Quarterly Progress Report – 2nd 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 VE/GE System Trial Shutdown
Reporting Period:	Groundwater Sampling: Second Quarter 2015 System operation: 4-1-15 through 5-27-15

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:	84.18 / 91.63 feet on May 13, 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.
April 13, 2015:	1st Quarter - 2015 Discharge Monitoring Report is submitted to the MDE.
May 14, 2015:	*Quarterly Progress Report –1st Quarter 2015* outlined VE/GE System operation and recovery estimates between 1-1-15 and 3-31-15, as well as groundwater and potable well sampling procedures and results for the quarter.
May 21, 2015:	MDE issues *Rebound Evaluation Work Plan Approval* letter.

Work Authorized and Performed During this Quarter

April 1:	VE/GE system operation and maintenance (O&M), GE system sampling. VE System off as part of pulsing procedure.
April 9:	Pulsing visit. VE System on as part of pulsing procedure.
April 16:	VE/GE system O&M, discharge sampling, VE effluent sampling. VE System off as part of pulsing procedure.
April 22:	Pulsing visit. VE System on as part of pulsing procedure.
April 29:	Pulsing visit, GE system sampling. VE System off as part of pulsing procedure.
May 6:	Pulsing visit.
May 13:	VE/GE system O&M, discharge sampling, monitoring well gauging, VE effluent sampling. VE System on as part of pulsing procedure.
May 20:	Pulsing visit, VE System off as part of pulsing procedure.
May 27:	VE/GE System shut-off to begin rebound evaluation.
May 28:	Sampling of the monitoring well and deep well networks.
May 29:	Sampling of the recovery well network.
June 23:	RW-13 is sampled.
June 29:	Selected recovery wells are sampled as part of the rebound assessment.

The groundwater samples were collected on May 28 and 29, 2015 and analyzed according to Environmental Protection Agency (EPA) protocols from the monitoring well, recovery well, and deep bedrock well networks. Groundwater samples were collected using the purge and sample technique from the monitoring and recovery well networks. Deep monitoring wells were sampled using hydrasleeve technology. The VE/GE system was shut down for 24 hours prior to collection of samples and remained shut down for the remainder of the quarter for the VE/GE System trial shutdown and rebound evaluation. A groundwater gradient map depicting groundwater conditions on May 13, 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-point (PW505-Mid1) and effluent (PW505-eff). 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).

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-9. 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-9 indicate a concentration of TPH DRO above MDE standards. Laboratory analytical results for this sample also show detectable levels of acetone, ethylbenzene, methyl tert-butyl ether (MTBE), 1,2,4-trimethylbenzene, o-xylene, and m- & p- xylenes below regulatory standards. All other analytes were BDL.

Recovery Wells – Laboratory analytical results indicate that the recovery wells RW-1, RW-5, RW-7, RW-9, and RW-12 were BDL for all analytes. Table 2 in Attachment B summarizes current and historical groundwater recovery well analytical results.

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

Laboratory analytical results for recovery well RW-4 show a detectable level of benzene, naphthalene, and TPH DRO above MDE standards. Laboratory analytical results for this sample also show detectable levels of 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-6 indicate a concentration of TPH DRO above MDE standards. Laboratory analytical results for this sample also show a detectable level of TAA below regulatory standards. All other analytes were BDL.

Laboratory analytical results for recovery well RW-8 show a detectable level of naphthalene, TPH DRO, and TPH GRO above MDE standards. Laboratory analytical results for this sample also show detectable levels of 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-10 indicate a concentration of TPH DRO above MDE standards. Laboratory analytical results for this sample also show a detectable level of benzene below regulatory standards. All other analytes were BDL.

Laboratory analytical results for recovery well RW-11 show a detectable level of benzene, naphthalene, TPH DRO, and TPH GRO above MDE standards. Laboratory analytical results for this sample also show detectable levels of TAA, ethylbenzene, isopropylbenzene, 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-13 indicate a concentration of TPH DRO above MDE standards. Laboratory analytical results for this sample also show a detectable level of toluene below regulatory standards. All other analytes were BDL.

Bedrock Wells - Laboratory analysis from the sample taken from MW-10D Middle at a depth of 92 feet show detectable levels of MTBE and Tetrachloroethene (PCE) below regulatory standards. All other analytes were BDL.

Laboratory analysis from the sample taken from MW-12D Deep at a depth of 148 feet shows a detectable level of MTBE below regulatory standards. All other analytes were BDL.

Laboratory analysis for both depth intervals (39 feet and 137 feet) at MW-13-D indicate no detectible concentrations of fuel constituents with the exception of MTBE in the sample taken from 137 feet in depth. MTBE was detected at a concentration below regulatory standards. Table 2 in Attachment B summarizes current and historical bedrock well analytical results.

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 463, 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.

Monitored Natural Attenuation- Groundwater field parameter and laboratory analytical results indicate that natural attenuation is occurring at the Site in the vicinity down gradient of the source area. Dissolved oxygen levels ranged from 8.60 to 10.67 milligrams per liter (mg/L) indicating that oxygen is available for oxidation of petroleum hydrocarbons. Lab results from MW-9 shows a lack of nitrate and a high relative concentration of sulfate and dissolved iron. This indicates that iron reduction and sulfur reduction are occurring in MW-9. Detectable concentrations of iron and sulfate were also reported from the samples taken in MW-11. A high concentration of sulfate in MW-8 was also observed, indicating that sulfate reduction is occurring in MW-8. Results from MW-6 show dissolved oxygen, nitrate, and sulfate are available for natural attenuation of fuel constituents. Monitored Natural Attenuation results are shown on Table 5 in Attachment B

VE/GE System Performance Summary

System Operation

Period:	4-1-15 through 5-27-15
Operating Days VE:	21 out of 56 days
Operating Days GE:	56 out of 56 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:	294,600 gallons
Average System Flow Rate:	3.7 gpm
Average Recovery Well Flow Rate:	0.33 gpm
LPH Recovery (Period/Cumulative):	0 / 0 gal.
System Dissolved Phase Recovery (Period/Cumulative):	0.00 / 3.7 gal.
Average Groundwater BTEX Concentration (influent/effluent)	0.0 µg/L / BDL
Average BTEX Treatment Efficiency	100%

Vapor Recovery

Discharge in Period:	7,812,000 cubic feet
Average Manifold Flow Rate:	387.5 CFM
Average Recovery Well Flow Rate:	35.22 CFM
Average Manifold Vacuum:	7.3 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)	1.1 ppm

Hydrocarbon Recovery Estimates (Gallons)

Total Recovery (Period/Cumulative):	0.7 / 657.4 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 56 days. The VE portion of the treatment system was operational for 21 days due to the VE pulsing activities. Use of the VE/GE system was discontinued on May 27, 2015 to begin a trial shutdown. 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.

Since startup through March 27, 2015, approximately 8,265,750 gallons of liquid and approximately 231,574,000 cubic feet of air have been processed by the system, removing approximately 452.4 gallons of petroleum hydrocarbons. Including pre-startup recovery efforts, an estimated 657.4 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 screening did not show any response from SVE recovery during this period.

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 continued until the trial shutdown began.

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.

VE/GE System Trial Shutdown and Rebound Evaluation

Based on asymptotic recovery trends and diminished concentrations of fuel constituents reported from quarterly sampling events, a trial shutdown of the VE/GE system began on May 27, 2015. Following the shutdown, a program of recovery and monitoring well sampling was performed to monitor rebound of fuel constituents in selected wells. Reports of the rebound assessment sampling are provided under separate cover. The VE/GE system remained in trial shutdown through the end of the second quarter 2015.

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

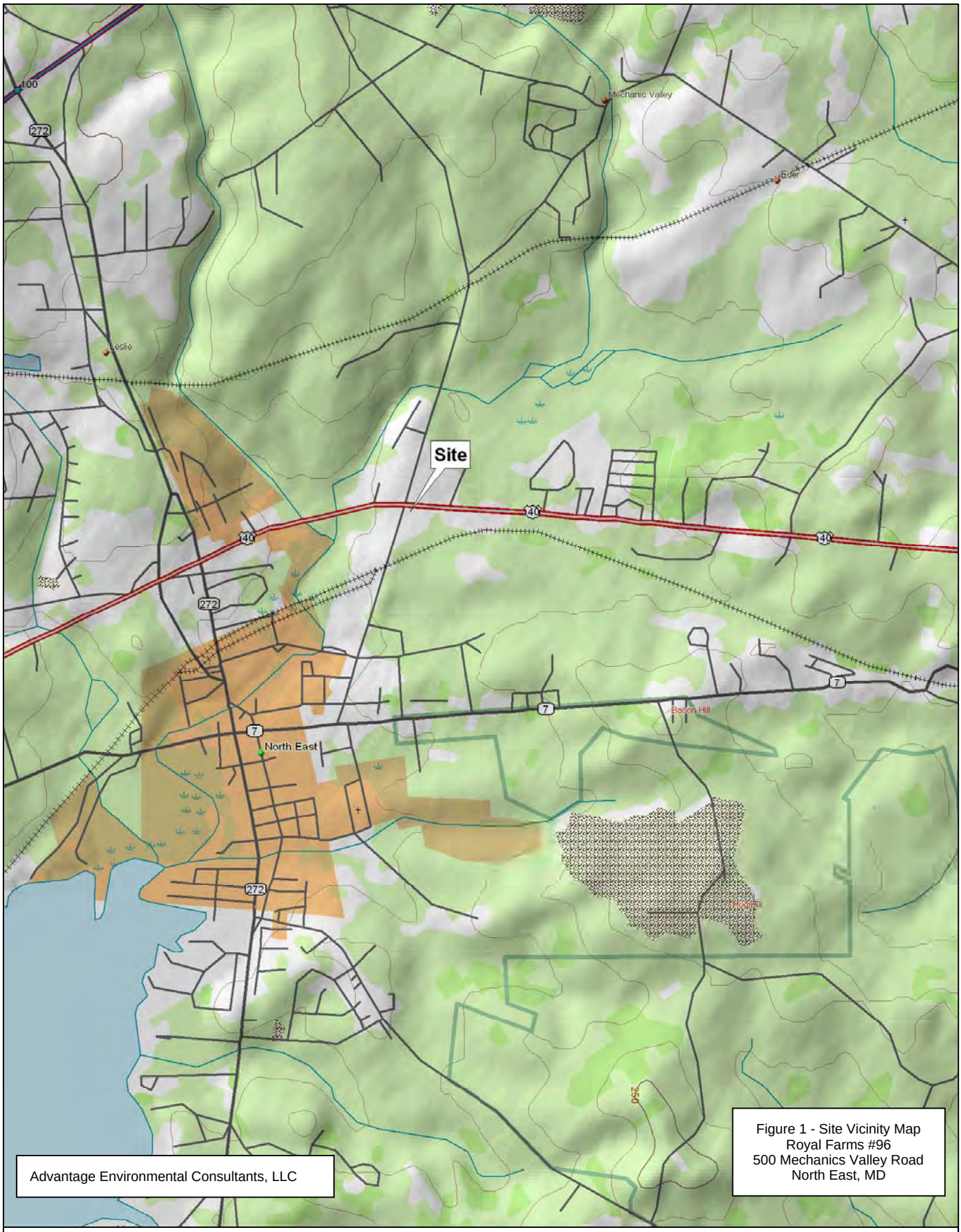
Table 1 Well Gauging Summary
Table 2 Historical Groundwater Analytical Results
Table 3 Onsite Potable Well Treatment System Analytical Results
Table 4 Offsite Potable Well Analytical Results
Table 5: Monitored Natural Attenuation Results
Table 6 VE/GE System Groundwater Extraction Estimates
Table 7 Vapor 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 A



Advantage Environmental Consultants, LLC

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

DeLORME

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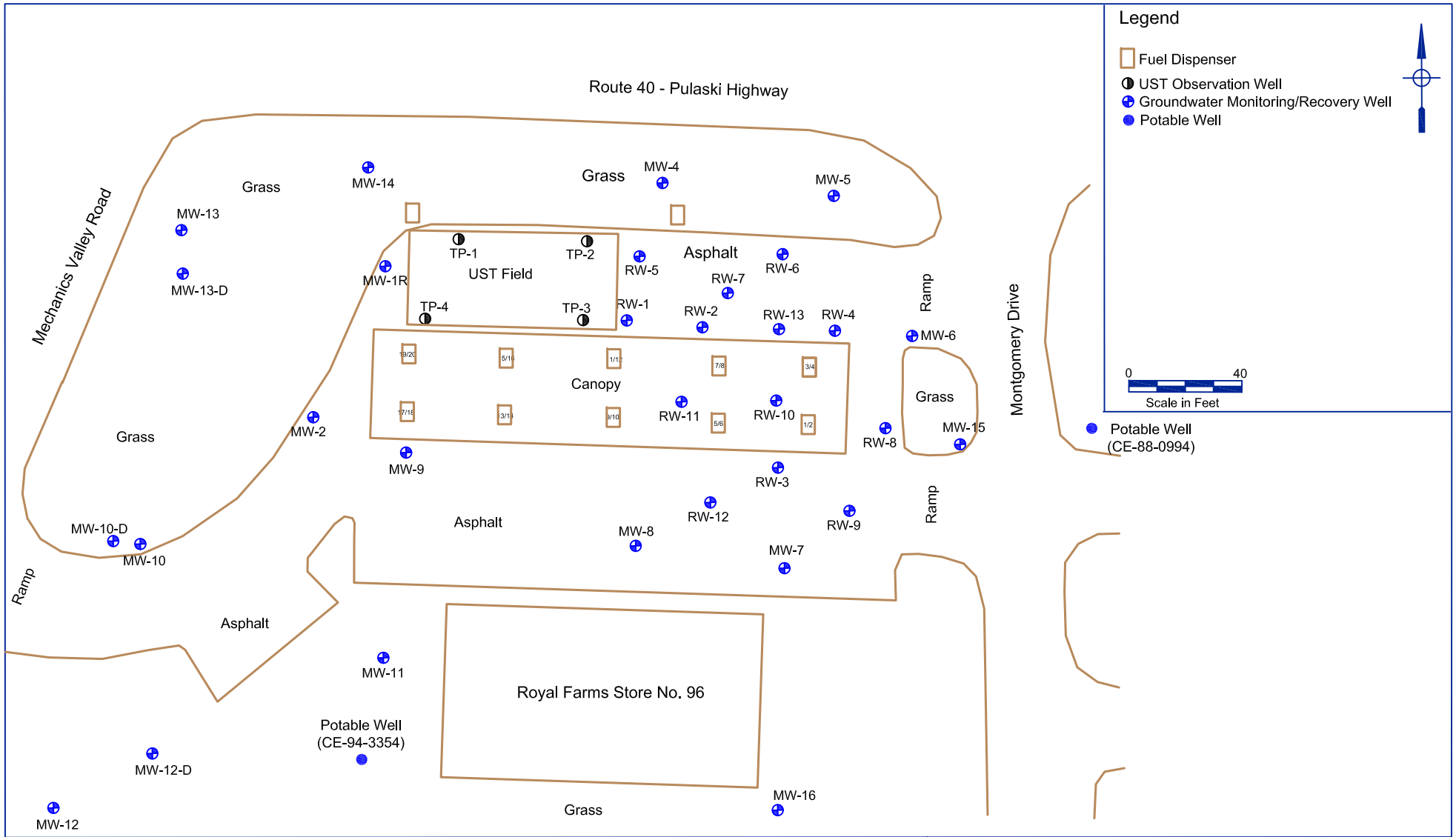
Zoom Level: 12-7 Datum: WGS84

