug/L	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
tert-Amyl methyl ether (TAME)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Benzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromochloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromodichloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromomethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butanol (TBA)	ug/L	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0
2-Butanone (MEK)	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
n-Butylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
sec-Butylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
tert-Butylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Chlorotoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Chlorotoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromochloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dibromo-3-chloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dibromoethane (EDB)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromomethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,4-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dichlorodifluoromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

1 = Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: RF-096

Project Number: 05-056-RF96

Project Manager: James Wolf

Report Issued: 03/09/15 13:09

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		MW-16	MW-15	MW-6	MW-5	MW-4	MW-1
LAB SAMPLE ID:		5022601-01	5022601-02	5022601-03	5022601-04	5022601-05	5022601-06
SAMPLE DATE:		02/25/15	02/25/15	02/25/15	02/25/15	02/25/15	02/25/15
RECEIVED DATE:		02/26/15	02/26/15	02/26/15	02/26/15	02/26/15	02/26/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)							
1,1-Dichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
cis-1,2-Dichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
trans-1,2-Dichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dichlorofluoromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3-Dichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2,2-Dichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
cis-1,3-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
trans-1,3-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Diisopropyl ether (DIPE)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethyl tert-butyl ether (ETBE)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hexachlorobutadiene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-Hexanone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene (Cumene)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Isopropyltoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methyl tert-butyl ether (MTBE)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Methyl-2-pentanone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Methylene chloride	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Naphthalene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
n-Propylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,1,2-Tetrachloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,2,2-Tetrachloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Tetrachloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,3-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,4-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,1-Trichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,2-Trichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichlorofluoromethane (Freon 11)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,3-Trichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

1 = Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
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www.mdspectral.com
VELAP ID 460040

Project: RF-096

Project Number: 05-056-RF96
Project Manager: James Wolf
Report Issued: 03/09/15 13:09

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		MW-16	MW-15	MW-6	MW-5	MW-4	MW-1
LAB SAMPLE ID:		5022601-01	5022601-02	5022601-03	5022601-04	5022601-05	5022601-06
SAMPLE DATE:		02/25/15	02/25/15	02/25/15	02/25/15	02/25/15	02/25/15
RECEIVED DATE:		02/26/15	02/26/15	02/26/15	02/26/15	02/26/15	02/26/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)							
1,2,4-Trimethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3,5-Trimethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
m- & p-Xylenes	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane-d4	[surr]	106%	105%	107%	105%	105%	106%
Toluene-d8	[surr]	100%	99.7%	98.5%	99.1%	99.2%	98.6%
4-Bromofluorobenzene	[surr]	95.7%	95.0%	94.4%	94.5%	94.7%	94.8%

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Maryland spectral Services
Analytical Chemistry Services

Analytical Results

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VELAP ID 460040

Project: RF-096

Project Number: 05-056-RF96
Project Manager: James Wolf
Report Issued: 03/09/15 13:09

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		MW-14	MW-13	MW-10	MW-2	MW-11	MW-8
LAB SAMPLE ID:		5022601-07	5022601-08	5022601-09	5022601-10	5022601-11	5022601-12
SAMPLE DATE:		02/25/15	02/25/15	02/25/15	02/25/15	02/25/15	02/25/15
RECEIVED DATE:		02/26/15	02/26/15	02/26/15	02/26/15	02/26/15	02/26/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
GASOLINE RANGE ORGANICS BY EPA 8015B (Water)							
Gasoline-Range Organics	ug/L	<100	<100	<100	<100	<100	<100
a,a,a-Trifluorotoluene	[surr]	101%	101%	101%	101%	101%	101%
DIESEL RANGE ORGANICS BY EPA 3510/8015B (Water)							
Diesel-Range Organics	mg/L	**0.53**	<0.19	**0.34**	**0.30**	<0.19	**0.21**
o-Terphenyl	[surr]	104%	110%	99.1%	110%	105%	93.3%
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (Water)							
Acetone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
tert-Amyl alcohol (TAA)	ug/L	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
tert-Amyl methyl ether (TAME)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Benzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromochloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromodichloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromomethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butanol (TBA)	ug/L	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0
2-Butanone (MEK)	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
n-Butylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
sec-Butylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
tert-Butylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Chlorotoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Chlorotoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromochloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dibromo-3-chloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dibromoethane (EDB)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromomethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,4-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dichlorodifluoromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

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Analytical Results

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Project: RF-096

Project Number: 05-056-RF96
Project Manager: James Wolf
Report Issued: 03/09/15 13:09

Advantage Environmental Consultants, LLC
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CLIENT SAMPLE ID:		MW-14	MW-13	MW-10	MW-2	MW-11	MW-8
LAB SAMPLE ID:		5022601-07	5022601-08	5022601-09	5022601-10	5022601-11	5022601-12
SAMPLE DATE:		02/25/15	02/25/15	02/25/15	02/25/15	02/25/15	02/25/15
RECEIVED DATE:		02/26/15	02/26/15	02/26/15	02/26/15	02/26/15	02/26/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)							
1,1-Dichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
cis-1,2-Dichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
trans-1,2-Dichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dichlorofluoromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3-Dichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2,2-Dichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
cis-1,3-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
trans-1,3-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Diisopropyl ether (DIPE)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethyl tert-butyl ether (ETBE)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hexachlorobutadiene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-Hexanone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene (Cumene)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Isopropyltoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methyl tert-butyl ether (MTBE)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Methyl-2-pentanone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Methylene chloride	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Naphthalene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
n-Propylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,1,2-Tetrachloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,2,2-Tetrachloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Tetrachloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,3-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,4-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,1-Trichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,2-Trichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichlorofluoromethane (Freon 11)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,3-Trichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

1 = Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).

Maryland spectral Services
Analytical Chemistry Services

Analytical Results

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VELAP ID 460040

Project: RF-096

Project Number: 05-056-RF96
Project Manager: James Wolf
Report Issued: 03/09/15 13:09

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		MW-14	MW-13	MW-10	MW-2	MW-11	MW-8
LAB SAMPLE ID:		5022601-07	5022601-08	5022601-09	5022601-10	5022601-11	5022601-12
SAMPLE DATE:		02/25/15	02/25/15	02/25/15	02/25/15	02/25/15	02/25/15
RECEIVED DATE:		02/26/15	02/26/15	02/26/15	02/26/15	02/26/15	02/26/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)							
1,2,4-Trimethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3,5-Trimethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
m- & p-Xylenes	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane-d4	[surr]	105%	106%	106%	105%	106%	106%
Toluene-d8	[surr]	99.4%	98.8%	98.9%	99.1%	99.3%	99.1%
4-Bromofluorobenzene	[surr]	94.1%	94.5%	94.4%	95.6%	93.9%	94.8%

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CLIENT SAMPLE ID:		MW-9	TP-1	TP-2	TP-3	TP-4	RW-5
LAB SAMPLE ID:		5022601-13	5022601-14	5022601-15	5022601-16	5022601-17	5022601-18
SAMPLE DATE:		02/25/15	02/25/15	02/25/15	02/25/15	02/25/15	02/25/15
RECEIVED DATE:		02/26/15	02/26/15	02/26/15	02/26/15	02/26/15	02/26/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
GASOLINE RANGE ORGANICS BY EPA 8015B (Water)							
Gasoline-Range Organics	ug/L	<100	<100	<100	<100	<100	<100
a,a,a-Trifluorotoluene	[surr]	101%	100%	101%	101%	101%	101%
DIESEL RANGE ORGANICS BY EPA 3510/8015B (Water)							
Diesel-Range Organics	mg/L	**1.71**	**0.34**	**0.27**	**0.31**	**0.30**	<0.19
o-Terphenyl	[surr]	115%	103%	101%	106%	99.4%	96.7%
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (Water)							
Acetone	ug/L	**10.3**	<10.0	<10.0	<10.0	<10.0	<10.0
tert-Amyl alcohol (TAA)	ug/L	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
tert-Amyl methyl ether (TAME)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Benzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromochloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromodichloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromomethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butanol (TBA)	ug/L	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0
2-Butanone (MEK)	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
n-Butylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
sec-Butylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
tert-Butylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Chlorotoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Chlorotoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromochloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dibromo-3-chloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dibromoethane (EDB)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromomethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,4-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dichlorodifluoromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

1 = Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).

Maryland spectral Services
Analytical Chemistry Services

Analytical Results

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Project: RF-096

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Project Manager: James Wolf
Report Issued: 03/09/15 13:09

Advantage Environmental Consultants, LLC
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CLIENT SAMPLE ID:		MW-9	TP-1	TP-2	TP-3	TP-4	RW-5
LAB SAMPLE ID:		5022601-13	5022601-14	5022601-15	5022601-16	5022601-17	5022601-18
SAMPLE DATE:		02/25/15	02/25/15	02/25/15	02/25/15	02/25/15	02/25/15
RECEIVED DATE:		02/26/15	02/26/15	02/26/15	02/26/15	02/26/15	02/26/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)							
1,1-Dichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
cis-1,2-Dichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
trans-1,2-Dichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dichlorofluoromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3-Dichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2,2-Dichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
cis-1,3-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
trans-1,3-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Diisopropyl ether (DIPE)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethyl tert-butyl ether (ETBE)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hexachlorobutadiene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-Hexanone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene (Cumene)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Isopropyltoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methyl tert-butyl ether (MTBE)	ug/L	**3.4 [1]**	<2.0	<2.0	<2.0	<2.0	<2.0
4-Methyl-2-pentanone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Methylene chloride	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Naphthalene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
n-Propylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,1,2-Tetrachloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,2,2-Tetrachloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Tetrachloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,3-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,4-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,1-Trichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,2-Trichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichlorofluoromethane (Freon 11)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,3-Trichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

1 = Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
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www.mdspectral.com
VELAP ID 460040

Project: RF-096

Project Number: 05-056-RF96
Project Manager: James Wolf
Report Issued: 03/09/15 13:09

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		MW-9	TP-1	TP-2	TP-3	TP-4	RW-5
LAB SAMPLE ID:		5022601-13	5022601-14	5022601-15	5022601-16	5022601-17	5022601-18
SAMPLE DATE:		02/25/15	02/25/15	02/25/15	02/25/15	02/25/15	02/25/15
RECEIVED DATE:		02/26/15	02/26/15	02/26/15	02/26/15	02/26/15	02/26/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)							
1,2,4-Trimethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3,5-Trimethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
m- & p-Xylenes	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane-d4	[surr]	108%	106%	107%	106%	104%	104%
Toluene-d8	[surr]	98.8%	98.7%	99.6%	99.0%	99.5%	99.9%
4-Bromofluorobenzene	[surr]	95.1%	95.5%	94.9%	95.2%	94.7%	95.4%

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CLIENT SAMPLE ID:		RW-7	RW-13	FD-1	MW13D-SHALLOW	MW13D-DEEP	MW10D-SHALLOW
LAB SAMPLE ID:		5022601-19	5022601-20	5022601-21	5022601-22	5022601-23	5022601-24
SAMPLE DATE:		02/25/15	02/25/15	02/25/15	02/25/15	02/25/15	02/25/15
RECEIVED DATE:		02/26/15	02/26/15	02/26/15	02/26/15	02/26/15	02/26/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
GASOLINE RANGE ORGANICS BY EPA 8015B (Water)							
Gasoline-Range Organics	ug/L	<100	<100	<100	<100	<100	<100
a,a,a-Trifluorotoluene	[surr]	100%	101%	101%	101%	101%	101%
DIESEL RANGE ORGANICS BY EPA 3510/8015B (Water)							
Diesel-Range Organics	mg/L	<0.19	<0.20	<0.19	<0.21	<0.22	<0.20
o-Terphenyl	[surr]	99.4%	106%	106%	100%	95.6%	98.3%
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (Water)							
Acetone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
tert-Amyl alcohol (TAA)	ug/L	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
tert-Amyl methyl ether (TAME)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Benzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromochloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromodichloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromomethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butanol (TBA)	ug/L	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0
2-Butanone (MEK)	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
n-Butylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
sec-Butylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
tert-Butylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Chlorotoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Chlorotoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromochloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dibromo-3-chloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dibromoethane (EDB)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromomethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,4-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dichlorodifluoromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

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Analytical Results

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VELAP ID 460040

Project: RF-096

Project Number: 05-056-RF96
Project Manager: James Wolf
Report Issued: 03/09/15 13:09

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		RW-7	RW-13	FD-1	MW13D-SHALLOW	MW13D-DEEP	MW10D-SHALLOW
LAB SAMPLE ID:		5022601-19	5022601-20	5022601-21	5022601-22	5022601-23	5022601-24
SAMPLE DATE:		02/25/15	02/25/15	02/25/15	02/25/15	02/25/15	02/25/15
RECEIVED DATE:		02/26/15	02/26/15	02/26/15	02/26/15	02/26/15	02/26/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)							
1,1-Dichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
cis-1,2-Dichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
trans-1,2-Dichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dichlorofluoromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3-Dichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2,2-Dichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
cis-1,3-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
trans-1,3-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Diisopropyl ether (DIPE)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethyl tert-butyl ether (ETBE)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hexachlorobutadiene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-Hexanone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene (Cumene)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Isopropyltoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methyl tert-butyl ether (MTBE)	ug/L	<2.0	<2.0	<2.0	<2.0	**4.5 [1]**	**2.4 [1]**
4-Methyl-2-pentanone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Methylene chloride	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Naphthalene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
n-Propylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,1,2-Tetrachloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,2,2-Tetrachloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Tetrachloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	**9.0**
Toluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,3-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,4-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,1-Trichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,2-Trichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichlorofluoromethane (Freon 11)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,3-Trichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

1 = Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).