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



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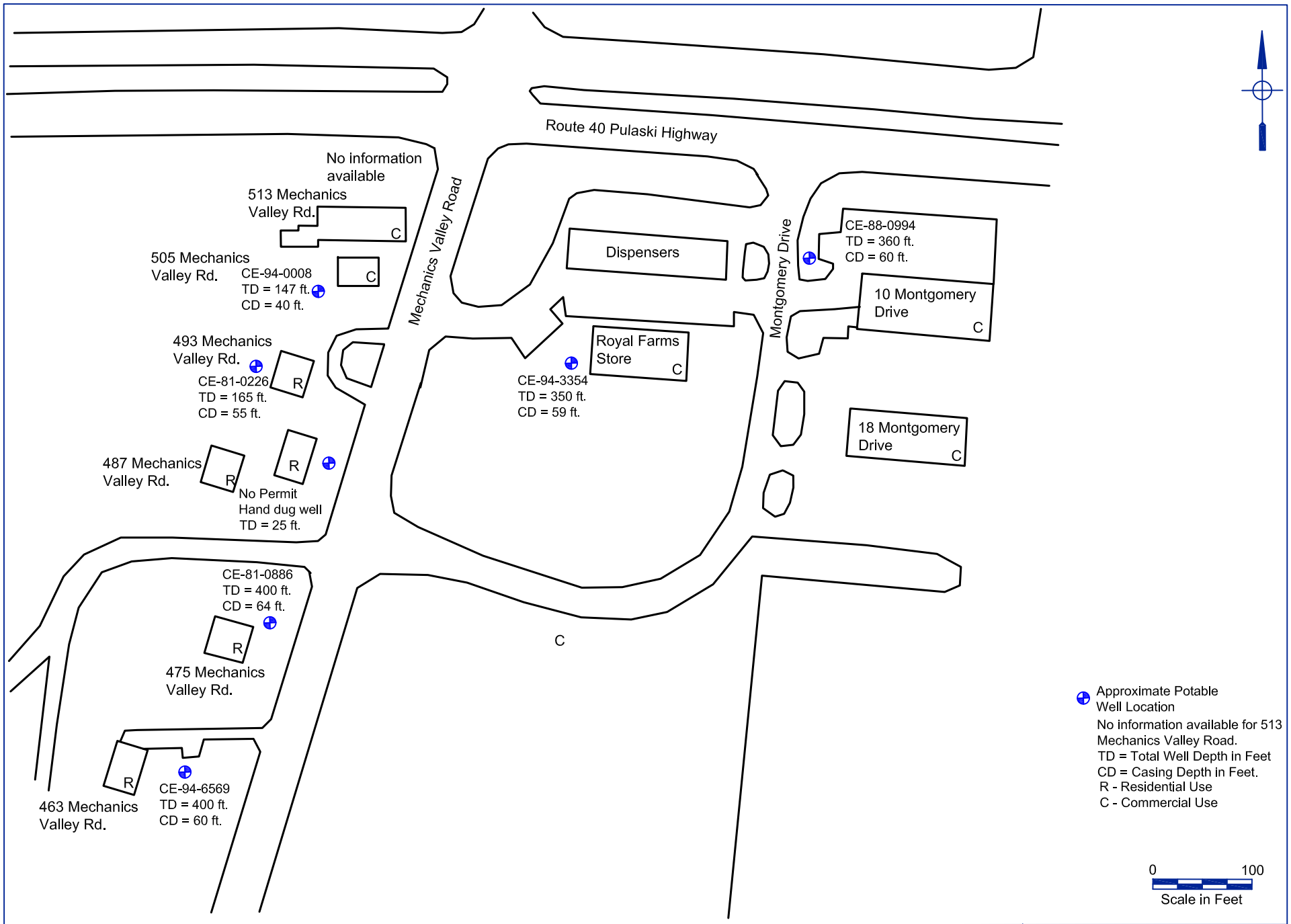
Project No.: 05-056	Drawn by: JDW
Task No.: RF96	Date: 6-20-2013
File: Site Features	Revision No.: 2

Figure 2 - Site Features Map
Royal Farms No. 96
500 Mechanics Valley Road
North East, MD



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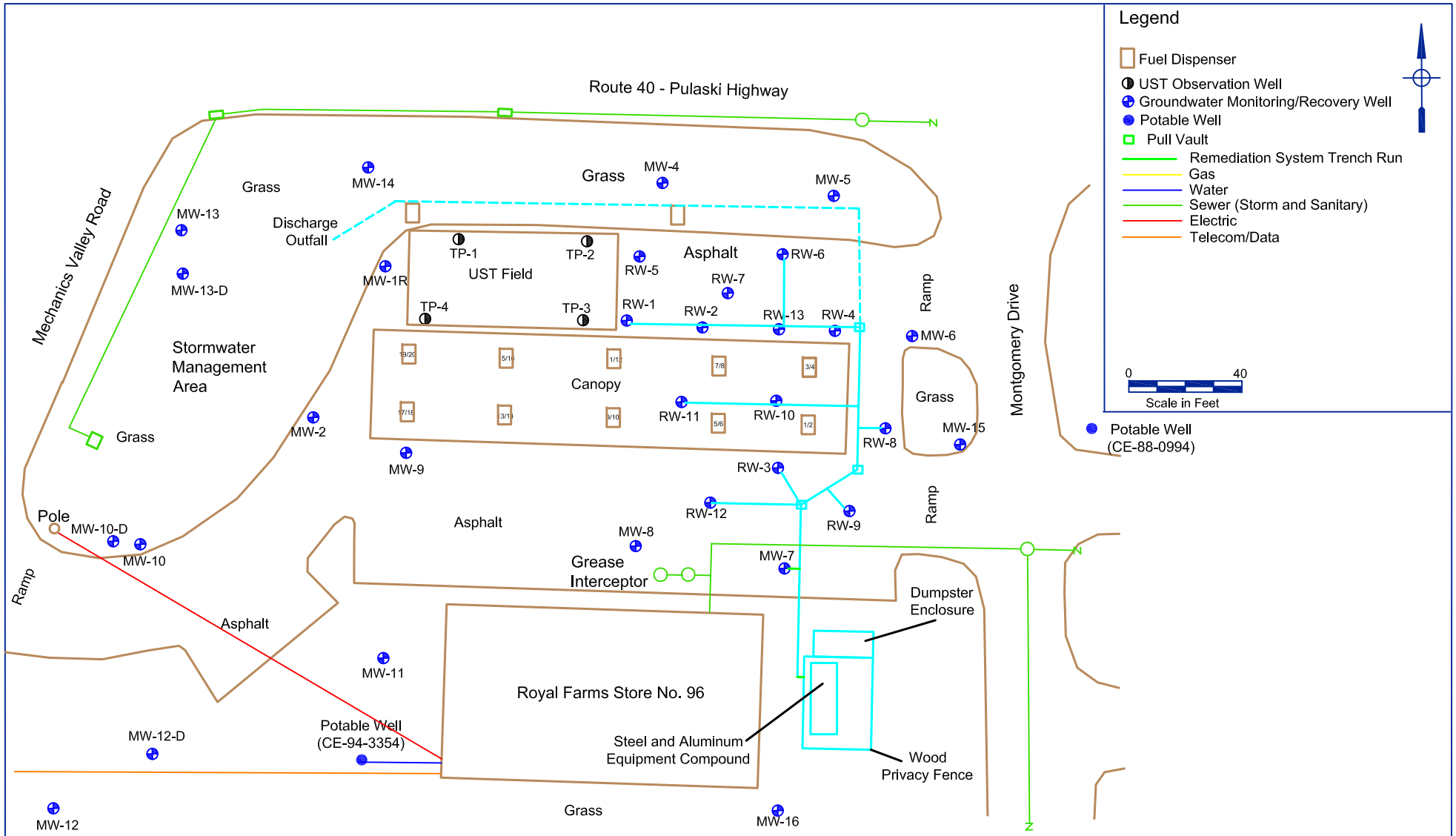
Project No.: 05-056	Drawn by: JSS
Task No.: RF96	Date: 6-20-2013
File: Site Area	Revision No.: 2

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



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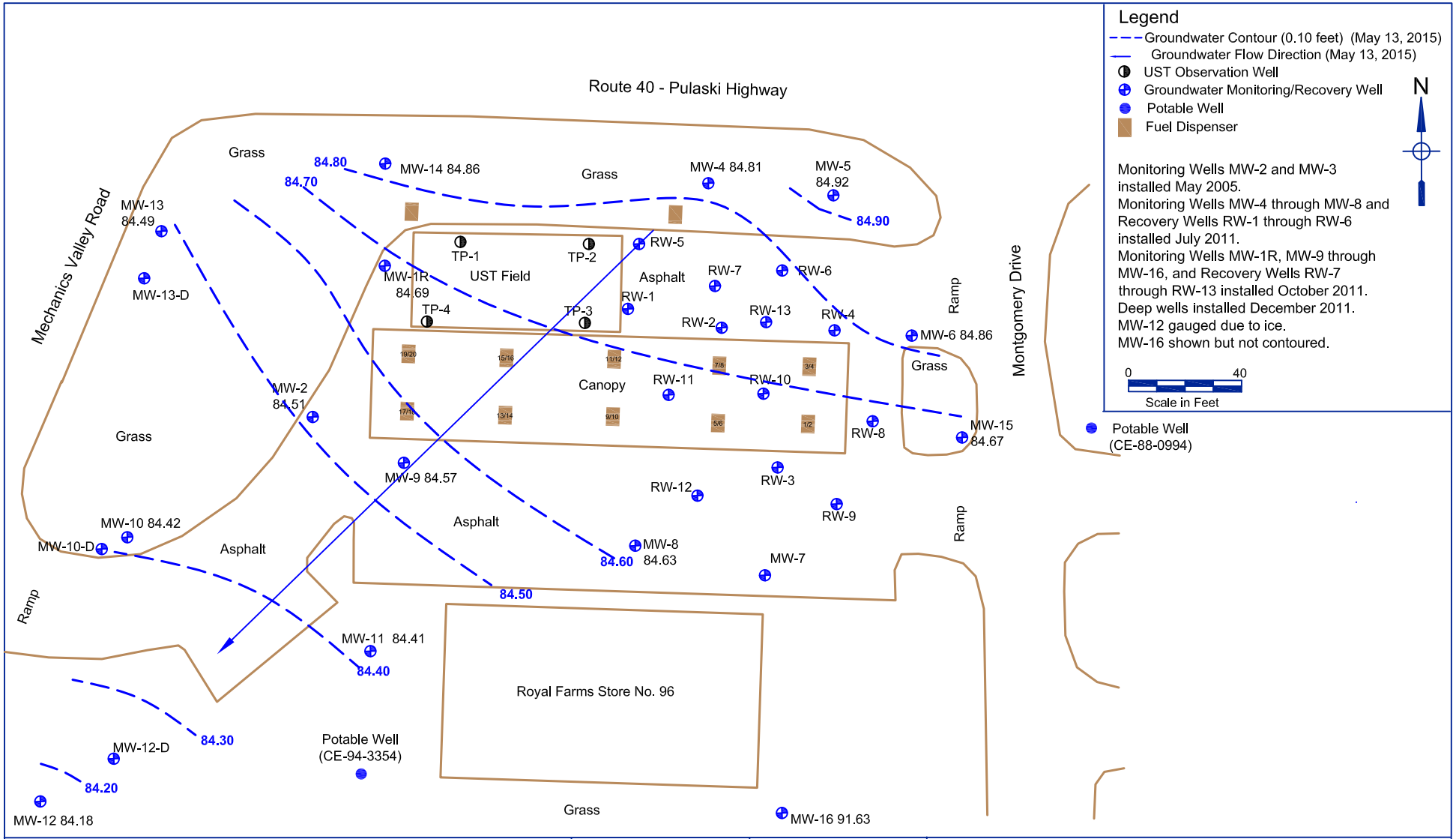
Task No.: RF96	Date: 6-20-2013
File: Site Features	Revision No.: 2

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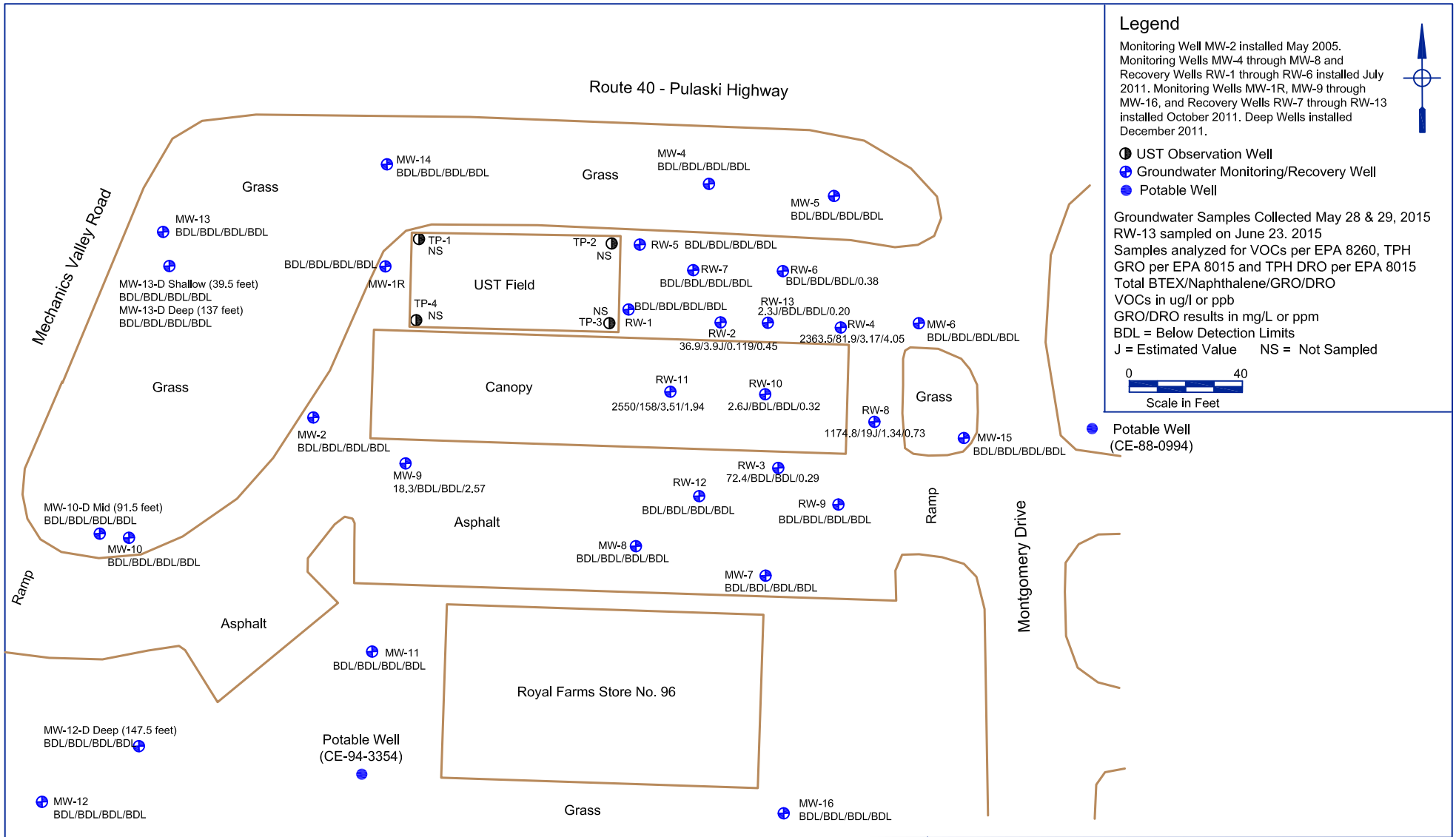
Task No.: RF96	Date: July 2015
File: Site Features	Revision No.: 5