Maryland spectral Services
Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: RF-096

Project Number: 05-056-RF96
Project Manager: James Wolf
Report Issued: 03/09/15 13:09

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		RW-7	RW-13	FD-1	MW13D-SHALLOW	MW13D-DEEP	MW10D-SHALLOW
LAB SAMPLE ID:		5022601-19	5022601-20	5022601-21	5022601-22	5022601-23	5022601-24
SAMPLE DATE:		02/25/15	02/25/15	02/25/15	02/25/15	02/25/15	02/25/15
RECEIVED DATE:		02/26/15	02/26/15	02/26/15	02/26/15	02/26/15	02/26/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)							
1,2,4-Trimethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3,5-Trimethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
m- & p-Xylenes	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane-d4	[surr]	105%	106%	105%	105%	104%	105%
Toluene-d8	[surr]	99.6%	101%	99.2%	100%	101%	100%
4-Bromofluorobenzene	[surr]	94.3%	96.1%	94.2%	95.9%	96.5%	94.7%

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CLIENT SAMPLE ID:		MW10D-MID	MW10D-DEEP	MW12D-SHALLOW	MW12D-MID1	MW12D-MID2	MW12D-DEEP
LAB SAMPLE ID:		5022601-25	5022601-26	5022601-27	5022601-28	5022601-29	5022601-30
SAMPLE DATE:		02/25/15	02/25/15	02/25/15	02/25/15	02/25/15	02/25/15
RECEIVED DATE:		02/26/15	02/26/15	02/26/15	02/26/15	02/26/15	02/26/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
GASOLINE RANGE ORGANICS BY EPA 8015B (Water)							
Gasoline-Range Organics	ug/L	<100	<100	<100	<100	<100	<100
a,a,a-Trifluorotoluene	[surr]	101%	102%	101%	101%	101%	101%
DIESEL RANGE ORGANICS BY EPA 3510/8015B (Water)							
Diesel-Range Organics	mg/L	<0.19	<0.20	<0.21	<0.22	<0.20	<0.23
o-Terphenyl	[surr]	97.0%	106%	101%	110%	106%	104%
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (Water)							
Acetone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
tert-Amyl alcohol (TAA)	ug/L	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
tert-Amyl methyl ether (TAME)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Benzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromochloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromodichloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromomethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butanol (TBA)	ug/L	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0
2-Butanone (MEK)	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
n-Butylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
sec-Butylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
tert-Butylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Chlorotoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Chlorotoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromochloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dibromo-3-chloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dibromoethane (EDB)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromomethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,4-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dichlorodifluoromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

1 = Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).

Maryland spectral Services
Analytical Chemistry Services

Analytical Results

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VELAP ID 460040

Project: RF-096

Project Number: 05-056-RF96
Project Manager: James Wolf
Report Issued: 03/09/15 13:09

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		MW10D-MID	MW10D-DEEP	MW12D-SHALLOW	MW12D-MID1	MW12D-MID2	MW12D-DEEP
LAB SAMPLE ID:		5022601-25	5022601-26	5022601-27	5022601-28	5022601-29	5022601-30
SAMPLE DATE:		02/25/15	02/25/15	02/25/15	02/25/15	02/25/15	02/25/15
RECEIVED DATE:		02/26/15	02/26/15	02/26/15	02/26/15	02/26/15	02/26/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)							
1,1-Dichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
cis-1,2-Dichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
trans-1,2-Dichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dichlorofluoromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3-Dichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2,2-Dichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
cis-1,3-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
trans-1,3-Dichloropropene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Diisopropyl ether (DIPE)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethyl tert-butyl ether (ETBE)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hexachlorobutadiene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-Hexanone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene (Cumene)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Isopropyltoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methyl tert-butyl ether (MTBE)	ug/L	**2.7 [1]**	**2.8 [1]**	<2.0	<2.0	**3.6 [1]**	**10.6**
4-Methyl-2-pentanone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Methylene chloride	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Naphthalene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
n-Propylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,1,2-Tetrachloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,2,2-Tetrachloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Tetrachloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,3-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,4-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,1-Trichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,2-Trichloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichloroethene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichlorofluoromethane (Freon 11)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2,3-Trichloropropane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

1 = Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: RF-096

Project Number: 05-056-RF96

Project Manager: James Wolf

Report Issued: 03/09/15 13:09

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		MW10D-MID	MW10D-DEEP	MW12D-SHALLOW	MW12D-MID1	MW12D-MID2	MW12D-DEEP
LAB SAMPLE ID:		5022601-25	5022601-26	5022601-27	5022601-28	5022601-29	5022601-30
SAMPLE DATE:		02/25/15	02/25/15	02/25/15	02/25/15	02/25/15	02/25/15
RECEIVED DATE:		02/26/15	02/26/15	02/26/15	02/26/15	02/26/15	02/26/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)							
1,2,4-Trimethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,3,5-Trimethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
m- & p-Xylenes	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane-d4	[surr]	105%	106%	106%	105%	106%	106%
Toluene-d8	[surr]	101%	100%	99.4%	100%	99.3%	101%
4-Bromofluorobenzene	[surr]	95.4%	93.7%	95.0%	94.3%	95.1%	96.0%

1 = Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).

As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 • Fax 410-247-7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water) PW (potable water)

Company Name: AEC
Project Manager: Wolf
Project Name: RF-96
Project ID: 05-056 RF096
Sampler(s): Wolf / Bessel
P.O. Number: RF-96

Analysis Requested: VOCs + Oxy 8260; TPH GRO/DRO 8015

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	VOCs + Oxy 8260	TPH GRO/DRO 8015	Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
MW-16	2/25/15	15:22	N			5	X	X	1+1 HCL		5022601-01
MW-15		15:32									-02
MW-6		15:40									-03
MW-5		15:50									-04
MW-4		16:06									-05
MW-1		16:14									-06
MW-14		16:25									-07
MW-13		16:38									-08
MW-10		16:51									-09
MW-7		17:01									-10

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
(Printed)	2/26/15 08:20	(Printed)	(Printed)		(Printed)
Relinquished by: (Signature)	Date/Time	Received by Lab: (Signature)	Turn Around Time:		
(Printed)		(Printed)	☒ Normal (7 day) ☐ 5 day ☐ 4 day ☐ 3 day ☐ Rush (2 day) ☐ Next Day ☐ Other: ☐ Specific Due Date:		

Lab Use:
Temp: 2.1 °C
☒ Received on Ice
☐ Received same day
☒ Preservation Appropriate
Sample Disposal:
☐ Return to Client
☐ Disposal by lab
☒ Archive for ____ days

Delivery Method: ☐ Courier ☐ Client ☒ UPS ☐ FedEx ☐ USPS ☐ Other:

Special Instructions/QC Requirements & Comments:
Samples 5022601-14 - 20 VOA filled from liter bottle

MSS-F001-03/13

Company Name: AEC	Project Manager: Wolf
Project Name: RF-96	Project ID: OS 056RF096
Sampler(s): Wolf / Dessel	P.O. Number: RF-96

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410–247–7600 • Fax 410–247–7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water)
PW (potable water)

Analysis Requested: VOCs 10xy 8260; TPH GRO/DRO 8015

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	VOCs 10xy 8260	TPH GRO/DRO 8015	Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
~~MW-12~~	2/25/15	—	NW			3	X	X	1:1 HCl		5022601-
MW-11		17:18									5022601-11
MW-8		17:27									-12
MW-9		17:42									-13
TP-1		18:15				2					-14
TP-2		18:27				2					-15
TP-3		18:36				2					-16
TP-4		18:47				2					-17
RW-5		17:50				2					-18
RW-7		17:58				2					-19

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
(Printed) James Wolf	2/26/15 08:20	(Printed) Andrew Boecker	(Printed)		(Printed)
Relinquished by: (Signature)	Date/Time	Received by Lab: (Signature)			
(Printed)		(Printed)			

Turn Around Time:
- ☒ Normal (7 day)
- ☐ 5 day
- ☐ 4 day
- ☐ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: ____
- ☐ Specific Due Date: ____

Lab Use:
Temp: 2.1 °C
- ☒ Received on Ice
- ☐ Received same day
- ☒ Preservation Appropriate

Delivery Method:
- ☒ Courier
- ☐ Client
- ☐ UPS
- ☐ FedEx
- ☐ USPS
- ☐ Other: ____

Special Instructions/QC Requirements & Comments:

Sample Disposal:
- ☐ Return to Client
- ☒ Disposal by lab
- ☐ Archive for ____ days

MSS-F001-03/13

Company Name: AEC	Project Manager: Wolf
Project Name: RF-96	Project ID: OS-056RF096
Sampler(s): Wolf / Dessel	P.O. Number: RF-96

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410–247–7600 • Fax 410–247–7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water)
PW (potable water)

Analysis Requested: VOCs 10xy 8210; TPH GRO/DRO 8015

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	VOCs 10xy 8210	TPH GRO/DRO 8015	Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
RW-13	2/25/15	18:06	NW			2	X	X	1:1 HCl		5022601-20
FD-1	2/25/15	—	NW			3	X	X	1:1 HCl		-21
MW13D-Shallow		17:25				3					-22
MW13D Deep		17:30									-23
MW10D Shallow		17:35									-24
MW10D-Mid		17:40									-25
MW10D-Deep		17:45									-26
MW12D-Shallow		17:48									-27
MW12D-Mid		17:50									-28
Samples MW12D-Mid2 / MW12D-Deep		1754 / 1756									-29 / -30

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
(Printed) James Wolf	2/26/15 08:20	(Printed) Andrew Boecker	(Printed)		(Printed)
Relinquished by: (Signature)	Date/Time	Received by Lab: (Signature)			
(Printed)		(Printed)			

Turn Around Time:
- ☒ Normal (7 day)
- ☐ 5 day
- ☐ 4 day
- ☐ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: ____
- ☐ Specific Due Date: ____

Lab Use:
Temp: 2.1 °C
- ☒ Received on Ice
- ☐ Received same day
- ☒ Preservation Appropriate

Delivery Method:
- ☐ Courier
- ☒ Client
- ☐ UPS
- ☐ FedEx
- ☐ USPS
- ☐ Other: ____

Special Instructions/QC Requirements & Comments:

Sample Disposal:
- ☐ Return to Client
- ☒ Disposal by lab
- ☐ Archive for ____ days

MSS-F001-03/13

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: RF-096

Project Number: 05-056-RF96

Project Manager: James Wolf

Report Issued: 03/16/15 13:11

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		RW-1	RW-9
LAB SAMPLE ID:		5030410-01	5030410-02
SAMPLE DATE:		03/04/15	03/04/15
RECEIVED DATE:		03/04/15	03/04/15
MATRIX	Units	Water	Water

VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (Water)

Acetone	ug/L	<10.0	<10.0
tert-Amyl alcohol (TAA)	ug/L	<20.0	<20.0
tert-Amyl methyl ether (TAME)	ug/L	<2.0	<2.0
Benzene	ug/L	**2.7 [1]**	**2.4 [1]**
Bromobenzene	ug/L	<2.0	<2.0
Bromochloromethane	ug/L	<2.0	<2.0
Bromodichloromethane	ug/L	<2.0	<2.0
Bromoform	ug/L	<2.0	<2.0
Bromomethane	ug/L	<5.0	<5.0
tert-Butanol (TBA)	ug/L	<15.0	<15.0
2-Butanone (MEK)	ug/L	<10.0	<10.0
n-Butylbenzene	ug/L	<2.0	<2.0
sec-Butylbenzene	ug/L	<2.0	<2.0
tert-Butylbenzene	ug/L	<2.0	<2.0
Carbon disulfide	ug/L	<2.0	<2.0
Carbon tetrachloride	ug/L	<2.0	<2.0
Chlorobenzene	ug/L	<2.0	<2.0
Chloroethane	ug/L	<5.0	<5.0
Chloroform	ug/L	<2.0	<2.0
Chloromethane	ug/L	<5.0	<5.0
2-Chlorotoluene	ug/L	<2.0	<2.0
4-Chlorotoluene	ug/L	<2.0	<2.0
Dibromochloromethane	ug/L	<2.0	<2.0
1,2-Dibromo-3-chloropropane	ug/L	<2.0	<2.0
1,2-Dibromoethane (EDB)	ug/L	<2.0	<2.0
Dibromomethane	ug/L	<2.0	<2.0
1,2-Dichlorobenzene	ug/L	<2.0	<2.0
1,3-Dichlorobenzene	ug/L	<2.0	<2.0
1,4-Dichlorobenzene	ug/L	<2.0	<2.0
Dichlorodifluoromethane	ug/L	<2.0	<2.0
1,1-Dichloroethane	ug/L	<2.0	<2.0
1,2-Dichloroethane	ug/L	<2.0	<2.0
1,1-Dichloroethene	ug/L	<2.0	<2.0
cis-1,2-Dichloroethene	ug/L	<2.0	<2.0
trans-1,2-Dichloroethene	ug/L	<2.0	<2.0
Dichlorofluoromethane	ug/L	<2.0	<2.0

1 = Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).

As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: RF-096

Project Number: 05-056-RF96

Project Manager: James Wolf

Report Issued: 03/16/15 13:11

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		RW-1	RW-9
LAB SAMPLE ID:		5030410-01	5030410-02
SAMPLE DATE:		03/04/15	03/04/15
RECEIVED DATE:		03/04/15	03/04/15
MATRIX	Units	Water	Water

VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)

1,2-Dichloropropane	ug/L	<2.0	<2.0
1,3-Dichloropropane	ug/L	<2.0	<2.0
2,2-Dichloropropane	ug/L	<2.0	<2.0
1,1-Dichloropropene	ug/L	<2.0	<2.0
cis-1,3-Dichloropropene	ug/L	<2.0	<2.0
trans-1,3-Dichloropropene	ug/L	<2.0	<2.0
Diisopropyl ether (DIPE)	ug/L	<2.0	<2.0
Ethyl tert-butyl ether (ETBE)	ug/L	<2.0	<2.0
Ethylbenzene	ug/L	**4.0 [1]**	<2.0
Hexachlorobutadiene	ug/L	<2.0	<2.0
2-Hexanone	ug/L	<10.0	<10.0
Isopropylbenzene (Cumene)	ug/L	<2.0	<2.0
4-Isopropyltoluene	ug/L	<2.0	<2.0
Methyl tert-butyl ether (MTBE)	ug/L	<2.0	<2.0
4-Methyl-2-pentanone	ug/L	<10.0	<10.0
Methylene chloride	ug/L	<10.0	<10.0
Naphthalene	ug/L	<2.0	<2.0
n-Propylbenzene	ug/L	<2.0	<2.0
Styrene	ug/L	<2.0	<2.0
1,1,1,2-Tetrachloroethane	ug/L	<2.0	<2.0
1,1,2,2-Tetrachloroethane	ug/L	<2.0	<2.0
Tetrachloroethene	ug/L	<2.0	<2.0
Toluene	ug/L	**11.3**	<2.0
1,2,3-Trichlorobenzene	ug/L	<2.0	<2.0
1,2,4-Trichlorobenzene	ug/L	<2.0	<2.0
1,1,1-Trichloroethane	ug/L	<2.0	<2.0
1,1,2-Trichloroethane	ug/L	<2.0	<2.0
Trichloroethene	ug/L	<2.0	<2.0
Trichlorofluoromethane (Freon 11)	ug/L	<2.0	<2.0
1,2,3-Trichloropropane	ug/L	<2.0	<2.0
1,2,4-Trimethylbenzene	ug/L	**24.0**	<2.0
1,3,5-Trimethylbenzene	ug/L	**14.4**	<2.0
Vinyl chloride	ug/L	<2.0	<2.0
o-Xylene	ug/L	**55.8**	<2.0
m- & p-Xylenes	ug/L	**68.6**	<2.0
1,2-Dichloroethane-d4	[surr]	92.2%	91.8%

1 = Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).

As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: RF-096

Project Number: 05-056-RF96
Project Manager: James Wolf
Report Issued: 03/16/15 13:11

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		RW-1	RW-9
LAB SAMPLE ID:		5030410-01	5030410-02
SAMPLE DATE:		03/04/15	03/04/15
RECEIVED DATE:		03/04/15	03/04/15
MATRIX	Units	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)			
Toluene-d8	[surr]	99.6%	99.4%
4-Bromofluorobenzene	[surr]	98.0%	96.9%
GASOLINE RANGE ORGANICS BY EPA 8015B (Water)			
Gasoline-Range Organics	ug/L	**215**	<100
a,a,a-Trifluorotoluene	[surr]	100%	99.5%
DIESEL RANGE ORGANICS BY EPA 3510/8015B (Water)			
Diesel-Range Organics	mg/L	**0.37**	<0.19
o-Terphenyl	[surr]	98.4%	95.7%

1 = Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).

As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 • Fax 410-247-7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water) PW (potable water)

Company Name: AEC
Project Manager: J Wolf
Project Name: 05-056-RF96
Project ID: 05-056-RF96
Sampler(s): R. Swanger
P.O. Number:

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	VOCs 8260	TPH GRO 8015	TPH DRO 8015	Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
RW-1	3/4/15	10:00	X			3	X	X	X	1+1 HCL		5030410-01
RW-9	3/4/15	10:10	X			3	X	X	X	↓		-02

Analysis Requested

Relinquished by: (Signature) R. Swanger (Printed) Robert Swanger Date/Time 17:29 3/4/15

Received by: (Signature) Cory Koons (Printed) Cory Koons Date/Time

Relinquished by: (Signature) (Printed) Date/Time

Received by: (Signature) (Printed) Date/Time

Relinquished by: (Signature) (Printed) Date/Time

Received by: (Signature) (Printed) Date/Time

Delivery Method:
- ☐ Courier
- ☒ Client
- ☐ UPS
- ☐ FedEx
- ☐ USPS
- ☐ Other:

Special Instructions/QC Requirements & Comments: Email Results: J Wolf, R Swanger, S Russel

Turn Around Time:
- ☒ Normal (7 day)
- ☐ 5 day
- ☐ 4 day
- ☐ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other:
- ☐ Specific Due Date:

Lab Use: Temp: 10.8 °C
- ☐ Received on Ice
- ☐ Received same day
- ☐ Preservation Appropriate

Sample Disposal:
- ☐ Return to Client
- ☐ Disposal by lab
- ☐ Archive for ____ days

MSS-F001-03/13

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: RF-096

Project Number: 05-056-RF96

Project Manager: James Wolf

Report Issued: 03/27/15 10:46

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		MW-12
LAB SAMPLE ID:		5031804-01
SAMPLE DATE:		03/18/15
RECEIVED DATE:		03/18/15
MATRIX	Units	Water

VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (Water)

Acetone	ug/L	<10.0
tert-Amyl alcohol (TAA)	ug/L	<20.0
tert-Amyl methyl ether (TAME)	ug/L	<2.0
Benzene	ug/L	<2.0
Bromobenzene	ug/L	<2.0
Bromochloromethane	ug/L	<2.0
Bromodichloromethane	ug/L	<2.0
Bromoform	ug/L	<2.0
Bromomethane	ug/L	<5.0
tert-Butanol (TBA)	ug/L	<15.0
2-Butanone (MEK)	ug/L	<10.0
n-Butylbenzene	ug/L	<2.0
sec-Butylbenzene	ug/L	<2.0
tert-Butylbenzene	ug/L	<2.0
Carbon disulfide	ug/L	<2.0
Carbon tetrachloride	ug/L	<2.0
Chlorobenzene	ug/L	<2.0
Chloroethane	ug/L	<5.0
Chloroform	ug/L	<2.0
Chloromethane	ug/L	<5.0
2-Chlorotoluene	ug/L	<2.0
4-Chlorotoluene	ug/L	<2.0
Dibromochloromethane	ug/L	<2.0
1,2-Dibromo-3-chloropropane	ug/L	<2.0
1,2-Dibromoethane (EDB)	ug/L	<2.0
Dibromomethane	ug/L	<2.0
1,2-Dichlorobenzene	ug/L	<2.0
1,3-Dichlorobenzene	ug/L	<2.0
1,4-Dichlorobenzene	ug/L	<2.0
Dichlorodifluoromethane	ug/L	<2.0
1,1-Dichloroethane	ug/L	<2.0
1,2-Dichloroethane	ug/L	<2.0
1,1-Dichloroethene	ug/L	<2.0
cis-1,2-Dichloroethene	ug/L	<2.0
trans-1,2-Dichloroethene	ug/L	<2.0
Dichlorofluoromethane	ug/L	<2.0

1 = Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).

As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

Maryland spectral Services

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Project: RF-096

Project Number: 05-056-RF96

Project Manager: James Wolf

Report Issued: 03/27/15 10:46

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		MW-12
LAB SAMPLE ID:		5031804-01
SAMPLE DATE:		03/18/15
RECEIVED DATE:		03/18/15
MATRIX	Units	Water

VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)

1,2-Dichloropropane	ug/L	<2.0
1,3-Dichloropropane	ug/L	<2.0
2,2-Dichloropropane	ug/L	<2.0
1,1-Dichloropropene	ug/L	<2.0
cis-1,3-Dichloropropene	ug/L	<2.0
trans-1,3-Dichloropropene	ug/L	<2.0
Diisopropyl ether (DIPE)	ug/L	<2.0
Ethyl tert-butyl ether (ETBE)	ug/L	<2.0
Ethylbenzene	ug/L	<2.0
Hexachlorobutadiene	ug/L	<2.0
2-Hexanone	ug/L	<10.0
Isopropylbenzene (Cumene)	ug/L	<2.0
4-Isopropyltoluene	ug/L	<2.0
Methyl tert-butyl ether (MTBE)	ug/L	<2.0
4-Methyl-2-pentanone	ug/L	<10.0
Methylene chloride	ug/L	<10.0
Naphthalene	ug/L	<2.0
n-Propylbenzene	ug/L	<2.0
Styrene	ug/L	<2.0
1,1,1,2-Tetrachloroethane	ug/L	<2.0
1,1,2,2-Tetrachloroethane	ug/L	<2.0
Tetrachloroethene	ug/L	<2.0
Toluene	ug/L	<2.0
1,2,3-Trichlorobenzene	ug/L	<2.0
1,2,4-Trichlorobenzene	ug/L	<2.0
1,1,1-Trichloroethane	ug/L	<2.0
1,1,2-Trichloroethane	ug/L	<2.0
Trichloroethene	ug/L	<2.0
Trichlorofluoromethane (Freon 11)	ug/L	<2.0
1,2,3-Trichloropropane	ug/L	<2.0
1,2,4-Trimethylbenzene	ug/L	<2.0
1,3,5-Trimethylbenzene	ug/L	<2.0
Vinyl chloride	ug/L	<2.0
o-Xylene	ug/L	<2.0
m- & p-Xylenes	ug/L	<2.0
1,2-Dichloroethane-d4	[surr]	104%

1 = Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).

As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: RF-096

Project Number: 05-056-RF96

Project Manager: James Wolf

Report Issued: 03/27/15 10:46

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		MW-12
LAB SAMPLE ID:		5031804-01
SAMPLE DATE:		03/18/15
RECEIVED DATE:		03/18/15
MATRIX	Units	Water

VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)

Toluene-d8	[surr]	97.5%
4-Bromofluorobenzene	[surr]	88.2%

GASOLINE RANGE ORGANICS BY EPA 8015B (Water)

Gasoline-Range Organics	ug/L	<100
a,a,a-Trifluorotoluene	[surr]	99.9%

DIESEL RANGE ORGANICS BY EPA 3510/8015B (Water)

Diesel-Range Organics	mg/L	<0.19
o-Terphenyl	[surr]	88.1%

1 = Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).

As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 • Fax 410-247-7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water) PW (potable water)

Company Name: AEC
Project Name: RF-96
Sampler(s): S. Dessel
Project Manager: J. Wolf
Project ID: 05-056-RF96
P.O. Number: 05-056-RF96

Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$
Analysis Requested: Field pH, Residual Chlorine, QC Request, Trip Blank, F -H Blank

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	VOCs 8260	TPH DRO 8015	TPH GRO 8015	MSS Lab ID
MW-12	3/18/15	10:05	X			3	X	X	X	5031804-01 A

1+1 HCL

Relinquished by: (Signature) Stephen Dessel — Date/Time 3/18/15 14:14 — Received by: (Signature) K. Mayfield — (Printed) Karla NcAdoo — Date/Time — Relinquished by: (Signature) — (Printed) — Received by: (Signature) — (Printed) — Date/Time

Relinquished by: (Signature) — (Printed) — Received by Lab: (Signature) — (Printed) — Date/Time

Delivery Method:
- ☐ Courier
- X Client
- ☐ UPS
- ☐ FedEx
- ☐ USPS
- ☐ Other: ____

Special Instructions/QC Requirements & Comments: Results to: jstein, jwolf, sdessel

Turn Around Time:
- X Normal (7 day)
- ☐ 5 day
- ☐ 4 day
- ☐ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: ____
- ☐ Specific Due Date: ____

Lab Use:
Temp: 0.2°C
X Received on Ice
X Received same day
☐ Preservation Appropriate

Sample Disposal:
- ☐ Return to Client
- ☐ Disposal by lab
- X Archive for ____ days

MSS-F001-03/13

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: **500 MECHANICS VALLEY RD**

Project Number: 05-056RF96

Project Manager: James Wolf

Report Issued: 03/24/15 14:31

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		PW500-EFF	PW500-MID2	PW500-MID1	PW500-IN
LAB SAMPLE ID:		5031809-01	5031809-02	5031809-03	5031809-04
SAMPLE DATE:		03/18/15	03/18/15	03/18/15	03/18/15
RECEIVED DATE:		03/18/15	03/18/15	03/18/15	03/18/15
MATRIX	Units	Potable Water	Potable Water	Potable Water	Potable Water

VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (Water)

tert-Amyl alcohol (TAA)	ug/L	<10.0	<10.0	<10.0	<10.0
tert-Amyl methyl ether (TAME)	ug/L	<0.50	<0.50	<0.50	<0.50
Benzene	ug/L	<0.50	<0.50	<0.50	<0.50
Bromobenzene	ug/L	<0.50	<0.50	<0.50	<0.50
Bromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50
Bromoform	ug/L	<0.50	<0.50	<0.50	<0.50
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50
tert-Butanol (TBA)	ug/L	<10.0	<10.0	<10.0	<10.0
n-Butylbenzene	ug/L	<0.50	<0.50	<0.50	<0.50
sec-Butylbenzene	ug/L	<0.50	<0.50	<0.50	<0.50
tert-Butylbenzene	ug/L	<0.50	<0.50	<0.50	<0.50
Carbon tetrachloride	ug/L	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50
Chloroethane	ug/L	<0.50	<0.50	<0.50	<0.50
Chloroform	ug/L	<0.50	<0.50	<0.50	<0.50
Chloromethane	ug/L	<0.50	<0.50	<0.50	<0.50
2-Chlorotoluene	ug/L	<0.50	<0.50	<0.50	<0.50
4-Chlorotoluene	ug/L	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50
1,2-Dibromo-3-chloropropane	ug/L	<0.50	<0.50	<0.50	<0.50
1,2-Dibromoethane (EDB)	ug/L	<0.50	<0.50	<0.50	<0.50
Dibromomethane	ug/L	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	ug/L	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	ug/L	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	ug/L	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethene	ug/L	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	ug/L	<0.50	<0.50	<0.50	<0.50
1,3-Dichloropropane	ug/L	<0.50	<0.50	<0.50	<0.50
2,2-Dichloropropane	ug/L	<0.50	<0.50	<0.50	<0.50
1,1-Dichloropropene	ug/L	<0.50	<0.50	<0.50	<0.50

As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: **500 MECHANICS VALLEY RD**

Project Number: 05-056RF96

Project Manager: James Wolf

Report Issued: 03/24/15 14:31

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		PW500-EFF	PW500-MID2	PW500-MID1	PW500-IN
LAB SAMPLE ID:		5031809-01	5031809-02	5031809-03	5031809-04
SAMPLE DATE:		03/18/15	03/18/15	03/18/15	03/18/15
RECEIVED DATE:		03/18/15	03/18/15	03/18/15	03/18/15
MATRIX	Units	Potable Water	Potable Water	Potable Water	Potable Water

VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (continued)

cis-1,3-Dichloropropene	ug/L	<0.50	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	ug/L	<0.50	<0.50	<0.50	<0.50
Diisopropyl ether (DIPE)	ug/L	<0.50	<0.50	<0.50	<0.50
Ethyl tert-butyl ether (ETBE)	ug/L	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	ug/L	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	ug/L	<0.50	<0.50	<0.50	<0.50
Isopropylbenzene (Cumene)	ug/L	<0.50	<0.50	<0.50	<0.50
4-Isopropyltoluene	ug/L	<0.50	<0.50	<0.50	<0.50
Methyl tert-butyl ether (MTBE)	ug/L	<0.50	<0.50	**1.54**	**3.03**
Methylene chloride	ug/L	<0.50	<0.50	<0.50	<0.50
Naphthalene	ug/L	<0.50	<0.50	<0.50	<0.50
n-Propylbenzene	ug/L	<0.50	<0.50	<0.50	<0.50
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	ug/L	<0.50	<0.50	<0.50	<0.50
Toluene	ug/L	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50
Trichloroethene	ug/L	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane (Freon 11)	ug/L	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichloropropane	ug/L	<0.50	<0.50	<0.50	<0.50
1,2,4-Trimethylbenzene	ug/L	<0.50	<0.50	<0.50	<0.50
1,3,5-Trimethylbenzene	ug/L	<0.50	<0.50	<0.50	<0.50
Vinyl chloride	ug/L	<0.50	<0.50	<0.50	<0.50
o-Xylene	ug/L	<0.50	<0.50	<0.50	<0.50
m- & p-Xylenes	ug/L	<0.50	<0.50	<0.50	<0.50
4-Bromofluorobenzene	[surr]	86.0%	85.0%	84.0%	84.0%
1,2-Dichlorobenzene-d4	[surr]	87.0%	87.0%	87.0%	84.0%

As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 • Fax 410-247-7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water)
PW (potable water)

Company Name: AEC

Project Manager: J. Wolf

Project Name: 500 Mechanics Valley Rd

Project ID: 05-056-RF96

Sampler(s): S. Dessel

P.O. Number: 05-056-RF96

Analysis Requested: VOCs 524.2

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	VOCs 524.2	Preservative: 1+ 1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
PW500-Eff	3/18/15	10:30	X			2	X	1+1 HCL		5031809-01 A
PW500-Mid2		10:35								5031809-02 A
PW500-Mid 1		10:40								5031809-03 A
PW500-In		10:45								5031809-04 A

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
(Printed) Stephen Dessel	3/18/15 14:14	K-McAdoo (Printed) Karla McAdoo	(Printed)		(Printed)

Relinquished by: (Signature)	Date/Time	Received by Lab: (Signature)
(Printed)		(Printed)

Turn Around Time:
- X Normal (7 day)
- ☐ 5 day
- ☐ 4 day
- ☐ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: ____
- ☐ Specific Due Date: ____

Lab Use:
Temp: 10.2C
- ✓ Received on Ice
- ✓ Received same day
- ☐ Preservation Appropriate

Delivery Method:
- ☐ Courier
- X Client
- ☐ UPS
- ☐ FedEx
- ☐ USPS
- ☐ Other: ____

Special Instructions/QC Requirements & Comments:
Results to: jwolf, jstein, sdessel

Sample Disposal:
- ☐ Return to Client
- X Disposal by lab
- ☐ Archive for ____ days

MSS-F001-03/13

Attachment E

April 15, 2015

Montgomery Brothers
P.O. Box 707
Rising Sun, MD 21911

Re: **Supply Well Sampling Analytical Results**
10 Montgomery Drive
North East, MD

To Whom It May Concern:

During routine testing of the groundwater monitoring well network associated with the underground storage tank system located at 500 Mechanics Valley Road (Royal Farms #96), petroleum hydrocarbons were detected in the groundwater. As a result of these findings the Maryland Department of the Environment (MDE) has required testing of select adjacent drinking water supply wells. According to MDE correspondences dated October 6, 2011, December 8, 2011, and May 2, 2012 your well has been selected for quarterly sampling.

Advantage Environmental Consultants (AEC) of Jessup, Maryland has been retained by Royal Farms to perform this testing. This sampling was completed on March18, 2015. The sample collected from your well was analyzed for volatile organic compounds (VOCs), including fuel oxygenates, via Environmental Protection Agency (EPA) Analytical Method 524.2. The attached laboratory analytical results indicate all analyzed compounds are below the laboratory detection limits.

If you have any questions regarding these results please contact the MDE (Susan Bull) who can be reached at 410.537.3499 or sbull@mde.state.md.us.

Sincerely,
Advantage Environmental Consultants, LLC

James Wolf
Project Manager

Attachment

8610 Washington Blvd Suite 217 Jessup, MD 20794 Phone: 301.776.0500 Fax: 301.776.1123

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: **10 Montgomery Dr.**
Project Number: 05-056RF96
Project Manager: James Wolf
Report Issued: 03/24/15 14:26

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		PW-10
LAB SAMPLE ID:		5031805-01
SAMPLE DATE:		03/18/15
RECEIVED DATE:		03/18/15
MATRIX	Units	Water

VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (Water)

tert-Amyl alcohol (TAA)	ug/L	<10.0
tert-Amyl methyl ether (TAME)	ug/L	<0.50
Benzene	ug/L	<0.50
Bromobenzene	ug/L	<0.50
Bromochloromethane	ug/L	<0.50
Bromodichloromethane	ug/L	<0.50
Bromoform	ug/L	<0.50
Bromomethane	ug/L	<0.50
tert-Butanol (TBA)	ug/L	<10.0
n-Butylbenzene	ug/L	<0.50
sec-Butylbenzene	ug/L	<0.50
tert-Butylbenzene	ug/L	<0.50
Carbon tetrachloride	ug/L	<0.50
Chlorobenzene	ug/L	<0.50
Chloroethane	ug/L	<0.50
Chloroform	ug/L	<0.50
Chloromethane	ug/L	<0.50
2-Chlorotoluene	ug/L	<0.50
4-Chlorotoluene	ug/L	<0.50
Dibromochloromethane	ug/L	<0.50
1,2-Dibromo-3-chloropropane	ug/L	<0.50
1,2-Dibromoethane (EDB)	ug/L	<0.50
Dibromomethane	ug/L	<0.50
1,2-Dichlorobenzene	ug/L	<0.50
1,3-Dichlorobenzene	ug/L	<0.50
1,4-Dichlorobenzene	ug/L	<0.50
Dichlorodifluoromethane	ug/L	<0.50
1,1-Dichloroethane	ug/L	<0.50
1,2-Dichloroethane	ug/L	<0.50
1,1-Dichloroethene	ug/L	<0.50
cis-1,2-Dichloroethene	ug/L	<0.50
trans-1,2-Dichloroethene	ug/L	<0.50
1,2-Dichloropropane	ug/L	<0.50
1,3-Dichloropropane	ug/L	<0.50
2,2-Dichloropropane	ug/L	<0.50
1,1-Dichloropropene	ug/L	<0.50

As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: **10 Montgomery Dr.**

Project Number: 05-056RF96

Project Manager: James Wolf

Report Issued: 03/24/15 14:26

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		PW-10
LAB SAMPLE ID:		5031805-01
SAMPLE DATE:		03/18/15
RECEIVED DATE:		03/18/15
MATRIX	Units	Water

VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (continued)

cis-1,3-Dichloropropene	ug/L	<0.50
trans-1,3-Dichloropropene	ug/L	<0.50
Diisopropyl ether (DIPE)	ug/L	<0.50
Ethyl tert-butyl ether (ETBE)	ug/L	<0.50
Ethylbenzene	ug/L	<0.50
Hexachlorobutadiene	ug/L	<0.50
Isopropylbenzene (Cumene)	ug/L	<0.50
4-Isopropyltoluene	ug/L	<0.50
Methyl tert-butyl ether (MTBE)	ug/L	<0.50
Methylene chloride	ug/L	<0.50
Naphthalene	ug/L	<0.50
n-Propylbenzene	ug/L	<0.50
Styrene	ug/L	<0.50
1,1,1,2-Tetrachloroethane	ug/L	<0.50
1,1,2,2-Tetrachloroethane	ug/L	<0.50
Tetrachloroethene	ug/L	<0.50
Toluene	ug/L	<0.50
1,2,3-Trichlorobenzene	ug/L	<0.50
1,2,4-Trichlorobenzene	ug/L	<0.50
1,1,1-Trichloroethane	ug/L	<0.50
1,1,2-Trichloroethane	ug/L	<0.50
Trichloroethene	ug/L	<0.50
Trichlorofluoromethane (Freon 11)	ug/L	<0.50
1,2,3-Trichloropropane	ug/L	<0.50
1,2,4-Trimethylbenzene	ug/L	<0.50
1,3,5-Trimethylbenzene	ug/L	<0.50
Vinyl chloride	ug/L	<0.50
o-Xylene	ug/L	<0.50
m- & p-Xylenes	ug/L	<0.50
4-Bromofluorobenzene	[surr]	84.0%
1,2-Dichlorobenzene-d4	[surr]	84.0%

As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 • Fax 410-247-7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water)
PW (potable water)

Company Name: AEC
Project Name: 10 Montgomery Dr.
Sampler(s): S. Dessel
Project Manager: J. Wolf
Project ID: 05-056-RF96
P.O. Number: 05-056-RF96

Analysis Requested: VOCs 524.2

Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$: 1+1 HCL

Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank

MSS Lab ID: 5031805-01 A

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	VOCs 524.2
PW-10	3/18/15	10:50	X			2	X

Relinquished by: (Signature) Stephen Dessel (Printed) Stephen Dessel — Date/Time 3/18/15 14:14

Received by: (Signature) K. McAdoo (Printed) Karla McAdoo — Date/Time

Relinquished by: (Signature) — Date/Time — (Printed)

Received by: (Signature) — Date/Time — (Printed)

Relinquished by: (Signature) — Date/Time — (Printed)

Received by Lab: (Signature) — Date/Time — (Printed)

Delivery Method:
- ☐ Courier
- X Client
- ☐ UPS
- ☐ FedEx
- ☐ USPS
- ☐ Other: ____

Special Instructions/QC Requirements & Comments: Results to: jwolf, jstein, sdessel

Turn Around Time:
- X Normal (7 day)
- ☐ 5 day
- ☐ 4 day
- ☐ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: ____
- ☐ Specific Due Date: ____

Lab Use:
Temp: 10.2°C
X Received on Ice
X Received same day
☐ Preservation Appropriate

Sample Disposal:
- ☐ Return to Client
- X Disposal by lab
- ☐ Archive for ____ days

MSS-F001-03/13

Advantage Environmental Consultants, LLC

April 15, 2015

Occupant
475 Mechanic Valley Road
North East, MD 21901

Re: **Supply Well Sampling Analytical Results**

To Whom It May Concern:

During routine testing of the groundwater monitoring well network associated with the underground storage tank system located at 500 Mechanics Valley Road (Royal Farms #96), petroleum hydrocarbons were detected in the groundwater. As a result of these findings the Maryland Department of the Environment (MDE) has required testing of select adjacent drinking water supply wells. According to MDE correspondences dated October 6, 2011, December 8, 2011, and May 2, 2012 your well has been selected for quarterly sampling.

Advantage Environmental Consultants (AEC) of Jessup, Maryland has been retained by Royal Farms to perform this testing. This sampling was completed on March 18, 2015. The sample collected from your well was analyzed for volatile organic compounds (VOCs), including fuel oxygenates, via Environmental Protection Agency (EPA) Analytical Method 524.2. The attached laboratory analytical results indicate all analyzed compounds are below the laboratory detection limits, with the exception of methyl tert-butyl ether (MTBE). The detected concentration of MTBE is below its MDE action level of 20 µg/L.

If you have any questions regarding these results please contact the MDE (Susan Bull) who can be reached at 410.537.3499 or sbull@mde.state.md.us.

Sincerely,
Advantage Environmental Consultants, LLC

James Wolf
Project Manager

Attachment

8610 Washington Blvd Suite 217 Jessup, MD 20794 Phone: 301.776.0500 Fax: 301.776.1123

Maryland spectral Services

Analytical Chemistry Services

nelac

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: **475 Mechanics Valley Rd**

Project Number: 05-056RF96
Project Manager: James Wolf
Report Issued: 03/24/15 14:29

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		PW-475
LAB SAMPLE ID:		5031808-01
SAMPLE DATE:		03/18/15
RECEIVED DATE:		03/18/15
MATRIX	Units	Water

VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (Water)

tert-Amyl alcohol (TAA)	ug/L	<10.0
tert-Amyl methyl ether (TAME)	ug/L	<0.50
Benzene	ug/L	<0.50
Bromobenzene	ug/L	<0.50
Bromochloromethane	ug/L	<0.50
Bromodichloromethane	ug/L	<0.50
Bromoform	ug/L	<0.50
Bromomethane	ug/L	<0.50
tert-Butanol (TBA)	ug/L	<10.0
n-Butylbenzene	ug/L	<0.50
sec-Butylbenzene	ug/L	<0.50
tert-Butylbenzene	ug/L	<0.50
Carbon tetrachloride	ug/L	<0.50
Chlorobenzene	ug/L	<0.50
Chloroethane	ug/L	<0.50
Chloroform	ug/L	<0.50
Chloromethane	ug/L	<0.50
2-Chlorotoluene	ug/L	<0.50
4-Chlorotoluene	ug/L	<0.50
Dibromochloromethane	ug/L	<0.50
1,2-Dibromo-3-chloropropane	ug/L	<0.50
1,2-Dibromoethane (EDB)	ug/L	<0.50
Dibromomethane	ug/L	<0.50
1,2-Dichlorobenzene	ug/L	<0.50
1,3-Dichlorobenzene	ug/L	<0.50
1,4-Dichlorobenzene	ug/L	<0.50
Dichlorodifluoromethane	ug/L	<0.50
1,1-Dichloroethane	ug/L	<0.50
1,2-Dichloroethane	ug/L	<0.50
1,1-Dichloroethene	ug/L	<0.50
cis-1,2-Dichloroethene	ug/L	<0.50
trans-1,2-Dichloroethene	ug/L	<0.50
1,2-Dichloropropane	ug/L	<0.50
1,3-Dichloropropane	ug/L	<0.50
2,2-Dichloropropane	ug/L	<0.50
1,1-Dichloropropene	ug/L	<0.50

As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: **475 Mechanics Valley Rd**

Project Number: 05-056RF96

Project Manager: James Wolf

Report Issued: 03/24/15 14:29

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		PW-475
LAB SAMPLE ID:		5031808-01
SAMPLE DATE:		03/18/15
RECEIVED DATE:		03/18/15
MATRIX	Units	Water

VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (continued)

cis-1,3-Dichloropropene	ug/L	<0.50
trans-1,3-Dichloropropene	ug/L	<0.50
Diisopropyl ether (DIPE)	ug/L	<0.50
Ethyl tert-butyl ether (ETBE)	ug/L	<0.50
Ethylbenzene	ug/L	<0.50
Hexachlorobutadiene	ug/L	<0.50
Isopropylbenzene (Cumene)	ug/L	<0.50
4-Isopropyltoluene	ug/L	<0.50
Methyl tert-butyl ether (MTBE)	ug/L	**2.70**
Methylene chloride	ug/L	<0.50
Naphthalene	ug/L	<0.50
n-Propylbenzene	ug/L	<0.50
Styrene	ug/L	<0.50
1,1,1,2-Tetrachloroethane	ug/L	<0.50
1,1,2,2-Tetrachloroethane	ug/L	<0.50
Tetrachloroethene	ug/L	<0.50
Toluene	ug/L	<0.50
1,2,3-Trichlorobenzene	ug/L	<0.50
1,2,4-Trichlorobenzene	ug/L	<0.50
1,1,1-Trichloroethane	ug/L	<0.50
1,1,2-Trichloroethane	ug/L	<0.50
Trichloroethene	ug/L	<0.50
Trichlorofluoromethane (Freon 11)	ug/L	<0.50
1,2,3-Trichloropropane	ug/L	<0.50
1,2,4-Trimethylbenzene	ug/L	<0.50
1,3,5-Trimethylbenzene	ug/L	<0.50
Vinyl chloride	ug/L	<0.50
o-Xylene	ug/L	<0.50
m- & p-Xylenes	ug/L	<0.50
4-Bromofluorobenzene	[surr]	84.0%
1,2-Dichlorobenzene-d4	[surr]	87.0%

As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 • Fax 410-247-7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water)
PW (potable water)

Company Name: AEC
Project Name: 475 Mechanics Valley Rd
Sampler(s): S. Dessel
Project Manager: J. Wolf
Project ID: 05-056-RF96
P.O. Number: 05-056-RF96

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	VOCs 524.2	Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
PW-475	3/18/15	1:45	X			2	X	1+1 HCL		5031808-01 A

Relinquished by: (Signature) Stephen Dessel — Date/Time 3/18/15 14:14
(Printed) Stephen Dessel
Received by: (Signature) L. McAdoo — Date/Time
(Printed) Kayla McAdoo
Relinquished by: (Signature) — Date/Time
(Printed)
Received by Lab: (Signature) — Date/Time
(Printed)
Received by: (Signature) — Date/Time
(Printed)

Delivery Method:
- ☐ Courier
- X Client
- ☐ UPS
- ☐ FedEx
- ☐ USPS
- ☐ Other: ____

Special Instructions/QC Requirements & Comments:
Results to: jstein, jwolf, sdessel

Turn Around Time:
- X Normal (7 day)
- ☐ 5 day
- ☐ 4 day
- ☐ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: ____
- ☐ Specific Due Date: ____

Lab Use:
Temp: 10.2 °C
X Received on Ice
X Received same day
☐ Preservation Appropriate

Sample Disposal:
- ☐ Return to Client
- X Disposal by lab
- ☐ Archive for ____ days

MSS-F001-03/13

April 15, 2015

Occupant
487 Mechanics Valley Road
North East, MD, 21901

Re: **Supply Well Sampling Analytical Results**

To Whom It May Concern:

During routine testing of the groundwater monitoring well network associated with the underground storage tank system located at 500 Mechanics Valley Road (Royal Farms #96), petroleum hydrocarbons were detected in the groundwater. As a result of these findings the Maryland Department of the Environment (MDE) has required testing of select adjacent drinking water supply wells. According to MDE correspondences dated October 6, 2011, December 8, 2011, and May 2, 2012 your well has been selected for quarterly sampling.

Advantage Environmental Consultants (AEC) of Jessup, Maryland has been retained by Royal Farms to perform this testing. This sampling was completed on March 18, 2015. The sample collected from your well was analyzed for volatile organic compounds (VOCs), including fuel oxygenates, via Environmental Protection Agency (EPA) Analytical Method 524.2. The attached laboratory analytical results indicate all analyzed compounds are below the laboratory detection limits.

If you have any questions regarding these results please contact the MDE (Susan Bull) who can be reached at 410.537.3499 or sbull@mde.state.md.us.

Sincerely,
Advantage Environmental Consultants, LLC

James Wolf
Project Manager

Attachment

8610 Washington Blvd Suite 217 Jessup, MD 20794 Phone: 301.776.0500 Fax: 301.776.1123

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: **487 Mechanics Valley Rd**

Project Number: 05-056RF96
Project Manager: James Wolf
Report Issued: 03/24/15 14:27

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		PW-487
LAB SAMPLE ID:		5031806-01
SAMPLE DATE:		03/18/15
RECEIVED DATE:		03/18/15
MATRIX	Units	Water

VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (Water)

tert-Amyl alcohol (TAA)	ug/L	<10.0
tert-Amyl methyl ether (TAME)	ug/L	<0.50
Benzene	ug/L	<0.50
Bromobenzene	ug/L	<0.50
Bromochloromethane	ug/L	<0.50
Bromodichloromethane	ug/L	<0.50
Bromoform	ug/L	<0.50
Bromomethane	ug/L	<0.50
tert-Butanol (TBA)	ug/L	<10.0
n-Butylbenzene	ug/L	<0.50
sec-Butylbenzene	ug/L	<0.50
tert-Butylbenzene	ug/L	<0.50
Carbon tetrachloride	ug/L	<0.50
Chlorobenzene	ug/L	<0.50
Chloroethane	ug/L	<0.50
Chloroform	ug/L	<0.50
Chloromethane	ug/L	<0.50
2-Chlorotoluene	ug/L	<0.50
4-Chlorotoluene	ug/L	<0.50
Dibromochloromethane	ug/L	<0.50
1,2-Dibromo-3-chloropropane	ug/L	<0.50
1,2-Dibromoethane (EDB)	ug/L	<0.50
Dibromomethane	ug/L	<0.50
1,2-Dichlorobenzene	ug/L	<0.50
1,3-Dichlorobenzene	ug/L	<0.50
1,4-Dichlorobenzene	ug/L	<0.50
Dichlorodifluoromethane	ug/L	<0.50
1,1-Dichloroethane	ug/L	<0.50
1,2-Dichloroethane	ug/L	<0.50
1,1-Dichloroethene	ug/L	<0.50
cis-1,2-Dichloroethene	ug/L	<0.50
trans-1,2-Dichloroethene	ug/L	<0.50
1,2-Dichloropropane	ug/L	<0.50
1,3-Dichloropropane	ug/L	<0.50
2,2-Dichloropropane	ug/L	<0.50
1,1-Dichloropropene	ug/L	<0.50

As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: 487 Mechanics Valley Rd

Project Number: 05-056RF96

Project Manager: James Wolf

Report Issued: 03/24/15 14:27

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		PW-487
LAB SAMPLE ID:		5031806-01
SAMPLE DATE:		03/18/15
RECEIVED DATE:		03/18/15
MATRIX	Units	Water

VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (continued)

cis-1,3-Dichloropropene	ug/L	<0.50
trans-1,3-Dichloropropene	ug/L	<0.50
Diisopropyl ether (DIPE)	ug/L	<0.50
Ethyl tert-butyl ether (ETBE)	ug/L	<0.50
Ethylbenzene	ug/L	<0.50
Hexachlorobutadiene	ug/L	<0.50
Isopropylbenzene (Cumene)	ug/L	<0.50
4-Isopropyltoluene	ug/L	<0.50
Methyl tert-butyl ether (MTBE)	ug/L	<0.50
Methylene chloride	ug/L	<0.50
Naphthalene	ug/L	<0.50
n-Propylbenzene	ug/L	<0.50
Styrene	ug/L	<0.50
1,1,1,2-Tetrachloroethane	ug/L	<0.50
1,1,2,2-Tetrachloroethane	ug/L	<0.50
Tetrachloroethene	ug/L	<0.50
Toluene	ug/L	<0.50
1,2,3-Trichlorobenzene	ug/L	<0.50
1,2,4-Trichlorobenzene	ug/L	<0.50
1,1,1-Trichloroethane	ug/L	<0.50
1,1,2-Trichloroethane	ug/L	<0.50
Trichloroethene	ug/L	<0.50
Trichlorofluoromethane (Freon 11)	ug/L	<0.50
1,2,3-Trichloropropane	ug/L	<0.50
1,2,4-Trimethylbenzene	ug/L	<0.50
1,3,5-Trimethylbenzene	ug/L	<0.50
Vinyl chloride	ug/L	<0.50
o-Xylene	ug/L	<0.50
m- & p-Xylenes	ug/L	<0.50
4-Bromofluorobenzene	[surr]	87.0%
1,2-Dichlorobenzene-d4	[surr]	90.0%

As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 • Fax 410-247-7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water) PW (potable water)

Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$

Analysis Requested: VOCs 524.2

Company Name: AEC
Project Name: 487 Mechanics Valley Rd
Sampler(s): S. Dessel
Project Manager: J. Wolf
Project ID: 05-056-RF96
P.O. Number: 05-056 RF96

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
PW-487	3/18/15	11:40	X			2	1+1 HCL	5031806-01 A

Relinquished by: (Signature) Date/Time 3/18/15 14:14 (Printed) Stephen Dessel

Received by: (Signature) K. McAdoo (Printed) Karla McAdoo

Relinquished by: (Signature) Date/Time (Printed)

Received by Lab: (Signature) Date/Time (Printed)

Relinquished by: (Signature) Date/Time (Printed)

Received by: (Signature) Date/Time (Printed)

Delivery Method: ☐ Courier ☒ Client ☐ UPS ☐ FedEx ☐ USPS ☐ Other: ____

Special Instructions/QC Requirements & Comments: Results to: jwolf, jstein, sdessel

Turn Around Time: ☒ Normal (7 day) ☐ 5 day ☐ 4 day ☐ 3 day ☐ Rush (2 day) ☐ Next Day ☐ Other: ____ ☐ Specific Due Date: ____

Lab Use: Temp: 10.2°C ☒ Received on Ice ☒ Received same day ☐ Preservation Appropriate

Sample Disposal: ☐ Return to Client ☒ Disposal by lab ☐ Archive for ____ days

MSS-F001-03/13

April 15, 2015

Occupant (493 Mechanics Valley Road)
P.O. Box 571
North East, MD, 21901

Re: **Supply Well Sampling Analytical Results**

To Whom It May Concern:

During routine testing of the groundwater monitoring well network associated with the underground storage tank system located at 500 Mechanics Valley Road (Royal Farms #96), petroleum hydrocarbons were detected in the groundwater. As a result of these findings the Maryland Department of the Environment (MDE) has required testing of select adjacent drinking water supply wells. According to MDE correspondences dated October 6, 2011, December 8, 2011, and May 2, 2012 your well has been selected for quarterly sampling.

Advantage Environmental Consultants (AEC) of Jessup, Maryland has been retained by Royal Farms to perform this testing. This sampling was completed on March 25, 2015. The sample collected from your well was analyzed for volatile organic compounds (VOCs), including fuel oxygenates, via Environmental Protection Agency (EPA) Analytical Method 524.2. The attached laboratory analytical results indicate all analyzed compounds are below the laboratory detection limits, with the exception of methyl tert-butyl ether (MTBE), which was detected at a concentration below its MDE action level of 20 micrograms per Liter (µg/L).

If you have any questions regarding these results please contact the MDE (Susan Bull) who can be reached at 410.537.3499 or sbull@mde.state.md.us.

Sincerely,
Advantage Environmental Consultants, LLC

James Wolf
Project Manager

Attachment

8610 Washington Blvd Suite 217 Jessup, MD 20794 Phone: 301.776.0500 Fax: 301.776.1123

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: **493 Mechanics Valley Rd**

Project Number: 05-056RF96
Project Manager: James Wolf
Report Issued: 03/31/15 14:07

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		PW-493
LAB SAMPLE ID:		5032605-01
SAMPLE DATE:		03/25/15
RECEIVED DATE:		03/26/15
MATRIX	Units	Water

VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (Water)

tert-Amyl alcohol (TAA)	ug/L	<10.0
tert-Amyl methyl ether (TAME)	ug/L	<0.50
Benzene	ug/L	<0.50
Bromobenzene	ug/L	<0.50
Bromochloromethane	ug/L	<0.50
Bromodichloromethane	ug/L	<0.50
Bromoform	ug/L	<0.50
Bromomethane	ug/L	<0.50
tert-Butanol (TBA)	ug/L	<10.0
n-Butylbenzene	ug/L	<0.50
sec-Butylbenzene	ug/L	<0.50
tert-Butylbenzene	ug/L	<0.50
Carbon tetrachloride	ug/L	<0.50
Chlorobenzene	ug/L	<0.50
Chloroethane	ug/L	<0.50
Chloroform	ug/L	<0.50
Chloromethane	ug/L	<0.50
2-Chlorotoluene	ug/L	<0.50
4-Chlorotoluene	ug/L	<0.50
Dibromochloromethane	ug/L	<0.50
1,2-Dibromo-3-chloropropane	ug/L	<0.50
1,2-Dibromoethane (EDB)	ug/L	<0.50
Dibromomethane	ug/L	<0.50
1,2-Dichlorobenzene	ug/L	<0.50
1,3-Dichlorobenzene	ug/L	<0.50
1,4-Dichlorobenzene	ug/L	<0.50
Dichlorodifluoromethane	ug/L	<0.50
1,1-Dichloroethane	ug/L	<0.50
1,2-Dichloroethane	ug/L	<0.50
1,1-Dichloroethene	ug/L	<0.50
cis-1,2-Dichloroethene	ug/L	<0.50
trans-1,2-Dichloroethene	ug/L	<0.50
1,2-Dichloropropane	ug/L	<0.50
1,3-Dichloropropane	ug/L	<0.50
2,2-Dichloropropane	ug/L	<0.50
1,1-Dichloropropene	ug/L	<0.50

As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: **493 Mechanics Valley Rd**

Project Number: 05-056RF96

Project Manager: James Wolf

Report Issued: 03/31/15 14:07

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		PW-493
LAB SAMPLE ID:		5032605-01
SAMPLE DATE:		03/25/15
RECEIVED DATE:		03/26/15
MATRIX	Units	Water

VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (continued)

cis-1,3-Dichloropropene	ug/L	<0.50
trans-1,3-Dichloropropene	ug/L	<0.50
Diisopropyl ether (DIPE)	ug/L	<0.50
Ethyl tert-butyl ether (ETBE)	ug/L	<0.50
Ethylbenzene	ug/L	<0.50
Hexachlorobutadiene	ug/L	<0.50
Isopropylbenzene (Cumene)	ug/L	<0.50
4-Isopropyltoluene	ug/L	<0.50
Methyl tert-butyl ether (MTBE)	ug/L	**4.59**
Methylene chloride	ug/L	<0.50
Naphthalene	ug/L	<0.50
n-Propylbenzene	ug/L	<0.50
Styrene	ug/L	<0.50
1,1,1,2-Tetrachloroethane	ug/L	<0.50
1,1,2,2-Tetrachloroethane	ug/L	<0.50
Tetrachloroethene	ug/L	<0.50
Toluene	ug/L	<0.50
1,2,3-Trichlorobenzene	ug/L	<0.50
1,2,4-Trichlorobenzene	ug/L	<0.50
1,1,1-Trichloroethane	ug/L	<0.50
1,1,2-Trichloroethane	ug/L	<0.50
Trichloroethene	ug/L	<0.50
Trichlorofluoromethane (Freon 11)	ug/L	<0.50
1,2,3-Trichloropropane	ug/L	<0.50
1,2,4-Trimethylbenzene	ug/L	<0.50
1,3,5-Trimethylbenzene	ug/L	<0.50
Vinyl chloride	ug/L	<0.50
o-Xylene	ug/L	<0.50
m- & p-Xylenes	ug/L	<0.50
4-Bromofluorobenzene	[surr]	92.0%
1,2-Dichlorobenzene-d4	[surr]	95.0%

As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 • Fax 410-247-7602
labman@mdspectral.com

Company Name: AEC
Project Name: 493 Mechanics Valley Rd
Sampler(s): Wolf
Project Manager: Wolf
Project ID: RF-96
P.O. Number: 05-056RF96

Matrix Codes: NW (nonpotable water) PW (potable water)

Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$

Analysis Requested: Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank; VOCs 524.2

MSS Lab ID: 5032605-01 A

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	VOCs 524.2	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
PW-493	3/25/15	13:15	PW			2	X	1+1 HCL	

Relinquished by: (Signature) — (Printed): James Wolf — Date/Time:

Received by: (Signature) — (Printed): — Date/Time:

Relinquished by: (Signature) — (Printed): — Date/Time:

Received by: (Signature) — (Printed): — Date/Time:

Relinquished by: (Signature) — (Printed): James Wolf — Date/Time: 3/26/15 11:45

Received by Lab: (Signature) — (Printed): Andrew Boecker — Date/Time:

Delivery Method: ☐ Courier ☒ Client ☐ UPS ☐ FedEx ☐ USPS ☐ Other: ____

Special Instructions/QC Requirements & Comments:

Turn Around Time: ☒ Normal (7 day) ☐ 5 day ☐ 4 day ☐ 3 day ☐ Rush (2 day) ☐ Next Day ☐ Other: ____ ☐ Specific Due Date: ____

Lab Use: Temp: 3.4 °C ☒ Received on Ice ☐ Received same day ☒ Preservation Appropriate

Sample Disposal: ☐ Return to Client ☒ Disposal by lab ☐ Archive for ____ days

MSS-F001-03/13

April 15, 2015

Occupant
505 Mechanics Valley Road
North East, MD 21901

Re: **Supply Well Sampling Analytical Results**

To Whom It May Concern:

During routine testing of the groundwater monitoring well network associated with the underground storage tank system located at 500 Mechanics Valley Road (Royal Farms #96), petroleum hydrocarbons were detected in the groundwater. As a result of these findings the Maryland Department of the Environment (MDE) has required testing of select adjacent drinking water supply wells. According to MDE correspondences dated October 6, 2011, December 8, 2011, May 2, 2012, and April 1, 2014 your well has been selected for quarterly sampling.

Based on elevated levels of methyl tert-butyl ether (MTBE) identified in a sample collected from your well on June 14, 2011, a point-of-entry, granular activated carbon (GAC) filtration system was installed at your property on July 5, 2011. The GAC filtration vessels were re-bedded on October 8, 2014.

Advantage Environmental Consultants (AEC) of Jessup, Maryland has been retained by Royal Farms to perform this testing. This sampling was completed on March 18, 2015. Samples were collected pre-filtration (Influent), mid-filtration (Mid 1), and post-filtration (Effluent). The samples collected from your filtration system were analyzed for volatile organic compounds (VOCs), including fuel oxygenates, via Environmental Protection Agency (EPA) Analytical Method 524.2. The attached laboratory analytical results indicate all analyzed compounds in the effluent samples are below the laboratory detection limits.

If you have any questions regarding these results please contact the MDE (Susan Bull) who can be reached at 410.537.3499 or susan.bull@maryland.gov.

Sincerely,
Advantage Environmental Consultants, LLC

James Wolf
Project Manager

Attachment

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: **505 Mechanics Valley Rd**

Project Number: 05-056RF96
Project Manager: James Wolf
Report Issued: 03/24/15 12:22

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		PW 505-EFF	PW 505-MID1	PW 505-IN
LAB SAMPLE ID:		5031810-01	5031810-02	5031810-03
SAMPLE DATE:		03/18/15	03/18/15	03/18/15
RECEIVED DATE:		03/18/15	03/18/15	03/18/15
MATRIX	Units	Water	Water	Potable Water
VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (Water)				
tert-Amyl alcohol (TAA)	ug/L	<10.0	<10.0	**40.8**
tert-Amyl methyl ether (TAME)	ug/L	<0.50	<0.50	**2.64**
Benzene	ug/L	<0.50	<0.50	<0.50
Bromobenzene	ug/L	<0.50	<0.50	<0.50
Bromochloromethane	ug/L	<0.50	<0.50	<0.50
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50
Bromoform	ug/L	<0.50	<0.50	<0.50
Bromomethane	ug/L	<0.50	<0.50	<0.50
tert-Butanol (TBA)	ug/L	<10.0	<10.0	**60.4**
n-Butylbenzene	ug/L	<0.50	<0.50	<0.50
sec-Butylbenzene	ug/L	<0.50	<0.50	<0.50
tert-Butylbenzene	ug/L	<0.50	<0.50	<0.50
Carbon tetrachloride	ug/L	<0.50	<0.50	<0.50
Chlorobenzene	ug/L	<0.50	<0.50	<0.50
Chloroethane	ug/L	<0.50	<0.50	<0.50
Chloroform	ug/L	<0.50	<0.50	<0.50
Chloromethane	ug/L	<0.50	<0.50	<0.50
2-Chlorotoluene	ug/L	<0.50	<0.50	<0.50
4-Chlorotoluene	ug/L	<0.50	<0.50	<0.50
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50
1,2-Dibromo-3-chloropropane	ug/L	<0.50	<0.50	<0.50
1,2-Dibromoethane (EDB)	ug/L	<0.50	<0.50	<0.50
Dibromomethane	ug/L	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50
Dichlorodifluoromethane	ug/L	<0.50	<0.50	<0.50
1,1-Dichloroethane	ug/L	<0.50	<0.50	<0.50
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50
1,1-Dichloroethene	ug/L	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	ug/L	<0.50	<0.50	<0.50
trans-1,2-Dichloroethene	ug/L	<0.50	<0.50	<0.50
1,2-Dichloropropane	ug/L	<0.50	<0.50	<0.50
1,3-Dichloropropane	ug/L	<0.50	<0.50	<0.50
2,2-Dichloropropane	ug/L	<0.50	<0.50	<0.50
1,1-Dichloropropene	ug/L	<0.50	<0.50	<0.50

As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: 505 Mechanics Valley Rd

Project Number: 05-056RF96

Project Manager: James Wolf

Report Issued: 03/24/15 12:22

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		PW 505-EFF	PW 505-MID1	PW 505-IN
LAB SAMPLE ID:		5031810-01	5031810-02	5031810-03
SAMPLE DATE:		03/18/15	03/18/15	03/18/15
RECEIVED DATE:		03/18/15	03/18/15	03/18/15
MATRIX	Units	Water	Water	Potable Water

VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (continued)

cis-1,3-Dichloropropene	ug/L	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	ug/L	<0.50	<0.50	<0.50
Diisopropyl ether (DIPE)	ug/L	<0.50	<0.50	<0.50
Ethyl tert-butyl ether (ETBE)	ug/L	<0.50	<0.50	<0.50
Ethylbenzene	ug/L	<0.50	<0.50	<0.50
Hexachlorobutadiene	ug/L	<0.50	<0.50	<0.50
Isopropylbenzene (Cumene)	ug/L	<0.50	<0.50	<0.50
4-Isopropyltoluene	ug/L	<0.50	<0.50	<0.50
Methyl tert-butyl ether (MTBE)	ug/L	<0.50	<0.50	**42.1**
Methylene chloride	ug/L	<0.50	<0.50	<0.50
Naphthalene	ug/L	<0.50	<0.50	<0.50
n-Propylbenzene	ug/L	<0.50	<0.50	<0.50
Styrene	ug/L	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50
Tetrachloroethene	ug/L	<0.50	<0.50	<0.50
Toluene	ug/L	<0.50	<0.50	<0.50
1,2,3-Trichlorobenzene	ug/L	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	ug/L	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	ug/L	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50
Trichloroethene	ug/L	<0.50	<0.50	<0.50
Trichlorofluoromethane (Freon 11)	ug/L	<0.50	<0.50	<0.50
1,2,3-Trichloropropane	ug/L	<0.50	<0.50	<0.50
1,2,4-Trimethylbenzene	ug/L	<0.50	<0.50	<0.50
1,3,5-Trimethylbenzene	ug/L	<0.50	<0.50	<0.50
Vinyl chloride	ug/L	<0.50	<0.50	<0.50
o-Xylene	ug/L	<0.50	<0.50	<0.50
m- & p-Xylenes	ug/L	<0.50	<0.50	<0.50
4-Bromofluorobenzene	[surr]	85.0%	85.0%	89.0%
1,2-Dichlorobenzene-d4	[surr]	84.0%	89.0%	86.0%

As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 • Fax 410-247-7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water)
PW (potable water)

Company Name: AEC
Project Name: 505 Mechanics Valley Rd
Sampler(s): S. Dessel
Project Manager: J. Wolf
Project ID: 05-056-RF96
P.O. Number: 05-056-RF96

Analysis Requested: VOCs 524.2

Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$ — Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	MSS Lab ID
PW505-EFF	3/18/15	11:15	X			2	5031810-01 A
PW505-Mid 1		11:25	X			2	5031810-02 A
PW 505-In		11:30	X			2	5031810-03 A

Relinquished by: (Signature) — Date/Time: 3/18/15 14:14 — (Printed) Stephen Dessel
Received by: (Signature) — (Printed) Laurie McAdoo
Relinquished by: (Signature) — Date/Time — (Printed)
Received by: (Signature) — Date/Time — (Printed)
Relinquished by: (Signature) — Date/Time — (Printed)
Received by: (Signature) — Date/Time — (Printed)

Delivery Method: ☐ Courier ☒ Client ☐ UPS ☐ FedEx ☐ USPS ☐ Other:

Special Instructions/QC Requirements & Comments: Results to: jwolf, jstein, sdessel

Turn Around Time: ☒ Normal (7 day) * ☐ 5 day ☐ 4 day ☐ 3 day ☐ Rush (2 day) ☐ Next Day ☐ Other: ☐ Specific Due Date: ____

Lab Use: Temp: 10.2°C ☒ Received on Ice ☒ Received same day ☐ Preservation Appropriate

Sample Disposal: ☐ Return to Client ☐ Disposal by lab ☒ Archive for ____ days

*HOLD

MSS-F001-03/13

April 15, 2015

Occupant
513 Mechanics Valley Road
North East, MD 21901

Re: **Supply Well Sampling Analytical Results**

To Whom It May Concern:

During routine testing of the groundwater monitoring well network associated with the underground storage tank system located at 500 Mechanics Valley Road (Royal Farms #96), petroleum hydrocarbons were detected in the groundwater. As a result of these findings the Maryland Department of the Environment (MDE) has required testing of select adjacent drinking water supply wells. According to MDE correspondences dated October 6, 2011, December 8, 2011, and May 2, 2012 your well has been selected for monthly sampling.

Based on elevated levels of methyl tert-butyl ether (MTBE) identified in a sample collected from your well on June 14, 2011, a point-of-entry, granular activated carbon (GAC) filtration system was installed at your property on July 5, 2011. It has been observed that this system had been disconnected.

Advantage Environmental Consultants (AEC) of Jessup, Maryland has been retained by Royal Farms to perform this testing. This sampling was completed on March 18, 2015. The sample collected from your well was analyzed for volatile organic compounds (VOCs), including fuel oxygenates, via Environmental Protection Agency (EPA) Analytical Method 524.2 The attached laboratory analytical results indicate all analyzed compounds are below the laboratory detection limits with the exception of MTBE, tert-Amyl alcohol (TAA), tert-Amyl methyl ether (TAME), and tert-Butanol (TBA). The attached laboratory analytical results show that all analyzed compounds are below MDE Standards (Generic Numeric Cleanup Standards for Groundwater and Soil - Interim Final Guidance Update No. 2.1 - June 2008), with the exception of methyl tert-butyl ether (MTBE) which was detected at a concentrations above its MDE action level of 20 µg/L.

If you have any questions regarding these results please contact the MDE (Susan Bull) who can be reached at 410.537.3499 or susan.bull@maryland.gov.