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



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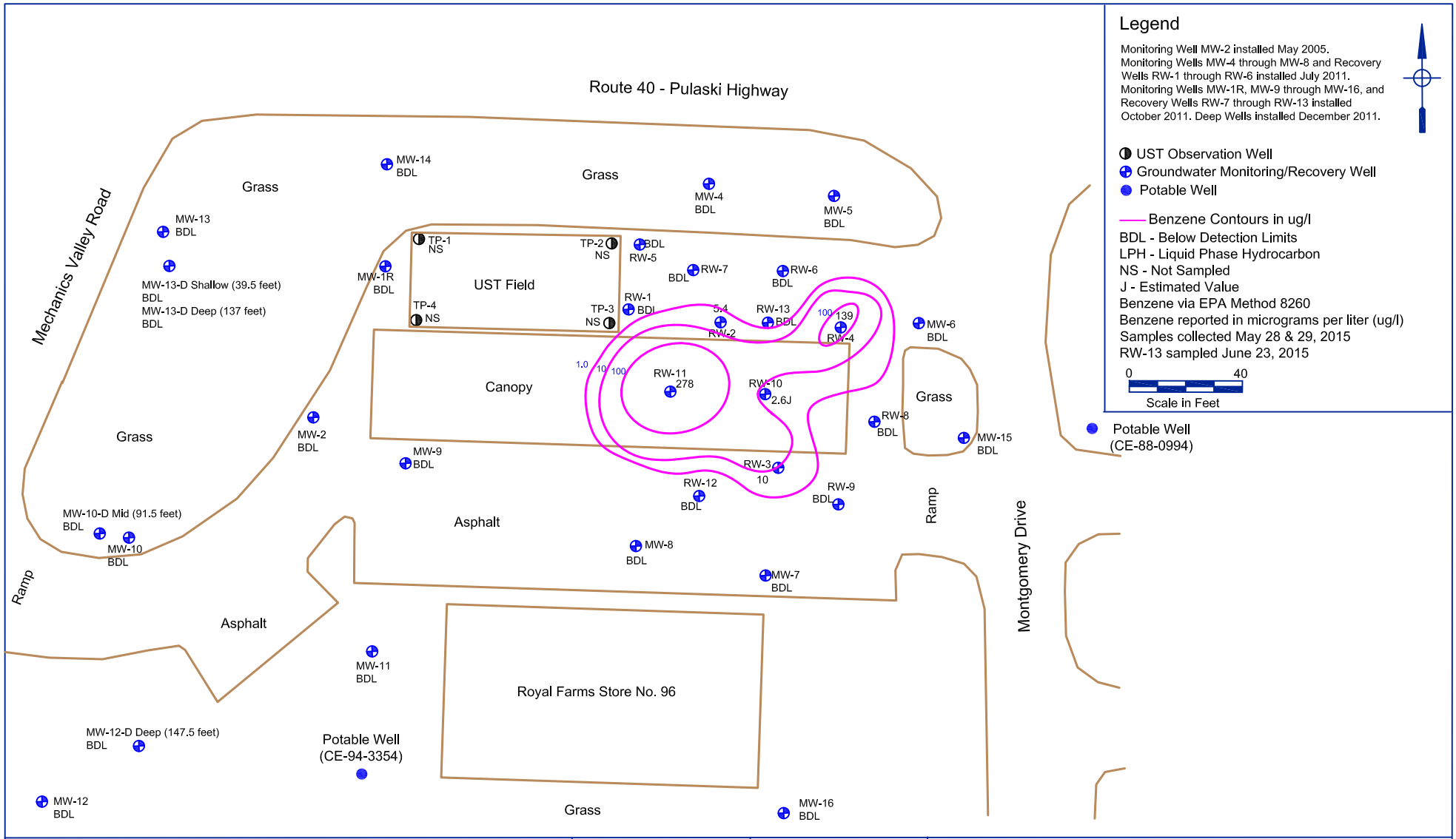
Task No.: RF96	Date: July 2015
File: Site Features	Revision No.: 4

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



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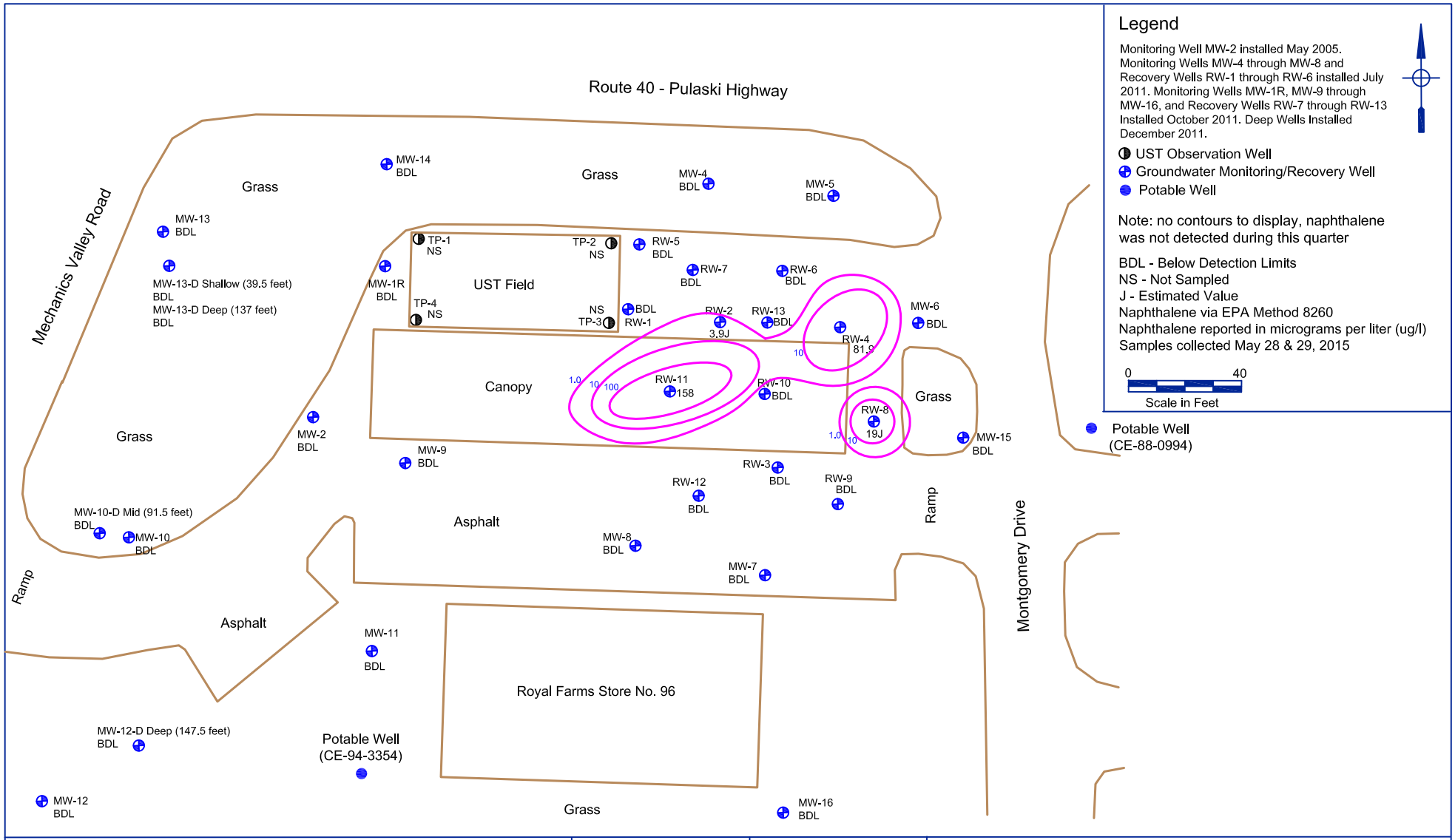
File: Site Features	Revision No.: 4

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



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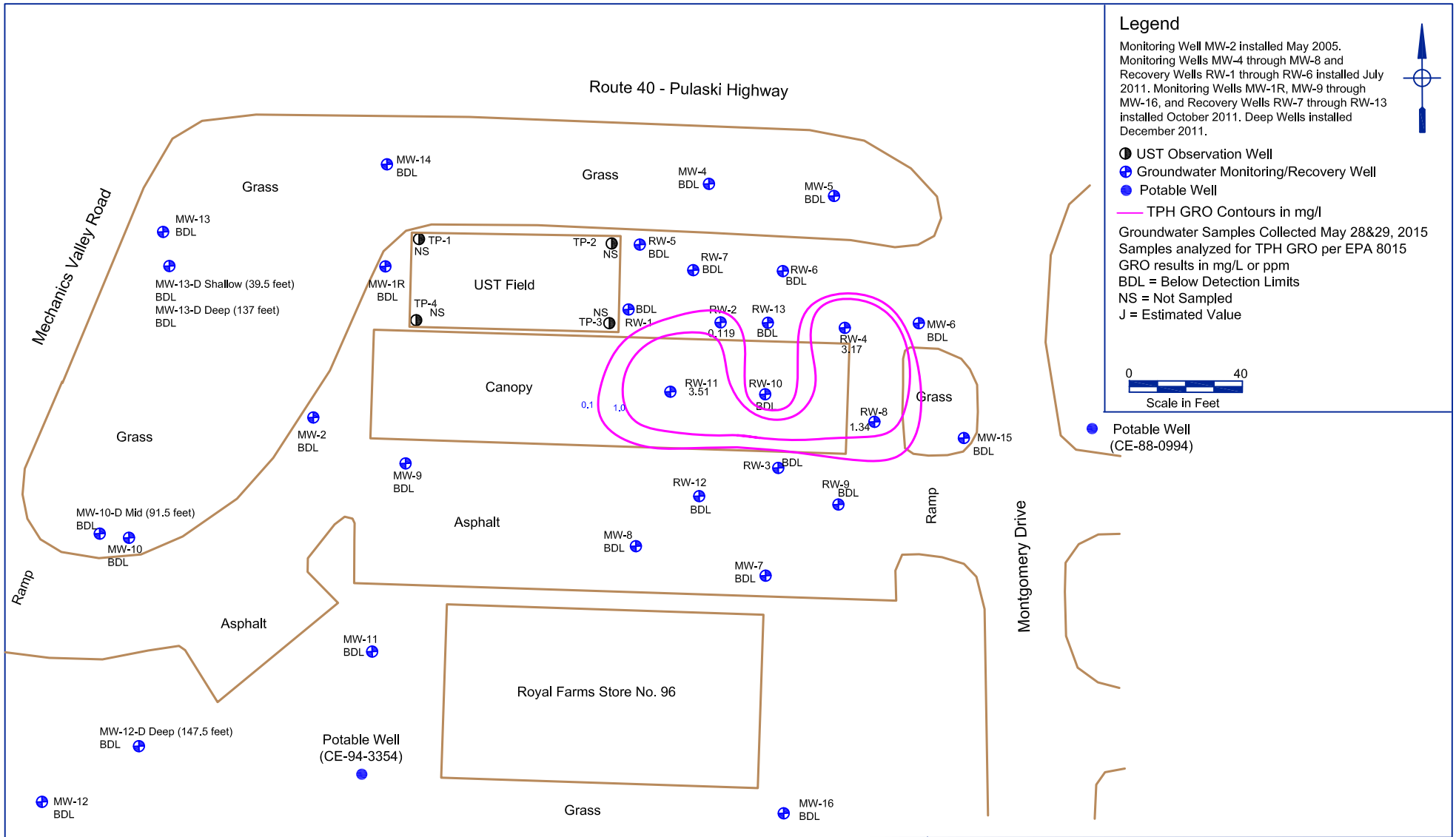
Task No.: RF96	Date: July 2015
File: Site Features	Revision No.: 4

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



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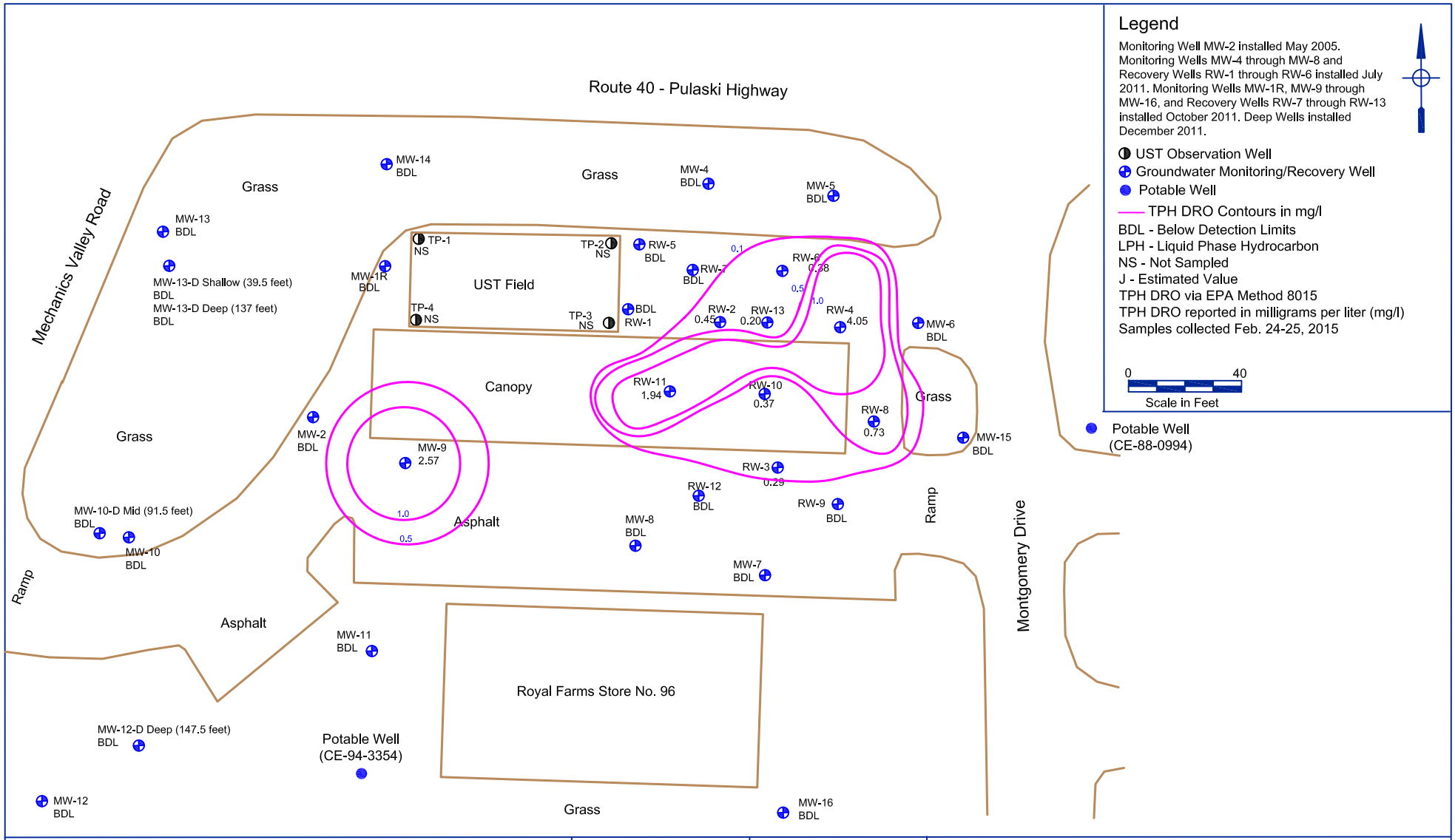
Project No.: 05-056	Drawn by: JDW
Task No.: RF96	Date: July 2015
File: Site Features	Revision No.: 4

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: July 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		
	5/13/2015	10.05	ND	94.74	84.69	NA	NA	NA		
	5/28/2015	9.89	ND	94.74	84.85	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

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
	12/24/2012	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
	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		
	5/13/2015	11.35	ND	95.86	84.51	NA	NA	NA		
	5/28/2015	11.50	ND	95.86	84.36	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

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
	1/15/2013	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
	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		
	5/13/2015	12.06	ND	96.87	84.81	NA	NA	NA		0.0
	5/28/2015	11.82	ND	96.87	85.05	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		

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	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
	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		
	5/13/2015	13.47	ND	98.39	84.92	NA	NA	NA		0.0
	5/28/2015	13.29	ND	98.39	85.10	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		

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
	2/27/2013	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		
	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		
	5/13/2015	14.05	ND	98.91	84.86	NA	NA	NA		1.2
	5/28/2015	13.92	ND	98.91	84.99	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		
	5/29/2015	14.92	ND	97.75	82.83	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

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	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		
	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		
	5/13/2015	13.18	ND	97.81	84.63	NA	NA	NA		1.4
	5/28/2015	13.18	ND	97.81	84.63	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

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	13.95	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	
	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	
	5/13/2015	12.16	ND	96.73	84.57	NA	NA	NA		
	5/28/2015	12.06	ND	96.73	84.67	NA	NA	NA		
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		

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	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	
	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		
	5/13/2015	10.53	ND	94.95	84.42	NA	NA	NA		
	5/28/2015	10.51	ND	94.95	84.44	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		

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	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		
	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		
	5/13/2015	14.28	ND	98.69	84.41	NA	NA	NA		
	5/28/2015	14.29	ND	98.69	84.40	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		

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
	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		
	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	
	5/13/2015	12.57	ND	96.75	84.18	NA	NA	NA		
	5/28/2015	12.68	ND	96.75	84.07	NA	NA	NA		
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		

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
	9/10/2013	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		
	2/25/2015	7.80	ND	91.72	83.92	NA	NA	NA		
	5/13/2015	7.23	ND	91.72	84.49	NA	NA	NA		
	5/28/2015	7.22	ND	91.72	84.50	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		

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
	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		
	5/13/2015	9.21	ND	94.07	84.86	NA	NA	NA		
	5/28/2015	9.09	ND	94.07	84.98	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
	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		

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
	1/13/2014	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		
	5/13/2015	15.10	ND	99.77	84.67	NA	NA	NA		4.1
	5/28/2015	15.17	ND	99.77	84.60	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		
	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		

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
	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		
	5/13/2015	7.10	ND	98.73	91.63	NA	NA	NA		
	5/28/2015	7.40	ND	98.73	91.33	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		
	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		

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
	8/14/2014	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		
	5/13/2015	13.40	ND	94.05	80.65	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		
	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		

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	36.05	ND	96.25	60.20	NA	NA	NA		
	5/13/2015	35.62	ND	96.25	60.63	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		
	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		
	5/13/2015	25.39	ND	91.85	66.46	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

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
	1/15/2013	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		
	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		
	5/13/2015	10.44	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

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
	2/22/2013	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		
	5/13/2015	11.36	ND	NM	NA	NA	NA	NA		
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		

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	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		
	5/13/2015	12.10	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
	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		

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	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		
	5/13/2015	11.25	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		
	1/7/2015	13.85	ND	95.92	82.07	NA	NA	NA		
	5/29/2015	11.90	ND	95.92	84.02	NA	NA	NA		
	6/29/2015	10.20	ND	95.92	85.72	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.	

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
	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		
	5/29/2015	13.85	ND	96.21	82.36	NA	NA	NA		
	6/29/2015	10.80	ND	96.21	85.41	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		
	5/29/2015	14.04	ND	97.59	83.55	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		
	5/29/2015	15.29	ND	97.38	82.09	NA	NA	NA		
	6/29/2015	11.22	ND	97.38	86.16	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

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
	3/7/2013	15.85	ND	96.21	80.36	NA	NA	NA		8.0
	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		
	5/13/2015	11.42	ND	96.21	84.79	NA	NA	NA		2.0
	5/29/2015	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		
	5/29/2015	13.90	ND	96.78	82.88	NA	NA	NA		
	6/29/2015	11.26	ND	96.78	85.52	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		

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
	1/29/2013	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
	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		
	5/13/2015	11.58	ND	96.60	85.02	NA	NA	NA		>5.0
	5/29/2015	12.10	ND	96.60	84.50	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		
	5/29/2015	15.22	ND	97.98	82.76	NA	NA	NA		
	6/29/2015	11.23	ND	97.98	86.75	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-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		
	5/29/2015	13.89	ND	97.25	83.36	NA	NA	NA		
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		
	5/29/2015	14.95	ND	96.98	82.03	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		
	5/29/2015	14.00	ND	96.29	82.29	NA	NA	NA		
	6/29/2015	10.85	ND	96.29	85.44	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.	

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
	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		
	5/29/2015	15.22	ND	97.98	82.76	NA	NA	NA		
	6/29/2015	11.23	ND	97.98	86.75	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		
	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		
	5/13/2015	13.11	ND	97.52	84.41	NA	NA	NA		1.3
	6/23/2015	12.28	ND	97.52	85.24	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

* - 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
	5/28/2015	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**
	5/28/2015	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-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
	5/28/2015	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**
	5/28/2015	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-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

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
	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**
	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**
	5/28/2015	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-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
	5/28/2015	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**
	5/28/2015	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-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**
	5/28/2015	0.001	0.001	3.8	14.5	18.3	0.001	0.001	0.001	0.001	0.001	0.001	183	0.001	0.001	**2.57**
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**
	5/28/2015	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-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

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
	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
	5/28/2015	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
	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
	5/28/2015	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
	5/28/2015	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**
	5/28/2015	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-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
	5/28/2015	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

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
	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**
	5/28/2015	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-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
(Depth: 27 feet)	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
(Depth: 91.5 feet)	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
	5/29/2015	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	0.001
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
(Depth: 187.5 feet)	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
	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**
(Depth: 46 feet)	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
(Depth: 72.5 feet)	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
(Depth: 97 feet)	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**
(Depth: 147.5 feet)	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
	5/29/2015	0.001	0.001	0.001	0.001	0.001	11.8	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
(Depth: 39 feet)	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
	5/29/2015	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
(Depth: 137 feet)	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
	5/29/2015	0.001	0.001	0.001	0.001	0.001	6.9	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**

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
	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**
	5/29/2015	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-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
	5/29/2015	**5.4**	5.0J	0.001	31.5	36.9	0.001	**3.9**	0.001	0.001	0.001	0.001	0.001	0.001	**0.119**	**0.45**
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
	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
	5/29/2015	10	26.6	3.5	32.3	72.4	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**
	5/29/2015	**139**	930	3.5	1291	2363.5	0.001	**81.9**	0.001	0.001	0.001	0.001	0.001	0.001	**3.17**	**4.05**
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**
	5/29/2015	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	**0.38**
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

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
	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
	5/29/2015	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
	5/29/2015	0.001	48.2	97.6	1029	1174.8	0.001	19	0.001	0.001	0.001	0.001	0.001	0.001	1.34	0.76
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
	5/29/2015	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-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
	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
	5/29/2015	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	0.37
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
	5/29/2015	278	638	467	1167	2550.0	0.001	158	0.001	0.001	0.001	0.001	0.001	0.001	3.51	1.94
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
	5/29/2015	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

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	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
	6/23/2015	0.001	2.3	0.001	0.001	2.3	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	**0.20**
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**
	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**

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
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
	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

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
	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
	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
463 Mechanics Valley Road	PW-463	6/10/2015	BDL	BDL	BDL	BDL	BDL	1.27	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
475 Mechanics Valley Road	PW-475	6/10/2015	BDL	BDL	BDL	BDL	BDL	3.35	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

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	9/24/2012	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
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
487 Mechanics Valley Road	PW-487	6/10/2015	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
493 Mechanics Valley Road	PW-493	6/23/2015	BDL	BDL	BDL	BDL	10.2	8.22	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

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	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
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-In	6/10/2015	BDL	BDL	BDL	BDL	73.4	**51.2 J**	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-Mid1	6/10/2015	BDL	BDL	BDL	BDL	40.6	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

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	10/19/2011	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
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-Mid2	6/10/2015	NS	NS	NS	NS	NS	NS	NS
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

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-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
505 Mechanics Valley Road	PW-505-Eff	6/10/2015	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
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
513 Mechanics Valley Road	PW-513	6/10/2015	BDL	BDL	BDL	BDL	38.1	**30**	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-10-18	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
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
10 Montgomery Drive	PW-10	6/10/2015	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
	5/28/2015	10.54	9.04	203	BDL	11.8	BDL	2.0	BDL	2.0
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
	5/28/2015	10.67	6.75	255	BDL	77.4	BDL	1.3	BDL	0.4
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
	5/28/2015	8.60	6.25	53	13.4	67.1	BDL	BDL	BDL	2.0
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
	5/28/2015	10.65	7.73	275	0.202	12.6	BDL	BDL	BDL	BDL
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: April 1, 2015 - May 27, 2015
Gasoline Fueling Station – Royal Farms #96
500 Mechanics Valley Rd. North East, MD

TASK	RESULT
Groundwater Extracted for the Period	294,600 gallons
System Average Extraction Rate	3.7 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	0.33 gallons per minute
Average Influent BTEX/TPH GRO Concentration	0.0 / 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: April 1, 2015 - May 27, 2015

TASK	RESULT
Vapor Extracted for the Period	7,812,000 cubic feet
System Average Extraction Rate	387.5 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	35.22 cubic feet per minute
Average Volatile Organic Compound Concentration	1.1 parts per million
Average Manifold Vacuum Pressure	7.3 inches of mercury
Average Vapor Phase Hydrocarbons Recovered for the Period	0.2 pounds per day
Total Vapor Phase Hydrocarbons Recovered for the Period	7.1 pounds / 0.7 gallons
Total Vapor Phase Hydrocarbons Recovered Since VE/GE System Start-up	2,883.2 pounds / 452.4 gallons

Table 8 - Cumulative Hydrocarbon Recovery Estimates

TASK	RESULT
Hydrocarbons Recovered Per Period (April 1 - May 27)	0.7 gallons
Hydrocarbons Recovered Since VE/GE System Start-up	452.4 gallons
Hydrocarbons Recovered Prior to VE/GE System Start-up	205 gallons
Total Cumulative Hydrocarbons Recovered	657.4 gallons

Table 9 - VE/GE System Hydrocarbon Recovery Estimate Worksheet 1
Period: April 1, 2015 - May 27, 2015
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	4,515,473	0.51	5.6	33.7	166.7
1/1/14-3/31/14	87	13.4	210.7	0	351	893,044	5,408,517	0.65	7.1	15.5	193
4/1/14-6/30/14	80	20.4	171.4	0	194	738,432	6,146,949	0.58	6.4	8.8	175
7/1/14-9/30/14	91	4.6	63.00	0	0	815,688	6,962,637	0.57	6.2	12.9	351
10/1/14-12/31/14	84	0	0.80	0	0	551,796	7,514,433	0.41	4.6	8.7	357.3
1/1/15-3/31/15	89	0	0.00	0	0	456,715	7,971,148	0.32	3.6	2.1	196.6
4/1/15-5/27/15	56	0	0.00	0	0	294,600	8,265,748	0.33	3.7	1.3	387

Period: April 1, 2015 - May 27, 2015

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
4/1/15-5/27/15	0	0.00	0.7	0.7	452.4	0.00	0.0	0.0	7.1	0.2	7.1	2906.2

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
4/1/15-5/27/15	0.0	3.7	448.7	452.4	0.0	22.9	2883.2	2906.2

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)
4/8 - 4/15	7	381	3,840,480	6
4/22 - 4/29	7	394	3,971,520	0
5/13 - 5/20	7	229	2,308,320	0.8
	21		7,812,000	
Quarterly Average:		**387.5**		**1.13**

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
4/1/2015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5/13/2015	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	
4/1/2015	0.0	0.0	0.0	0.0	0.0	0.0	100.0
5/13/2015	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
10/1/14 - 12/31/14 (84/92 Days Operational)	RW-1	84	50
	RW-2	84	50
	RW-3	84	50
	RW-4	84	50
	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
4/1/15 - 5/27/15 (56 Days Operational)	RW-1	56	21
	RW-2	56	21
	RW-3	56	21
	RW-4	56	21
	RW-6	56	21
	RW-8	56	21
	RW-9	56	21
	RW-10	56	21
	RW-11	56	21
	RW-12	56	21
	MW-7	56	21

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)
5/29/2015	RW-1	35.22	0.0	0.000
	RW-2	35.22	0.0	0.000
	RW-3	35.22	0.0	0.000
	RW-4	35.22	0.0	0.000
	RW-6	35.22	0.0	0.000
	RW-8	35.22	0.0	0.000
	RW-9	35.22	0.0	0.000
	RW-10	35.22	0.0	0.000
	RW-11	35.22	0.0	0.000
	RW-12	35.22	0.0	0.000
	MW-7	35.22	0.0	0.000

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 (5/29/2015)	Dissolved Phase Recovery (gallons per period)
5/29/2015	RW-1	0.32	0.0	0.000
	RW-2	0.32	36.9	0.012
	RW-3	0.32	72.4	0.023
	RW-4	0.32	2,363.5	0.764
	RW-6	0.32	0.0	0.000
	RW-8	0.32	1,174.8	0.380
	RW-9	0.32	2.4	0.001
	RW-10	0.32	0.0	0.000
	RW-11	0.32	2,550.0	0.824
	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)