Sincerely,
Advantage Environmental Consultants, LLC

James Wolf
Project Manager

Attachment

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: **513 Mechanics Valley Rd**

Project Number: 05-056RF96
Project Manager: James Wolf
Report Issued: 03/24/15 14:28

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		PW-513
LAB SAMPLE ID:		5031807-01
SAMPLE DATE:		03/18/15
RECEIVED DATE:		03/18/15
MATRIX	Units	Water

VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (Water)

tert-Amyl alcohol (TAA)	ug/L	**23.2**
tert-Amyl methyl ether (TAME)	ug/L	**0.76**
Benzene	ug/L	<0.50
Bromobenzene	ug/L	<0.50
Bromochloromethane	ug/L	<0.50
Bromodichloromethane	ug/L	<0.50
Bromoform	ug/L	<0.50
Bromomethane	ug/L	<0.50
tert-Butanol (TBA)	ug/L	**31.9**
n-Butylbenzene	ug/L	<0.50
sec-Butylbenzene	ug/L	<0.50
tert-Butylbenzene	ug/L	<0.50
Carbon tetrachloride	ug/L	<0.50
Chlorobenzene	ug/L	<0.50
Chloroethane	ug/L	<0.50
Chloroform	ug/L	<0.50
Chloromethane	ug/L	<0.50
2-Chlorotoluene	ug/L	<0.50
4-Chlorotoluene	ug/L	<0.50
Dibromochloromethane	ug/L	<0.50
1,2-Dibromo-3-chloropropane	ug/L	<0.50
1,2-Dibromoethane (EDB)	ug/L	<0.50
Dibromomethane	ug/L	<0.50
1,2-Dichlorobenzene	ug/L	<0.50
1,3-Dichlorobenzene	ug/L	<0.50
1,4-Dichlorobenzene	ug/L	<0.50
Dichlorodifluoromethane	ug/L	<0.50
1,1-Dichloroethane	ug/L	<0.50
1,2-Dichloroethane	ug/L	<0.50
1,1-Dichloroethene	ug/L	<0.50
cis-1,2-Dichloroethene	ug/L	<0.50
trans-1,2-Dichloroethene	ug/L	<0.50
1,2-Dichloropropane	ug/L	<0.50
1,3-Dichloropropane	ug/L	<0.50
2,2-Dichloropropane	ug/L	<0.50
1,1-Dichloropropene	ug/L	<0.50

As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

Maryland spectral Services

Analytical Chemistry Services

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: 513 Mechanics Valley Rd

Project Number: 05-056RF96

Project Manager: James Wolf

Report Issued: 03/24/15 14:28

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
Jessup MD, 20794

CLIENT SAMPLE ID:		PW-513
LAB SAMPLE ID:		5031807-01
SAMPLE DATE:		03/18/15
RECEIVED DATE:		03/18/15
MATRIX	Units	Water

VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (continued)

cis-1,3-Dichloropropene	ug/L	<0.50
trans-1,3-Dichloropropene	ug/L	<0.50
Diisopropyl ether (DIPE)	ug/L	<0.50
Ethyl tert-butyl ether (ETBE)	ug/L	<0.50
Ethylbenzene	ug/L	<0.50
Hexachlorobutadiene	ug/L	<0.50
Isopropylbenzene (Cumene)	ug/L	<0.50
4-Isopropyltoluene	ug/L	<0.50
Methyl tert-butyl ether (MTBE)	ug/L	**25.5**
Methylene chloride	ug/L	<0.50
Naphthalene	ug/L	<0.50
n-Propylbenzene	ug/L	<0.50
Styrene	ug/L	<0.50
1,1,1,2-Tetrachloroethane	ug/L	<0.50
1,1,2,2-Tetrachloroethane	ug/L	<0.50
Tetrachloroethene	ug/L	<0.50
Toluene	ug/L	<0.50
1,2,3-Trichlorobenzene	ug/L	<0.50
1,2,4-Trichlorobenzene	ug/L	<0.50
1,1,1-Trichloroethane	ug/L	<0.50
1,1,2-Trichloroethane	ug/L	<0.50
Trichloroethene	ug/L	<0.50
Trichlorofluoromethane (Freon 11)	ug/L	<0.50
1,2,3-Trichloropropane	ug/L	<0.50
1,2,4-Trimethylbenzene	ug/L	<0.50
1,3,5-Trimethylbenzene	ug/L	<0.50
Vinyl chloride	ug/L	<0.50
o-Xylene	ug/L	<0.50
m- & p-Xylenes	ug/L	<0.50
4-Bromofluorobenzene	[surr]	85.0%
1,2-Dichlorobenzene-d4	[surr]	90.0%

As a NELAP accredited laboratory, MSS certifies that all applicable test results meet NELAC requirements.

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 • Fax 410-247-7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water) PW (potable water)

Company Name: AEC
Project Name: 513 Mechanics Valley Rd
Sampler(s): S. Dessel
Project Manager: J. Wolf
Project ID: 05-056-RF96
P.O. Number: 05-056-RF96

Analysis Requested: VOCs 524.2

Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$ — 1+1 HCL

Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank

MSS Lab ID: 5031807-01 A

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	VOCs 524.2	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
PW-513	3/18/15	11:35	X			8	X	1+1 HCL	5031807-01 A

Relinquished by: (Signature) [signature] Date/Time 3/18/15 (Printed) Stephen Dessel

Received by: (Signature) [signature] (Printed) Karla McAllen

Relinquished by: (Signature) (Printed) Date/Time

Received by Lab: (Signature) (Printed) Date/Time

Relinquished by: (Signature) (Printed) Date/Time

Received by: (Signature) (Printed) Date/Time

Delivery Method: ☐ Courier ☒ Client ☐ UPS ☐ FedEx ☐ USPS ☐ Other: ____

Special Instructions/QC Requirements & Comments: Results to: jwolf, jstein, sdessel

Turn Around Time: ☒ Normal (7 day) ☐ 5 day ☐ 4 day ☐ 3 day ☐ Rush (2 day) ☐ Next Day ☐ Other: ____ ☐ Specific Due Date: ____

Lab Use: Temp: 10.2°C ☒ Received on Ice ☒ Received same day ☐ Preservation Appropriate

Sample Disposal: ☐ Return to Client ☒ Disposal by lab ☐ Archive for ____ days

MSS-F001-03/13

Attachment F

VE/GE System Monitoring Worksheet
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road
North East, MD

Date: 1/7/2015
Time: 14:00
Recorded By: R. Swaninger

Main Control Panel	
System Running (Y/N)	Yes
Alarm Condition (Y/N)	No
Circuits Tripped (Y/N)	No
Stripper Backpressure (psig)	12.0
Run Time (hours)	10,206.3
Electric (kw/h)	203,458

VE/GE System - Building Interior	
SVE Exhaust Temperature (°F)	185
AWS-1 Vacuum Pressure (inHg)	11.0
Dilution Valve (% open)	75%
Compressor Tank Pressure (psi)	110
Pressure to Wells (psi)	18
GW Return Pressure (psi)	0
Ambient Room Temperature (°F)	35
Sump Transfer Pump Pressure (psi)	46
Bag Filter Vessel Pressure (psi)	40
Carbon 1 Pressure (psi)	34
Carbon 2 Pressure (psi)	28
Flow Meter Totalizer Value (gallons)	6,002,475
Approximate Flow Rate (gal/min)	6.43

Changed bag filters
Carbon tanks backflushed

VE/GE System Monitoring Worksheet
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road
North East, MD

Date: 1/15/2015
Time: 14:00
Recorded By: R. Swaninger

Main Control Panel	
System Running (Y/N)	Yes
Alarm Condition (Y/N)	Yes*
Circuits Tripped (Y/N)	No
Stripper Backpressure (psig)	12.0
Run Time (hours)	10,208.5
Electric (kw/h)	205,432

VE/GE System - Building Interior	
SVE Exhaust Temperature (°F)	100
AWS-1 Vacuum Pressure (inHg)	9.0
Dilution Valve (% open)	75%
Compressor Tank Pressure (psi)	110
Pressure to Wells (psi)	20
GW Return Pressure (psi)	0
Ambient Room Temperature (°F)	40
Sump Transfer Pump Pressure (psi)	45
Bag Filter Vessel Pressure (psi)	40
Carbon 1 Pressure (psi)	31
Carbon 2 Pressure (psi)	30
Flow Meter Totalizer Value (gallons)	6,043,425
Approximate Flow Rate (gal/min)	4.06

* Air compressor high temperature

VE/GE System Monitoring Worksheet
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road
North East, MD

Date: 1/20/2015
Time: 10:00
Recorded By: R. Swaninger

Main Control Panel	
System Running (Y/N)	Yes
Alarm Condition (Y/N)	Yes*
Circuits Tripped (Y/N)	No
Stripper Backpressure (psig)	12.0
Run Time (hours)	10,324.7
Electric (kw/h)	No Reading

VE/GE System - Building Interior	
SVE Exhaust Temperature (°F)	175
AWS-1 Vacuum Pressure (inHg)	11.0
Dilution Valve (% open)	75%
Compressor Tank Pressure (psi)	100
Pressure to Wells (psi)	20
GW Return Pressure (psi)	0
Ambient Room Temperature (°F)	50
Sump Transfer Pump Pressure (psi)	45
Bag Filter Vessel Pressure (psi)	41
Carbon 1 Pressure (psi)	32
Carbon 2 Pressure (psi)	28
Flow Meter Totalizer Value (gallons)	6,092,855
Approximate Flow Rate (gal/min)	7.09

* Air compressor high temperature
Blower oil is changed
Oil added to motor

VE/GE System Monitoring Worksheet
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road
North East, MD

Date: 1/29/2015
Time: 15:30
Recorded By: J. Ellis

Main Control Panel	
System Running (Y/N)	Yes
Alarm Condition (Y/N)	No
Circuits Tripped (Y/N)	No
Stripper Backpressure (psig)	11.0
Run Time (hours)	10,325.1
Electric (kw/h)	210,924

VE/GE System - Building Interior	
SVE Exhaust Temperature (°F)	187
AWS-1 Vacuum Pressure (inHg)	7.0
Dilution Valve (% open)	50%
Compressor Tank Pressure (psi)	95
Pressure to Wells (psi)	20
GW Return Pressure (psi)	0
Ambient Room Temperature (°F)	45
Sump Transfer Pump Pressure (psi)	42
Bag Filter Vessel Pressure (psi)	36
Carbon 1 Pressure (psi)	30
Carbon 2 Pressure (psi)	28
Flow Meter Totalizer Value (gallons)	6,140,700
Approximate Flow Rate (gal/min)	4.75

VE/GE System Monitoring Worksheet
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road
North East, MD

Date: 2/4/2015
Time: 9:00
Recorded By: R. Swaninger

Main Control Panel	
System Running (Y/N)	Yes
Alarm Condition (Y/N)	Yes*
Circuits Tripped (Y/N)	No
Stripper Backpressure (psig)	11.0
Run Time (hours)	10,462.7
Electric (kw/h)	214,882
VE/GE System - Building Interior	
SVE Exhaust Temperature (°F)	175
AWS-1 Vacuum Pressure (inHg)	11.0
Dilution Valve (% open)	75%
Compressor Tank Pressure (psi)	90
Pressure to Wells (psi)	20
GW Return Pressure (psi)	0
Ambient Room Temperature (°F)	38
Sump Transfer Pump Pressure (psi)	49
Bag Filter Vessel Pressure (psi)	45
Carbon 1 Pressure (psi)	38
Carbon 2 Pressure (psi)	30
Flow Meter Totalizer Value (gallons)	6,194,305
Approximate Flow Rate (gal/min)	6.49

* Air compressor high temperature
Changed bag filters
Carbon tanks backflushed

VE/GE System Monitoring Worksheet
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road
North East, MD

Date: 2/10/2015
Time: 9:15
Recorded By: R. Swaninger

Main Control Panel	
System Running (Y/N)	Yes
Alarm Condition (Y/N)	Yes*
Circuits Tripped (Y/N)	No
Stripper Backpressure (psig)	11.0
Run Time (hours)	10,463.5
Electric (kw/h)	216,727
VE/GE System - Building Interior	
SVE Exhaust Temperature (°F)	175
AWS-1 Vacuum Pressure (inHg)	7.0
Dilution Valve (% open)	75%
Compressor Tank Pressure (psi)	120
Pressure to Wells (psi)	20
GW Return Pressure (psi)	0
Ambient Room Temperature (°F)	40
Sump Transfer Pump Pressure (psi)	35
Bag Filter Vessel Pressure (psi)	30
Carbon 1 Pressure (psi)	28
Carbon 2 Pressure (psi)	25
Flow Meter Totalizer Value (gallons)	6,218,644
Approximate Flow Rate (gal/min)	2.82

* Air compressor high temperature
Changed bag filters
Carbon tanks backflushed

VE/GE System Monitoring Worksheet
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road
North East, MD

Date: 2/18/2015
Time: 9:30
Recorded By: R. Swaninger

Main Control Panel	
System Running (Y/N)	Yes
Alarm Condition (Y/N)	Yes*
Circuits Tripped (Y/N)	No
Stripper Backpressure (psig)	11.0
Run Time (hours)	10,608.0
Electric (kw/h)	220,290
VE/GE System - Building Interior	
SVE Exhaust Temperature (°F)	50
AWS-1 Vacuum Pressure (inHg)	0.0
Dilution Valve (% open)	75%
Compressor Tank Pressure (psi)	135
Pressure to Wells (psi)	20
GW Return Pressure (psi)	0
Ambient Room Temperature (°F)	35
Sump Transfer Pump Pressure (psi)	43
Bag Filter Vessel Pressure (psi)	41
Carbon 1 Pressure (psi)	32
Carbon 2 Pressure (psi)	28
Flow Meter Totalizer Value (gallons)	6,269,640
Approximate Flow Rate (gal/min)	5.88

* SVE low pressure. SVE belt is failing
No SVE readings

VE/GE System Monitoring Worksheet
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road
North East, MD

Date: 3/4/2015
Time: 9:00
Recorded By: R. Swaninger

Main Control Panel	
System Running (Y/N)	Yes
Alarm Condition (Y/N)	Yes*
Circuits Tripped (Y/N)	No
Stripper Backpressure (psig)	11.0
Run Time (hours)	10,766.6
Electric (kw/h)	225,320
VE/GE System - Building Interior	
SVE Exhaust Temperature (°F)	75
AWS-1 Vacuum Pressure (inHg)	1.0
Dilution Valve (% open)	75%
Compressor Tank Pressure (psi)	120
Pressure to Wells (psi)	20
GW Return Pressure (psi)	0
Ambient Room Temperature (°F)	40
Sump Transfer Pump Pressure (psi)	10
Bag Filter Vessel Pressure (psi)	10
Carbon 1 Pressure (psi)	38
Carbon 2 Pressure (psi)	36
Flow Meter Totalizer Value (gallons)	6,269,640
Approximate Flow Rate (gal/min)	5.88