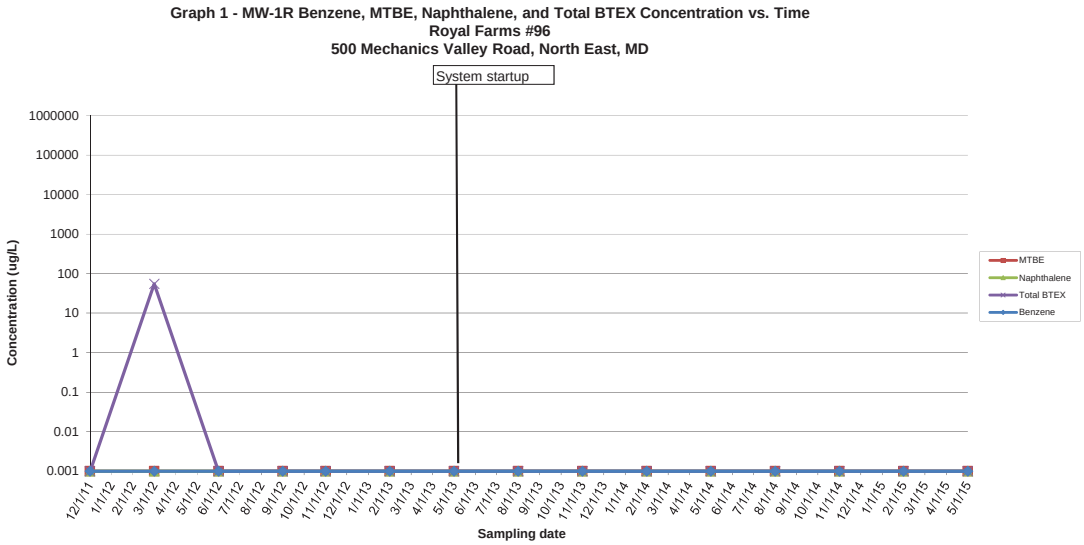
Well ID	1st Qtr. 2013	2nd Qtr. 2013	3rd Qtr. 2013	4th Qtr. 2013	1st Qtr. 2014	2nd Qtr. 2014	3rd Qtr. 2014	4th Qtr. 2014	1st Qtr. 2015
RW-1	0.026	0.255	0.026	0.076	0.000	0.000	0.041	0.000	0.011
RW-2	3.420	1.105	0.047	0.196	0.000	0.014	0.202	0.000	0.003
RW-3	0.358	2.611	0.005	0.022	0.000	0.000	0.000	0.015	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

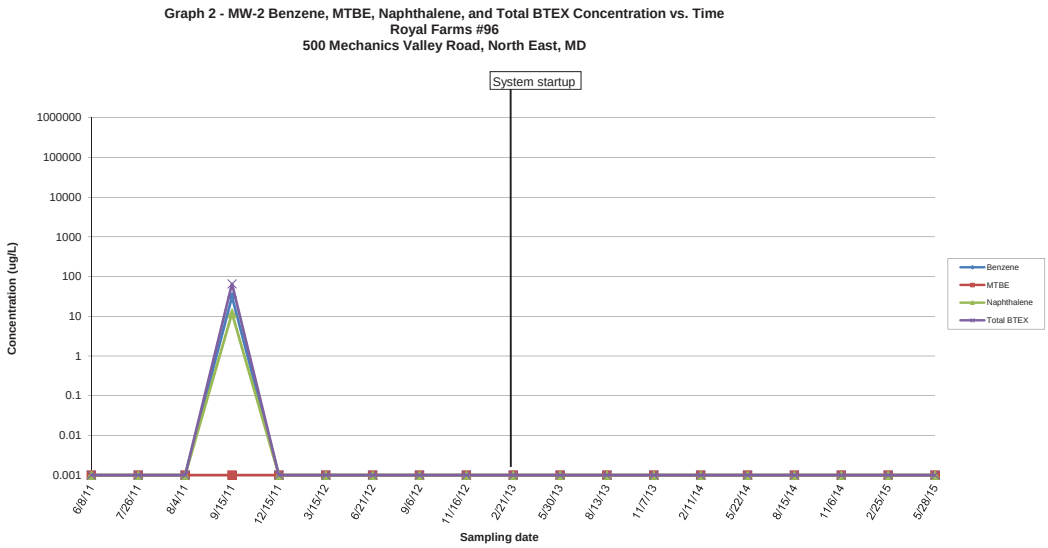
Table 18 - GE Specific Extraction Point Worksheet

DISSOLVED PHASE RECOVERY PER WELL (GALLONS)

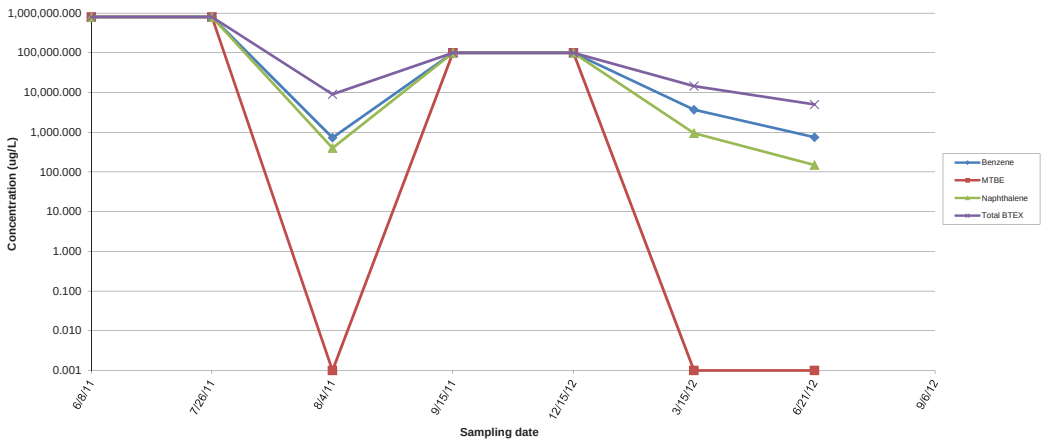
Well ID	1st Qtr. 2013	2nd Qtr. 2013	3rd Qtr. 2013	4th Qtr. 2013	1st Qtr. 2014	2nd Qtr. 2014	3rd Qtr. 2014	4th Qtr. 2014	1st Qtr. 2015
RW-1	0.000	0.000	0.000	0.000	0.002	0.002	0.000	0.000	0.046
RW-2	0.304	0.000	0.039	0.096	0.059	0.115	0.000	0.000	0.000
RW-3	0.294	0.006	0.000	0.000	0.000	0.000	0.000	0.000	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

Attachment C

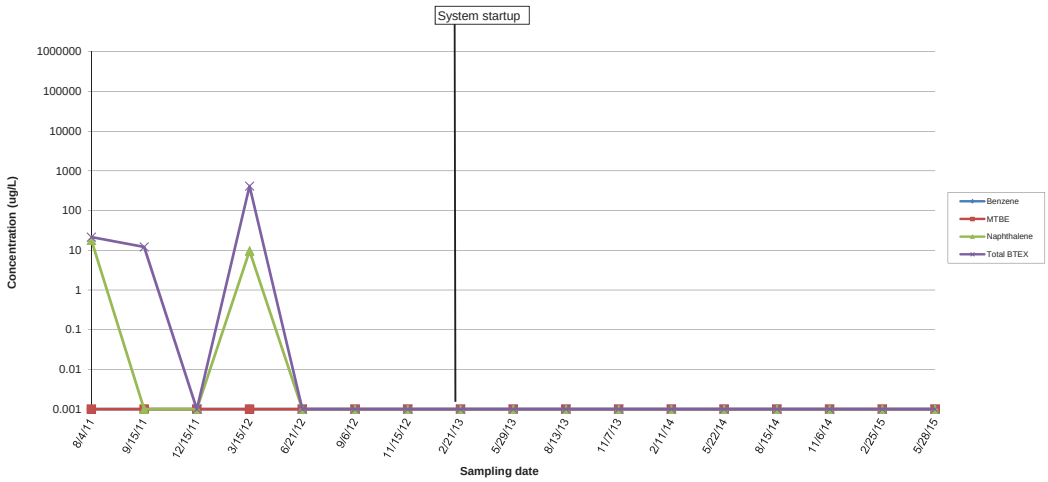

Graph 1 - MW-1R Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
12/1/11
1/1/12
2/1/12
3/1/12
4/1/12
5/1/12
6/1/12
7/1/12
8/1/12
9/1/12
10/1/12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


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
5/28/15
Sampling date
Benzene
MTBE
Naphthalene
Total BTEX

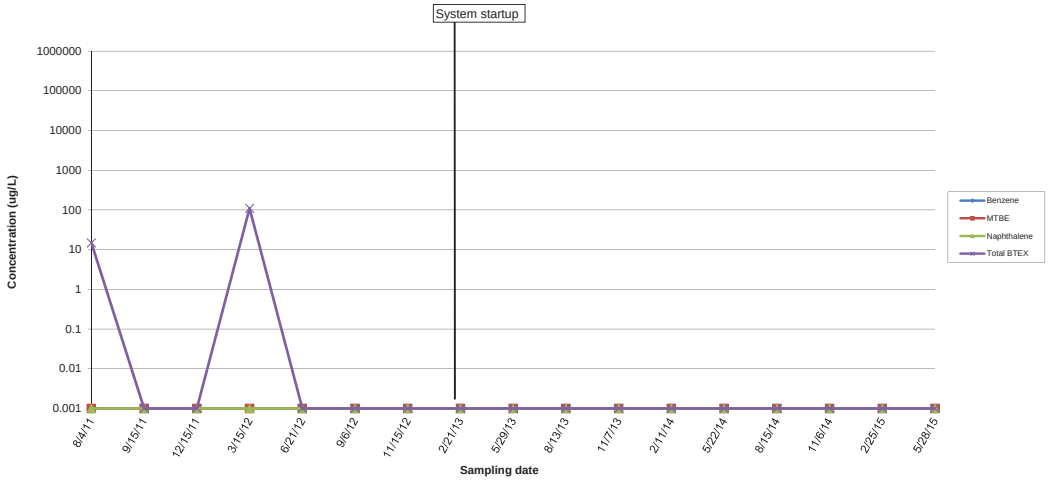
Graph 3 - MW-3 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



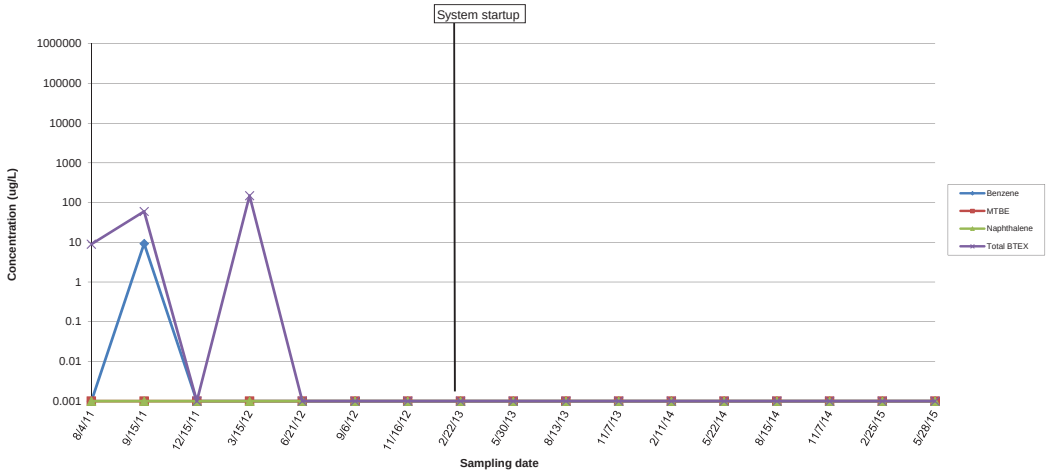
Graph 4 - MW-4 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



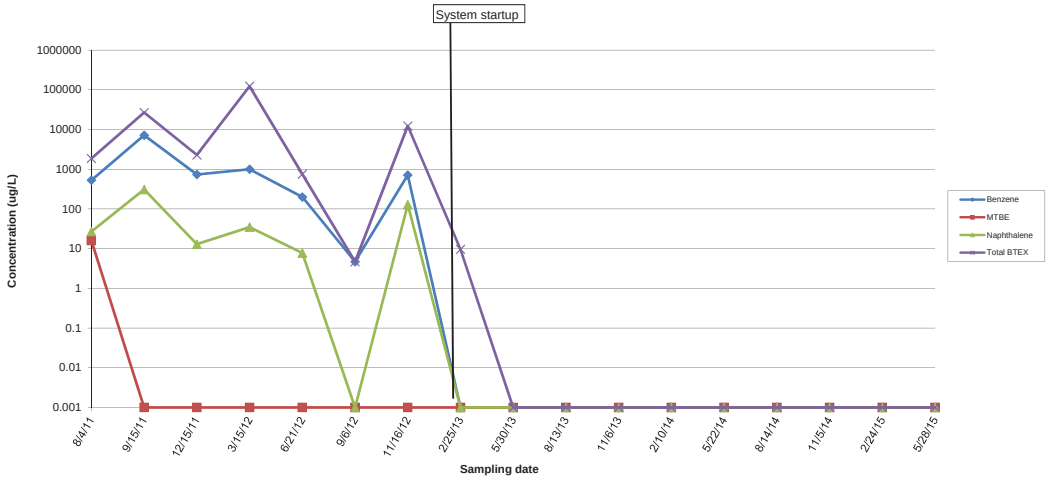
Graph 5 - MW-5 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



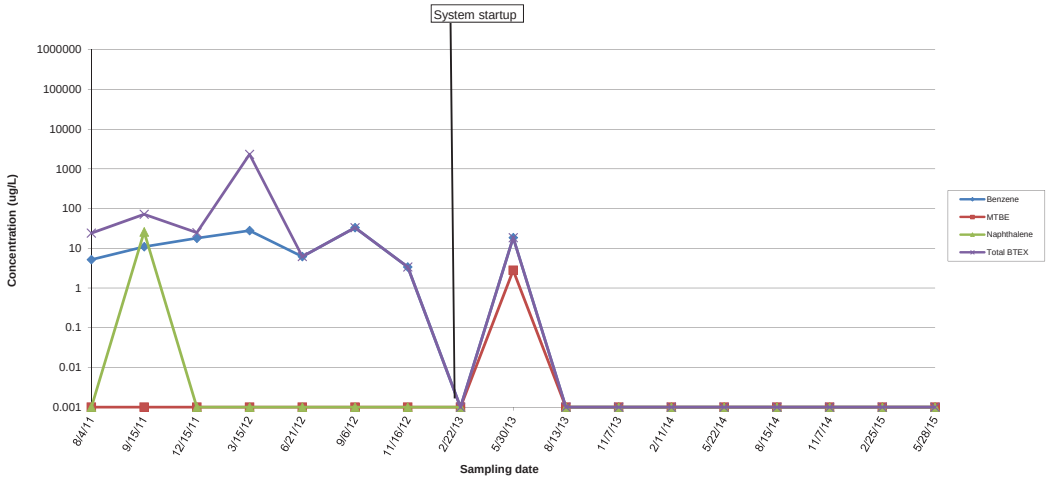
Graph 6 - MW-6 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD

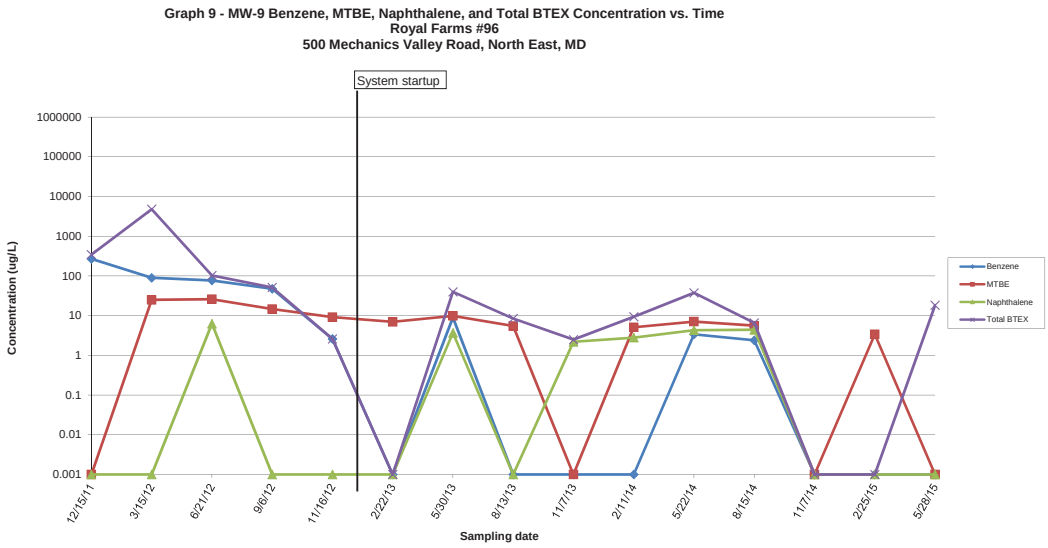


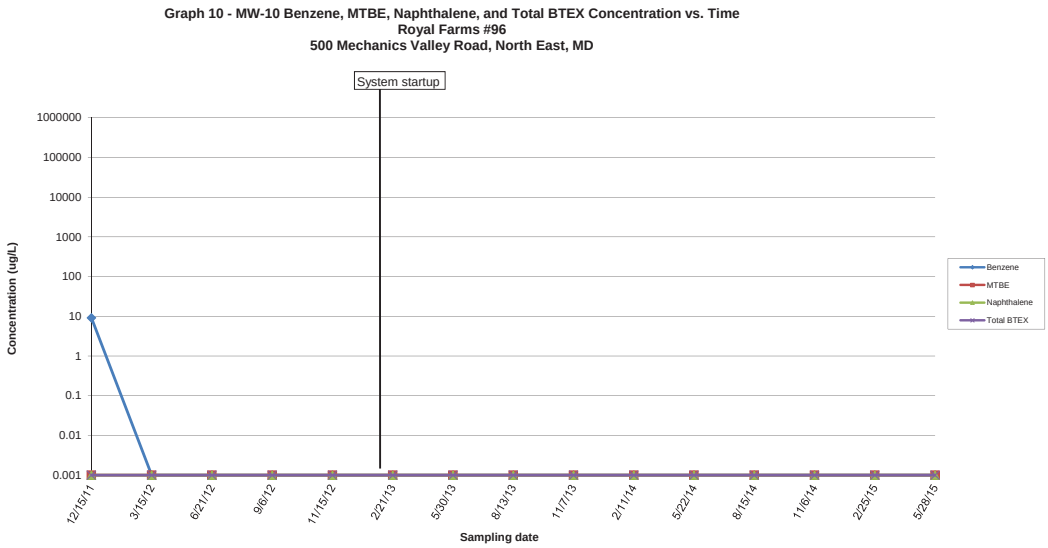
Graph 7 - MW-7 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD

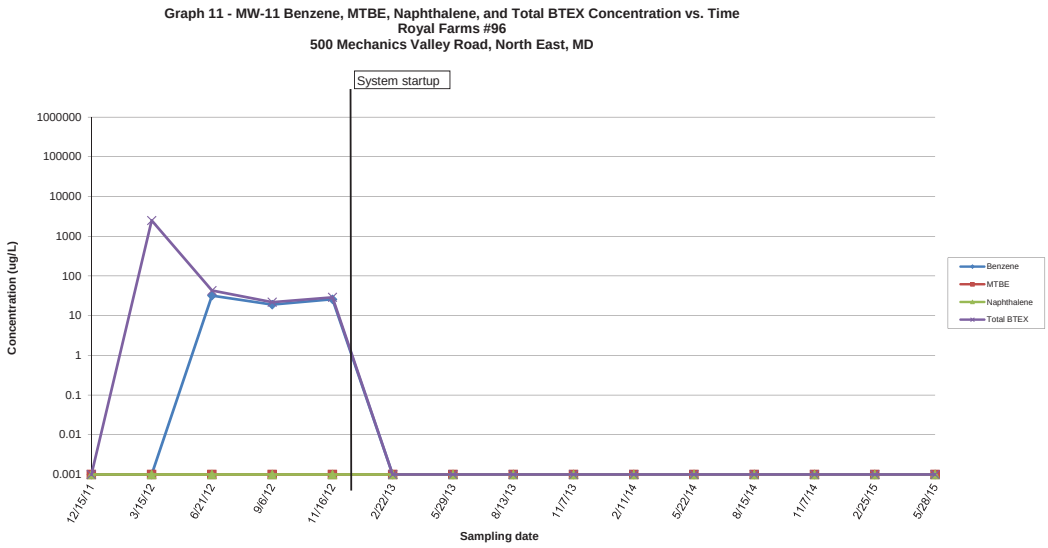


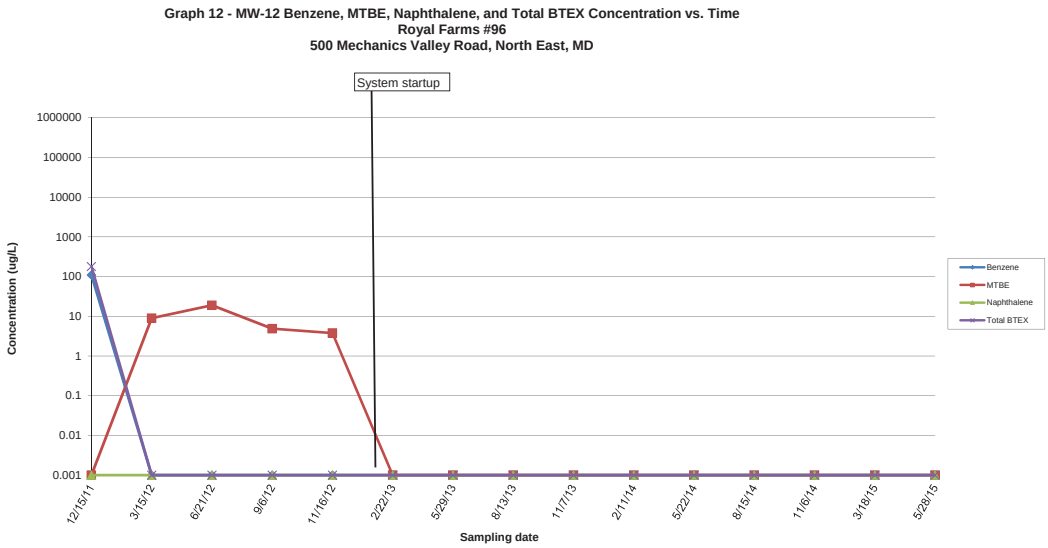
Graph 8 - MW-8 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD

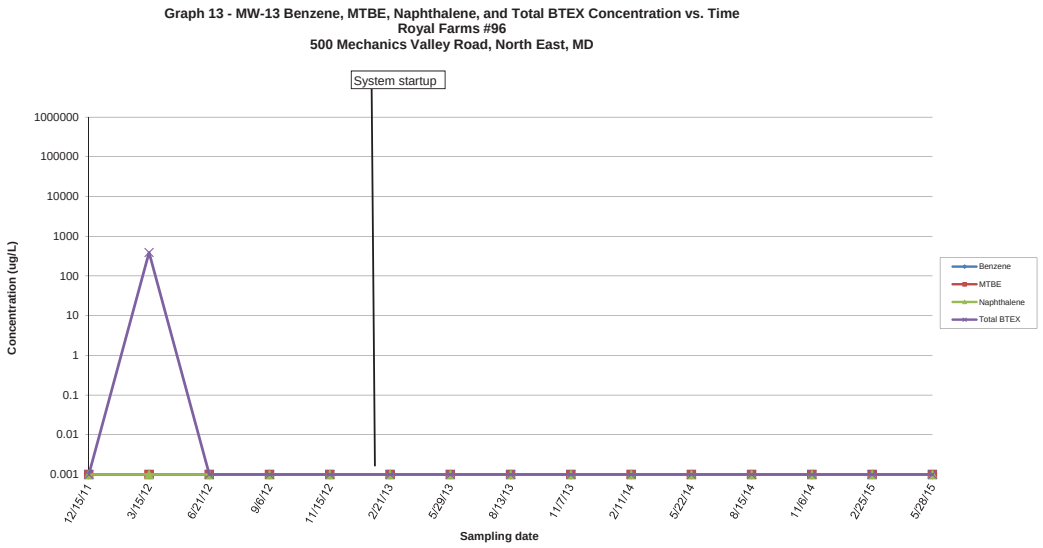


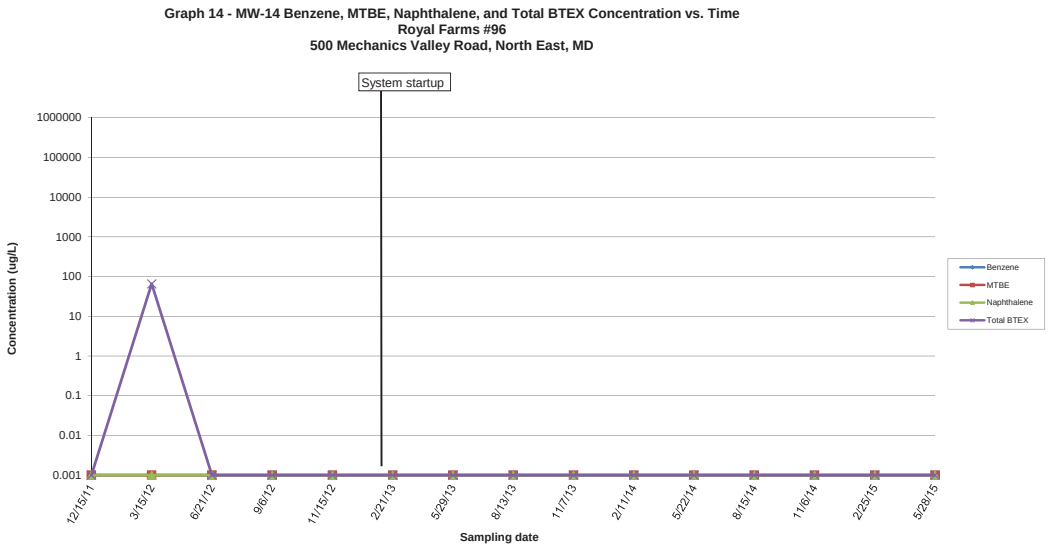

Graph 9 - MW-9 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
12/15/11
3/15/12
6/21/12
9/6/12
11/16/12
2/22/13
5/30/13
8/13/13
11/7/13
2/11/14
5/22/14
8/15/14
11/7/14
2/25/15
5/28/15
Sampling date
Benzene
MTBE
Naphthalene
Total BTEX

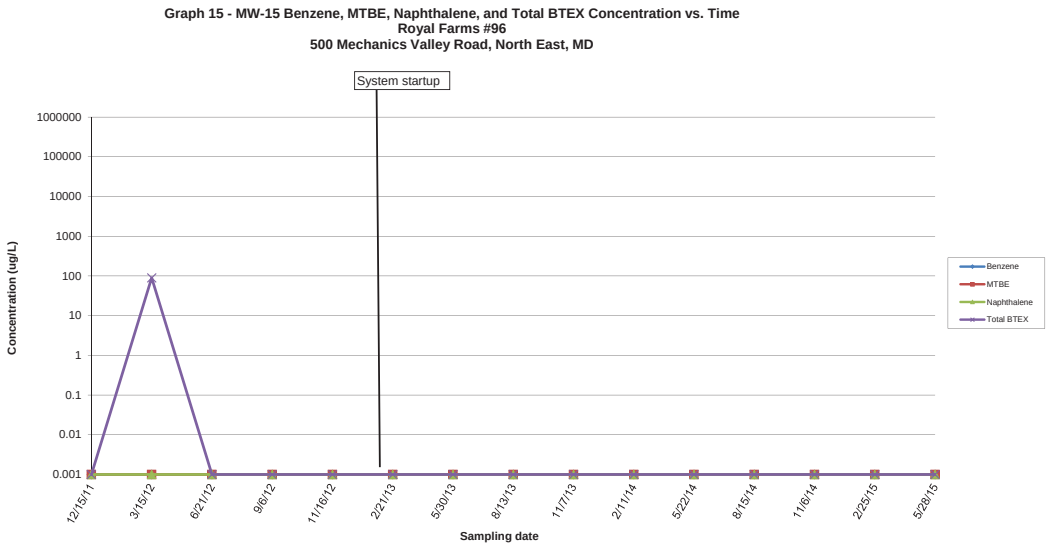

Graph 10 - MW-10 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
12/15/11
3/15/12
6/21/12
9/6/12
11/15/12
2/21/13
5/30/13
8/13/13
11/7/13
2/11/14
5/22/14
8/15/14
11/6/14
2/25/15
5/28/15
Sampling date
Benzene
MTBE
Naphthalene
Total BTEX

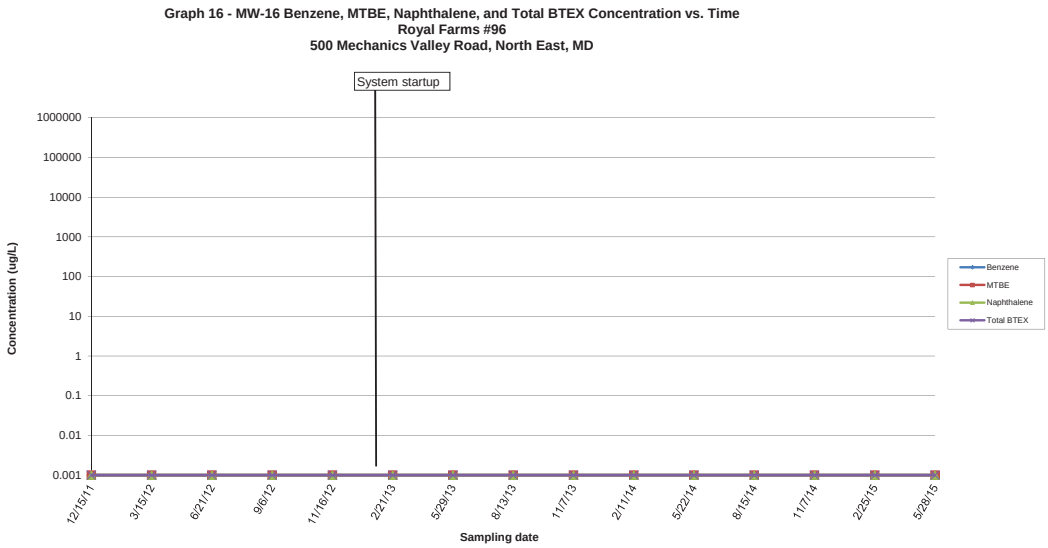

Graph 11 - MW-11 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
12/15/11
3/15/12
6/21/12
9/6/12
11/16/12
2/22/13
5/29/13
8/13/13
11/7/13
2/11/14
5/22/14
8/15/14
11/7/14
2/25/15
5/28/15
Sampling date
Benzene
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
5/28/15
Sampling date
Benzene
MTBE
Naphthalene
Total BTEX