* Air compressor high temperature
Changed bag filters
Carbon tanks backflushed

VE/GE System Monitoring Worksheet
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road
North East, MD

Date: 3/12/2015
Time: 9:00
Recorded By: J. Wolf

Main Control Panel	
System Running (Y/N)	Yes
Alarm Condition (Y/N)	No
Circuits Tripped (Y/N)	No
Stripper Backpressure (psig)	11.0
Run Time (hours)	10,767.4
Electric (kw/h)	226,171
VE/GE System - Building Interior	
SVE Exhaust Temperature (°F)	105
AWS-1 Vacuum Pressure (inHg)	7.5
Dilution Valve (% open)	75%
Compressor Tank Pressure (psi)	110
Pressure to Wells (psi)	19.5
GW Return Pressure (psi)	0
Ambient Room Temperature (°F)	50
Sump Transfer Pump Pressure (psi)	38
Bag Filter Vessel Pressure (psi)	16
Carbon 1 Pressure (psi)	35
Carbon 2 Pressure (psi)	22
Flow Meter Totalizer Value (gallons)	6,351,480
Approximate Flow Rate (gal/min)	7.10

* Air compressor high temperature
Changed one bag filter
SVE belt replaced

VE/GE System Monitoring Worksheet
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road
North East, MD

Date: 3/18/2015
Time: 9:15
Recorded By: R. Swaninger

Main Control Panel	
System Running (Y/N)	Yes
Alarm Condition (Y/N)	Yes*
Circuits Tripped (Y/N)	No
Stripper Backpressure (psig)	11.0
Run Time (hours)	10,902.5
Electric (kw/h)	229,158
VE/GE System - Building Interior	
SVE Exhaust Temperature (°F)	75
AWS-1 Vacuum Pressure (inHg)	2.0
Dilution Valve (% open)	100%
Compressor Tank Pressure (psi)	114
Pressure to Wells (psi)	20
GW Return Pressure (psi)	0
Ambient Room Temperature (°F)	35
Sump Transfer Pump Pressure (psi)	35
Bag Filter Vessel Pressure (psi)	10
Carbon 1 Pressure (psi)	32
Carbon 2 Pressure (psi)	4
Flow Meter Totalizer Value (gallons)	6,400,500
Approximate Flow Rate (gal/min)	5.67

* Air compressor high temperature
Changed bag filters
Carbon tanks backflushed

VE/GE System Monitoring Worksheet
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Road
North East, MD

Date: 3/27/2015
Time: 19:45
Recorded By: J. Wolf

Main Control Panel	
System Running (Y/N)	Yes
Alarm Condition (Y/N)	Yes*
Circuits Tripped (Y/N)	No
Stripper Backpressure (psig)	11.0
Run Time (hours)	10,903.3
Electric (kw/h)	229,158
VE/GE System - Building Interior	
SVE Exhaust Temperature (°F)	75
AWS-1 Vacuum Pressure (inHg)	2.0
Dilution Valve (% open)	100%
Compressor Tank Pressure (psi)	114
Pressure to Wells (psi)	20
GW Return Pressure (psi)	0
Ambient Room Temperature (°F)	35
Sump Transfer Pump Pressure (psi)	35
Bag Filter Vessel Pressure (psi)	10
Carbon 1 Pressure (psi)	32
Carbon 2 Pressure (psi)	4
Flow Meter Totalizer Value (gallons)	6,459,190
Approximate Flow Rate (gal/min)	4.53

* Air compressor high temperature
SVE belt replaced
Carbon tanks backflushed

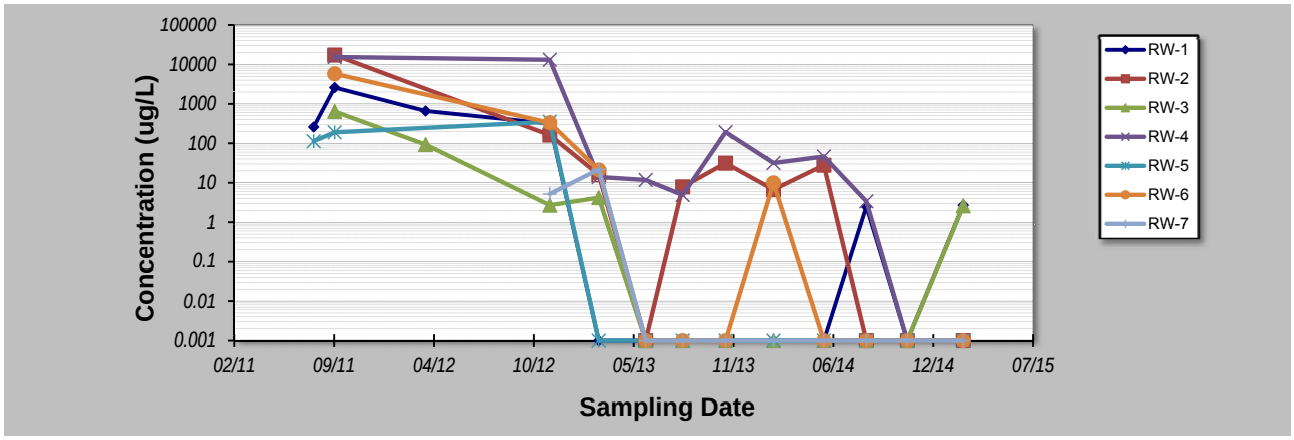
Attachment G

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date: 1-May-15
Facility Name: RF 96
Conducted By: JDW

Job ID: 05-056 RF 96
Constituent: Benzene
Concentration Units: ug/L

Sampling Point ID:		RW-1	RW-2	RW-3	RW-4	RW-5	RW-6	RW-7
Sampling Event	Sampling Date	BENZENE CONCENTRATION (ug/L)						
1	8/4/2011	260				113		
2	9/15/2011	2600	17300	640	15400	190	5800	
3	12/15/2011							
4	3/15/2012	660		93				
5	11/19/2012	317	162	2.7	13100	352	332	5.2
6	2/25/2013	0.001	16.1	4.2	14	0.001	21.2	21.8
7	5/30/2013	0.001	0.001	0.001	11.8	0.001	0.001	0.001
8	8/12/2013	0.001	7.9	0.001	4.9	0.001	0.001	0.001
9	11/6/2013	0.001	31.4	0.001	192	0.001	0.001	0.001
10	2/10/2014	0.001	6.7	0.001	31.7	0.001	10.0	0.001
11	5/22/2014	0.001	27.9	0.001	46.3	0.001	0.001	0.001
12	8/15/2014	2.5	0.001	0.001	3.4	0.001	0.001	0.001
13	11/5/2014	0.001	0.001	0.001	0.001	0.001	0.001	0.001
14	2/25/2015	2.7	0.001	2.6	0.001	0.001	0.001	0.001
15								
16								
17								
18								
19								
20								
Coefficient of Variation:		2.44	3.26	2.97	2.21	2.04	3.11	2.56
Mann-Kendall Statistic (S):		-23	-31	-29	-34	-24	-28	-15
Confidence Factor:		90.8%	99.2%	97.4%	99.6%	94.2%	98.4%	89.2%
Concentration Trend:		Prob. Decreasing	Decreasing	Decreasing	Decreasing	Prob. Decreasing	Decreasing	No Trend



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

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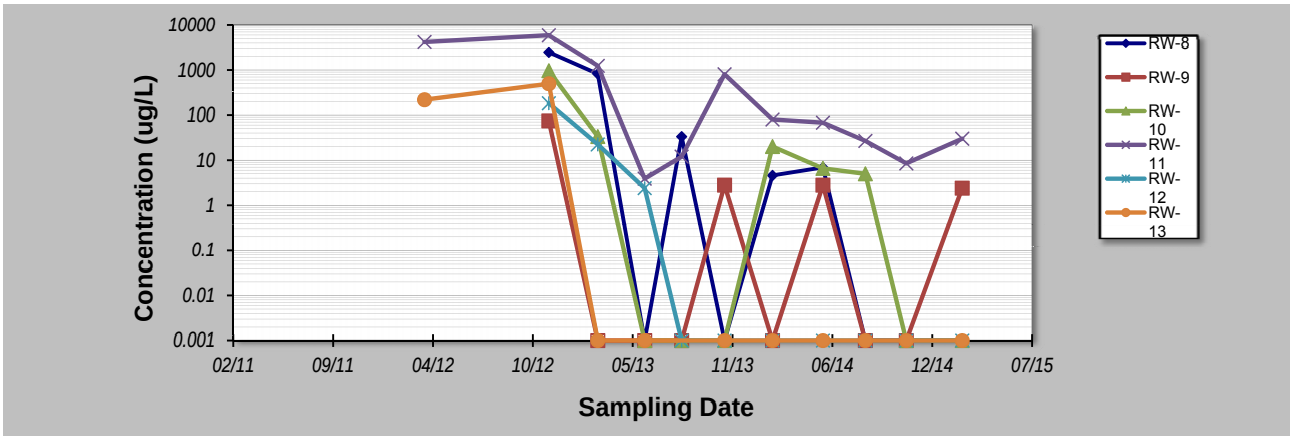
GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	1-May-15	Job ID:	05-056 RF 96
Facility Name:	RF 96	Constituent:	Benzene
Conducted By:	Wolf	Concentration Units:	ug/L

Sampling Point ID:	RW-8	RW-9	RW-10	RW-11	RW-12	RW-13	
Sampling Event	Sampling Date	BENZENE CONCENTRATION (ug/L)					
1	8/4/2011						
2	9/15/2011						
3	12/15/2011						
4	3/15/2012				4200		220
5	11/19/2012	2460	74.5	965	5930	184	497
6	2/25/2013	821	0.001	33.5	1240	22.4	0.001
7	5/30/2013	0.001	0.001	0.001	3.9	2.4	0.001
8	8/12/2013	33.3	0.001	0.001	12	0.001	
9	11/6/2013	0.001	2.8	0.001	805	0.001	0.001
10	2/10/2014	4.6	0.001	20.1	79.9	0.001	0.001
11	5/22/2014	6.9	2.8	6.6	67.8	0.001	0.001
12	8/15/2014	0.001	0.001	5	26.8	0.001	0.001
13	11/5/2014	0.001	0.001	0.001	8.5	0.001	0.001
14	2/25/2015	0.001	2.4	0.001	30	0.001	0.001
15							
16							
17							
18							
19							
20							
Coefficient of Variation:		2.38	2.83	2.94	1.80	2.77	2.30
Mann-Kendall Statistic (S):		-23	-3	-17	-25	-24	-15
Confidence Factor:		97.7%	56.9%	92.2%	97.0%	98.2%	89.2%
Concentration Trend:		Decreasing	No Trend	Prob. Decreasing	Decreasing	Decreasing	No Trend



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
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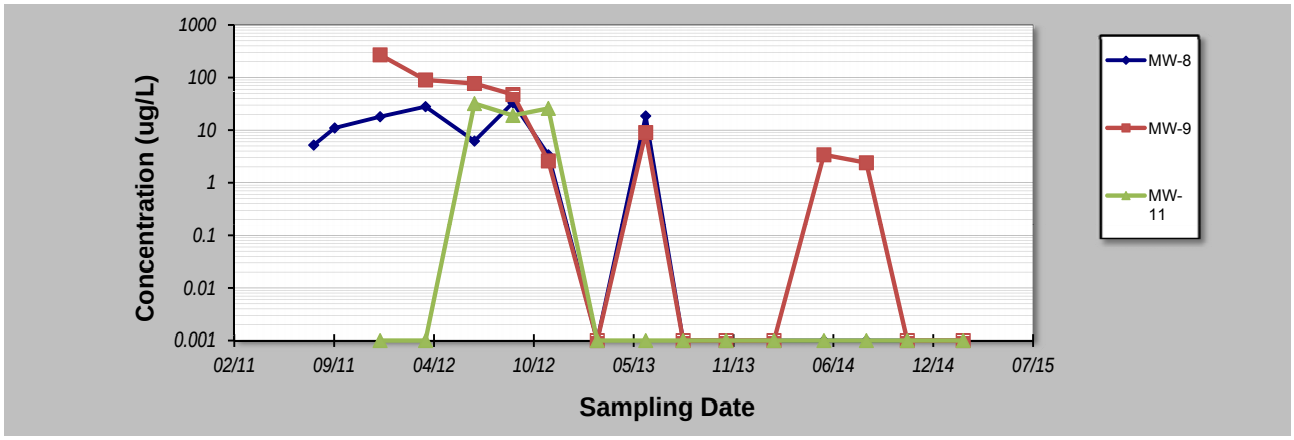
GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	1-May-15	Job ID:	05-056 RF 96
Facility Name:	RF 96	Constituent:	Benzene
Conducted By:	Wolf	Concentration Units:	ug/L

Sampling Point ID:	MW-8	MW-9	MW-11				
Sampling Event	Sampling Date	BENZENE CONCENTRATION (ug/L)						
1	8/4/2011	5.2						
2	9/15/2011	11						
3	12/15/2011	18	270	0.001				
4	3/15/2012	28	90	0.001				
5	6/21/2012	6.2	77	32				
6	9/6/2012	33.2	47.5	19				
7	11/16/2012	3.4	2.6	25.9				
8	2/22/2013	0.001	0.001	0.001				
9	5/30/2013	18.6	9.0	0.001				
10	8/13/2013	0.001	0.001	0.001				
11	11/7/2013	0.001	0.001	0.001				
12	2/11/2014	0.001	0.001	0.001				
13	5/22/2014	0.001	3.4	0.001				
14	8/15/2014	0.001	2.4	0.001				
15	11/5/2014	0.001	0.001	0.001				
16	2/25/2015	0.001	0.001	0.001				
17								
18								
19								
20								
Coefficient of Variation:		1.42	2.07	2.04				
Mann-Kendall Statistic (S):		-56	-54	-22				
Confidence Factor:		99.4%	99.9%	87.2%				
Concentration Trend:		Decreasing	Decreasing	No Trend				



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
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