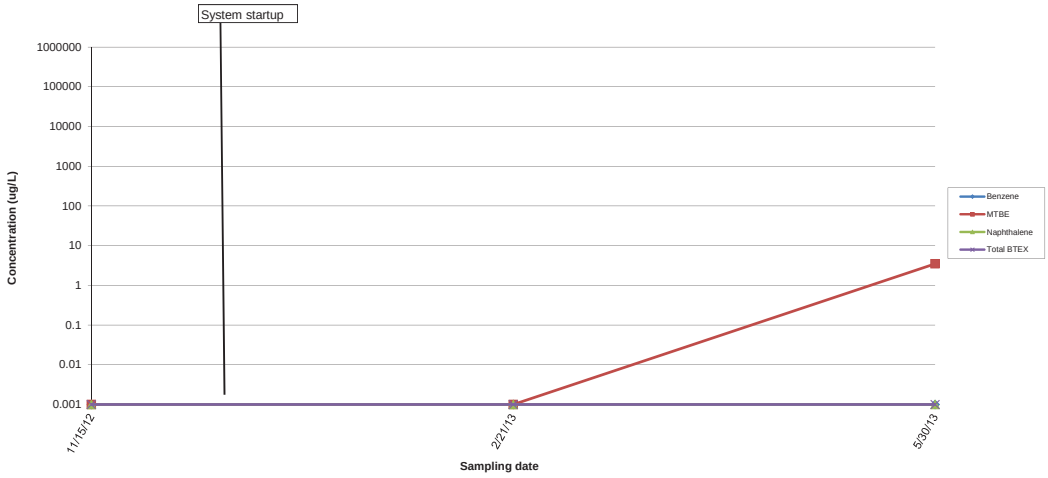

Graph 13 - MW-13 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
12/15/11
3/15/12
6/21/12
9/6/12
11/15/12
2/21/13
5/29/13
8/13/13
11/7/13
2/11/14
5/22/14
8/15/14
11/6/14
2/25/15
5/28/15
Sampling date
Benzene
MTBE
Naphthalene
Total BTEX


Graph 14 - MW-14 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
5/29/13
8/13/13
11/7/13
2/11/14
5/22/14
8/15/14
11/6/14
2/25/15
5/28/15
Sampling date
Benzene
MTBE
Naphthalene
Total BTEX

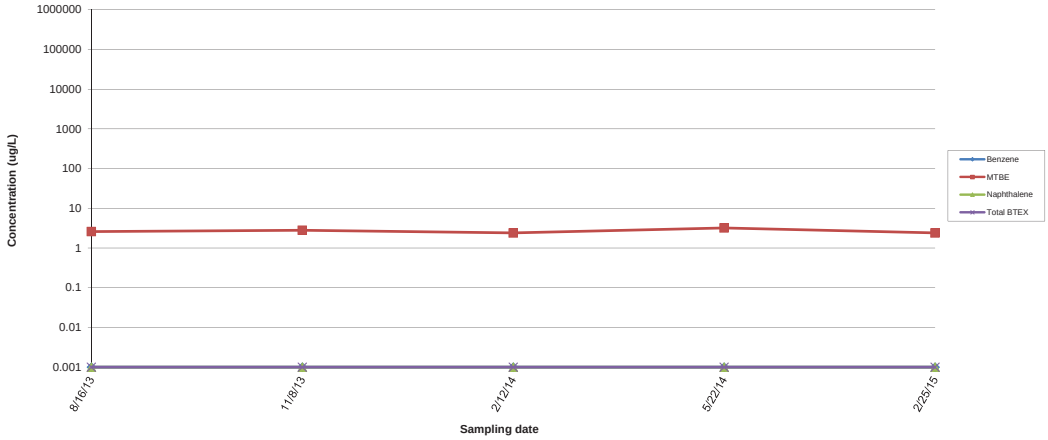

Graph 15 - MW-15 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
12/15/11
3/15/12
6/21/12
9/6/12
11/16/12
2/21/13
5/30/13
8/13/13
11/7/13
2/11/14
5/22/14
8/15/14
11/6/14
2/25/15
5/28/15
Sampling date
Benzene
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
5/28/15
Sampling date
Benzene
MTBE
Naphthalene
Total BTEX

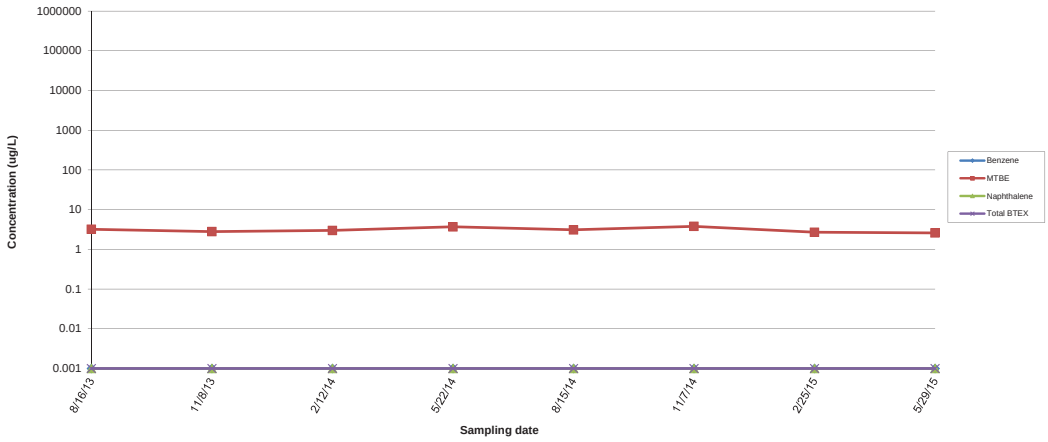
Graph 17 - MW-10D Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



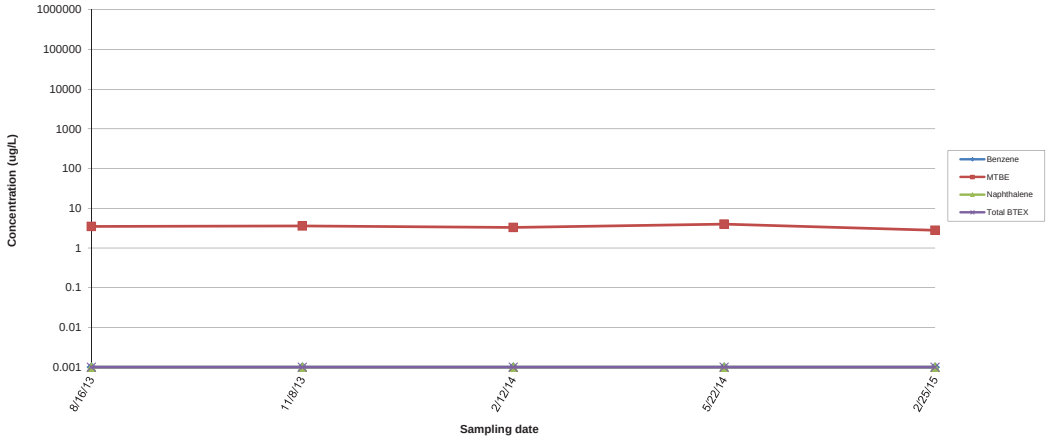
Graph 18 - MW-10D Shallow Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



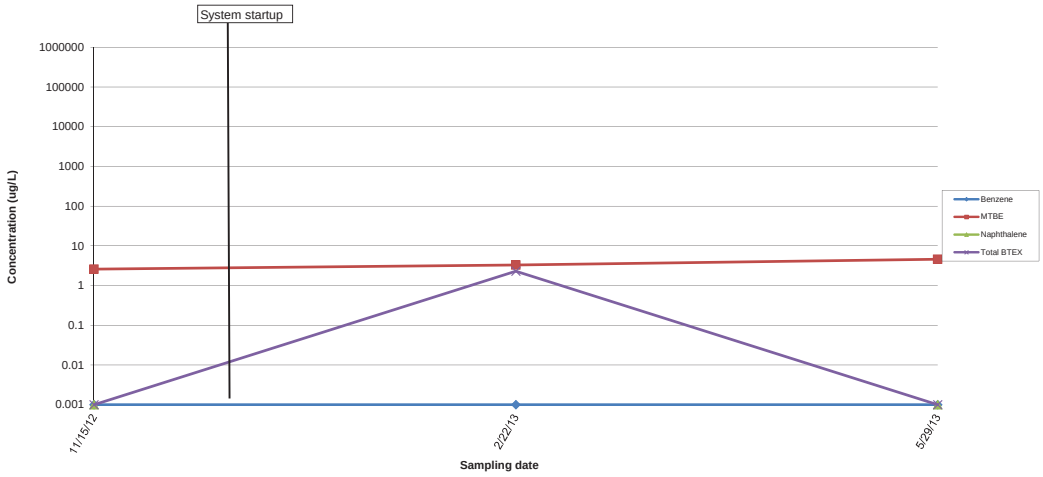
Graph 19 - MW-10D Middle Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



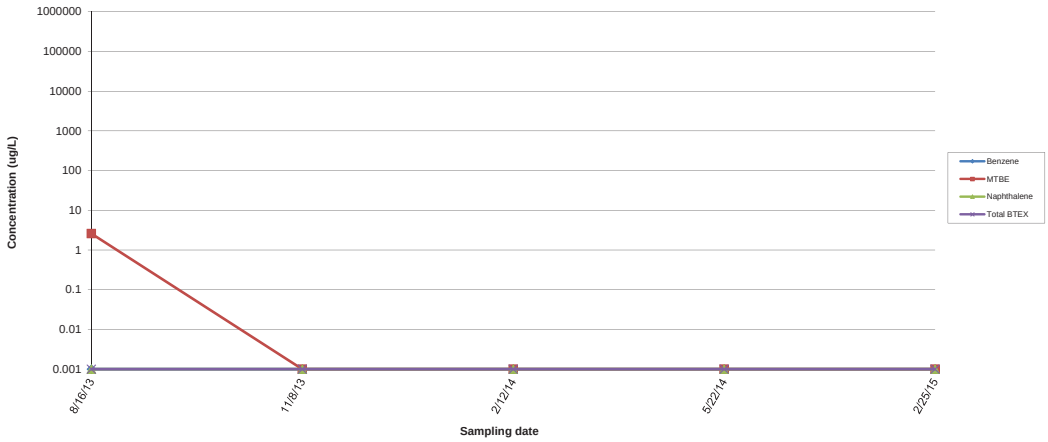
Graph 20 - MW-10D Deep Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



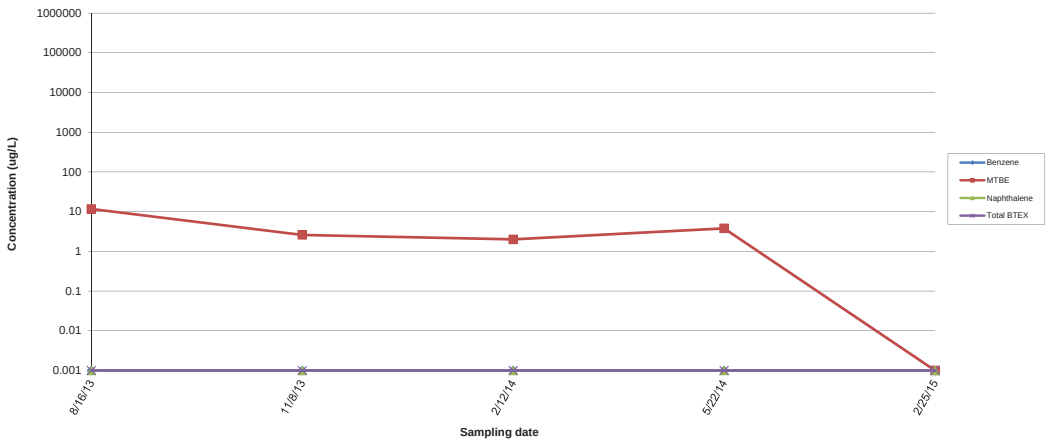
Graph 21 - MW-12D Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 7Mechanics Valley Road, North East, MD



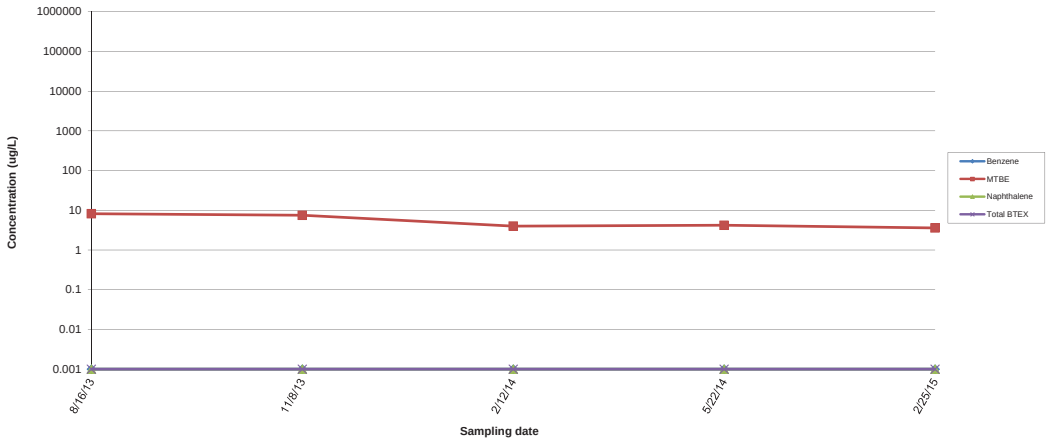
Graph 22 - MW-12D Shallow Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



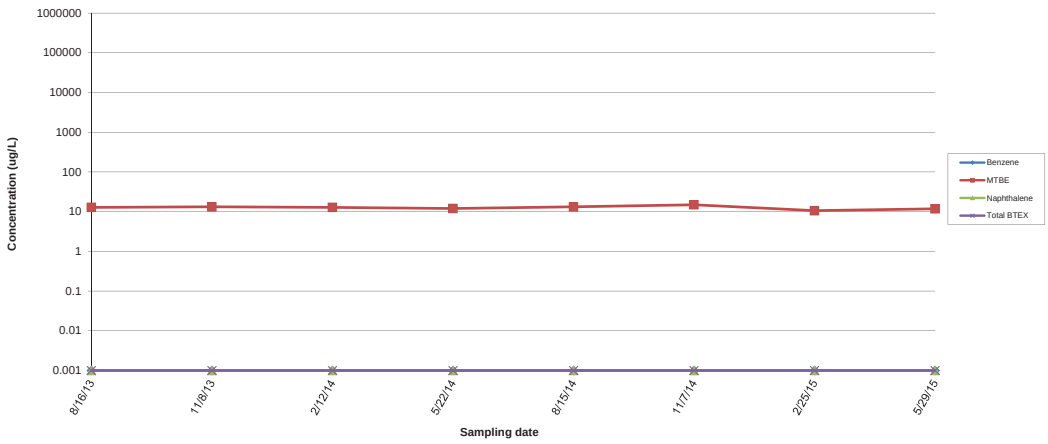
Graph 23 - MW-12D Mid-1 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



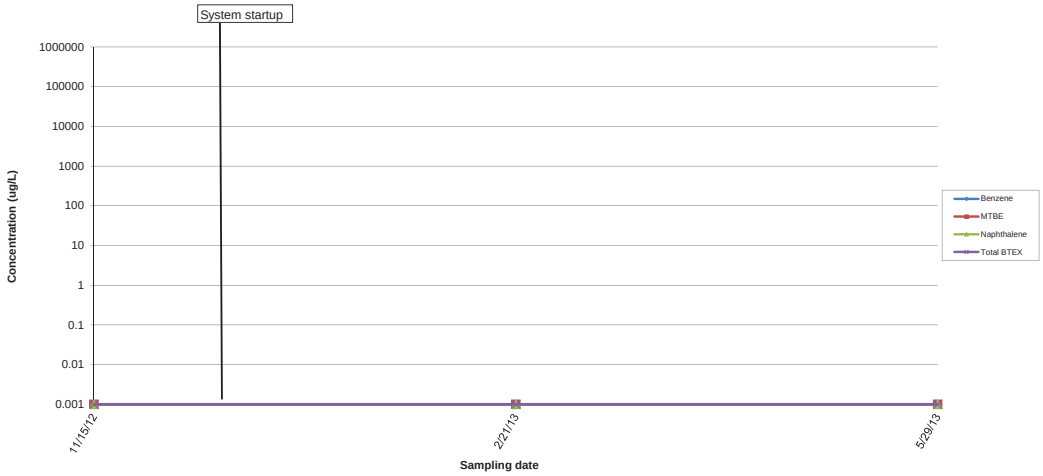
Graph 24 - MW-12D Mid-2 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



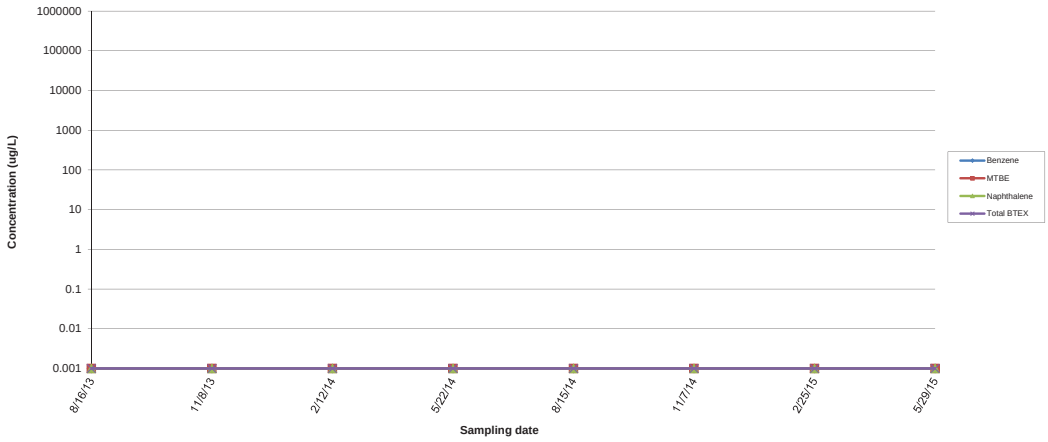
Graph 25 - MW-12D Deep Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



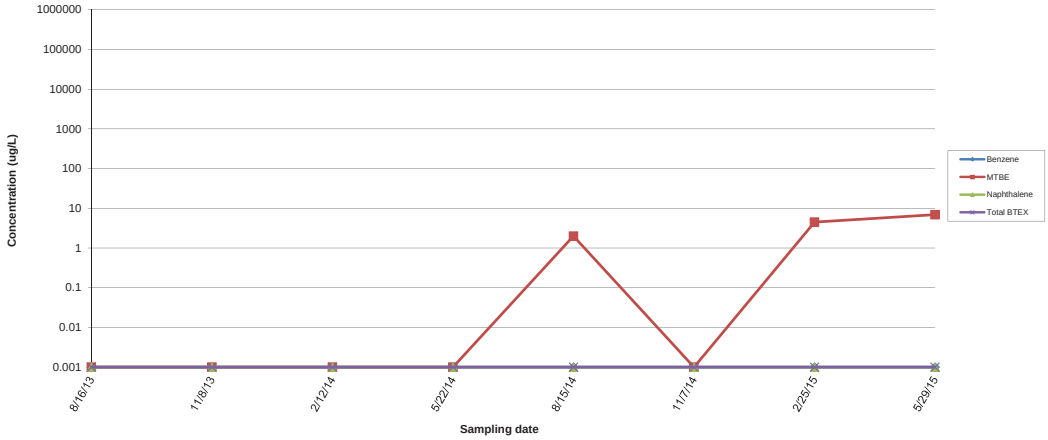
Graph 26 - MW-13 D Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 7Mechanics Valley Road, North East, MD

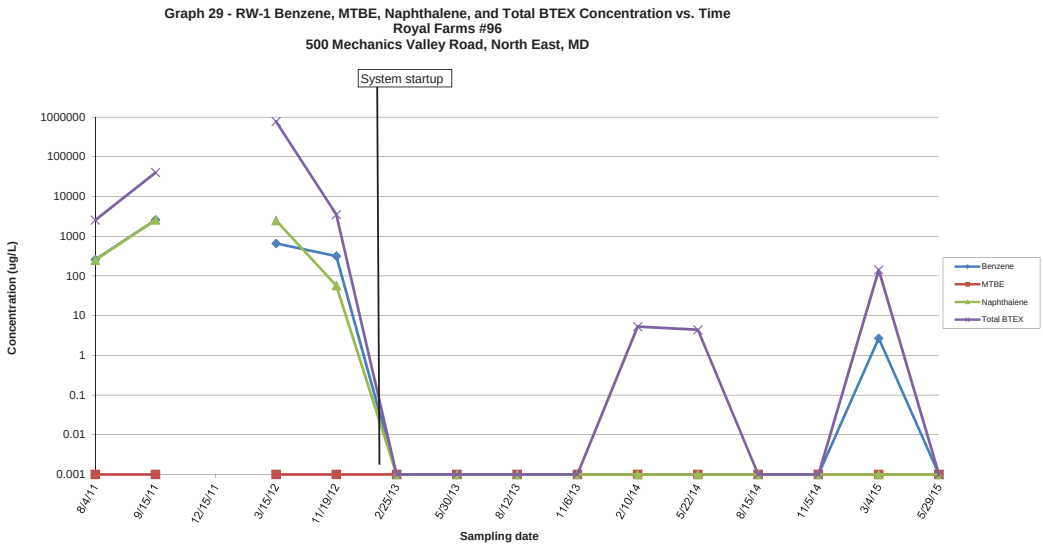


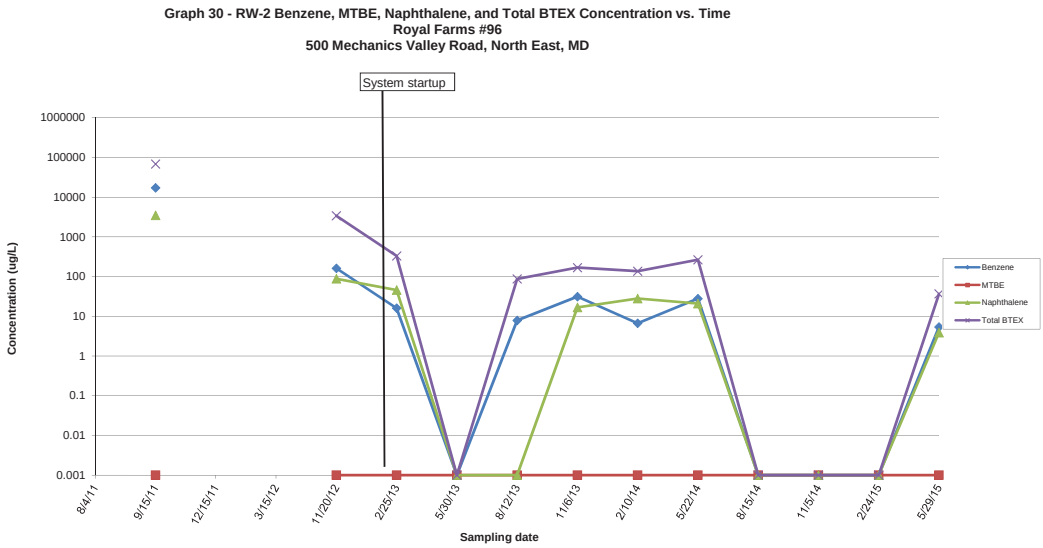
Graph 27 - MW-13D Shallow Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD

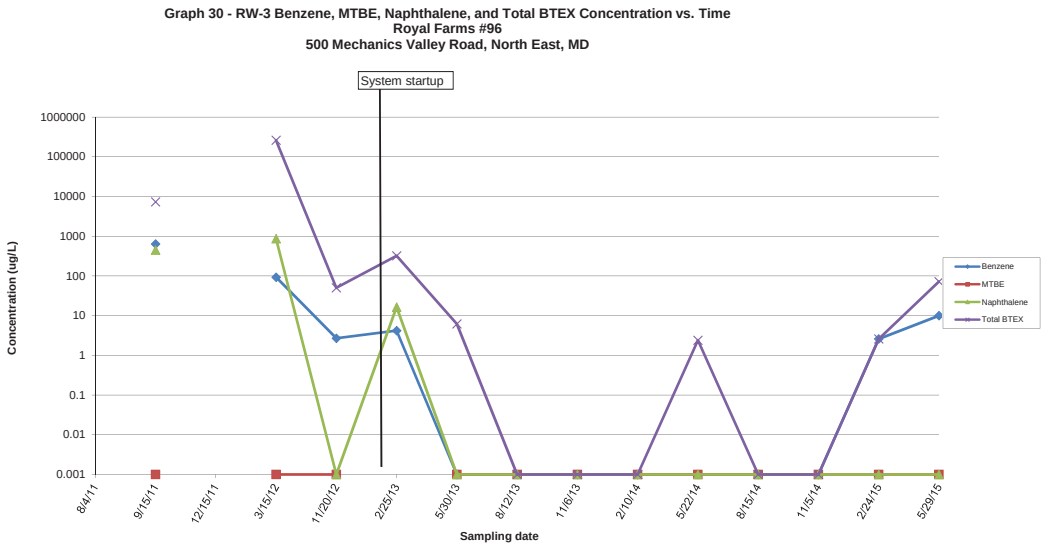


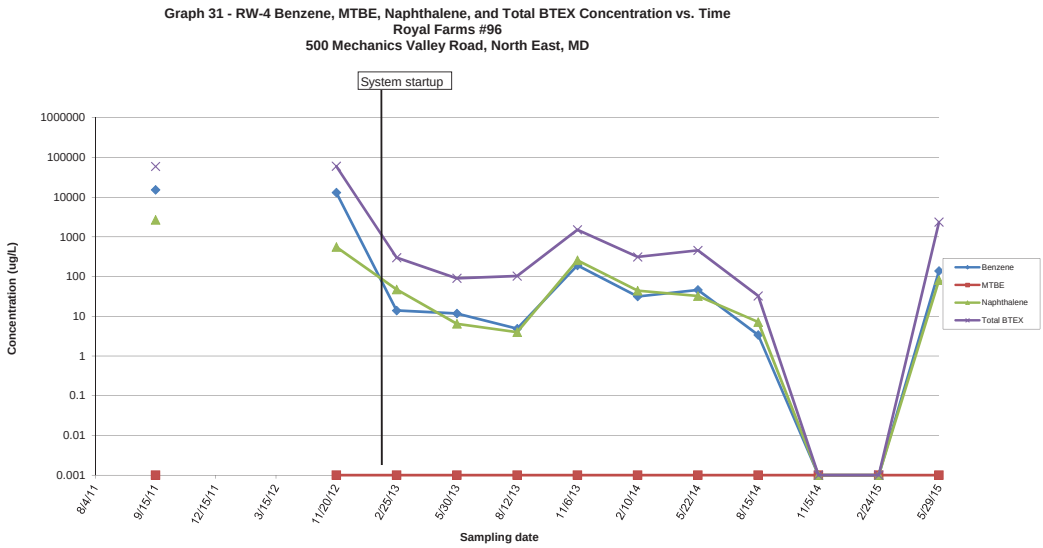
Graph 28 - MW-13D Deep Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



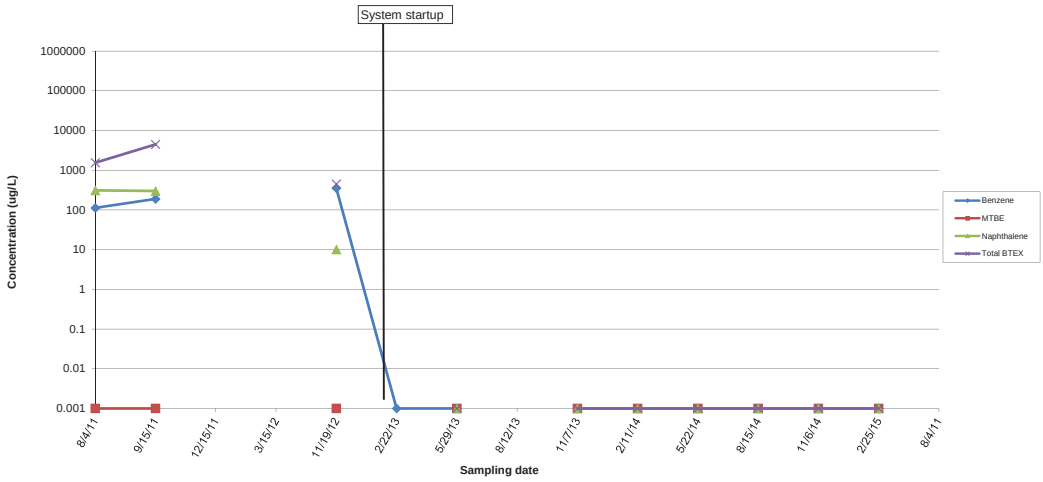

Graph 29 - RW-1 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
8/4/11
9/15/11
12/15/11
3/15/12
11/19/12
2/25/13
5/30/13
8/12/13
11/6/13
2/10/14
5/22/14
8/15/14
11/5/14
3/4/15
5/29/15
Sampling date
Benzene
MTBE
Naphthalene
Total BTEX


Graph 30 - RW-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
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
2/10/14
5/22/14
8/15/14
11/5/14
2/24/15
5/29/15
Sampling date
Benzene
MTBE
Naphthalene
Total BTEX

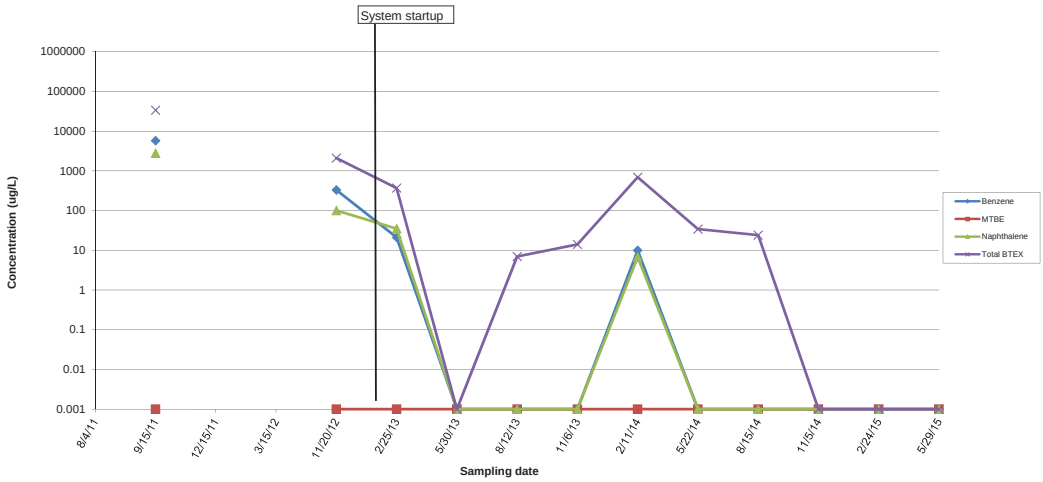

Graph 30 - RW-3 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
8/4/11
9/15/11
12/15/11
3/15/12
11/20/12
2/25/13
5/30/13
8/12/13
11/6/13
2/10/14
5/22/14
8/15/14
11/5/14
2/24/15
5/29/15
Sampling date
Benzene
MTBE
Naphthalene
Total BTEX

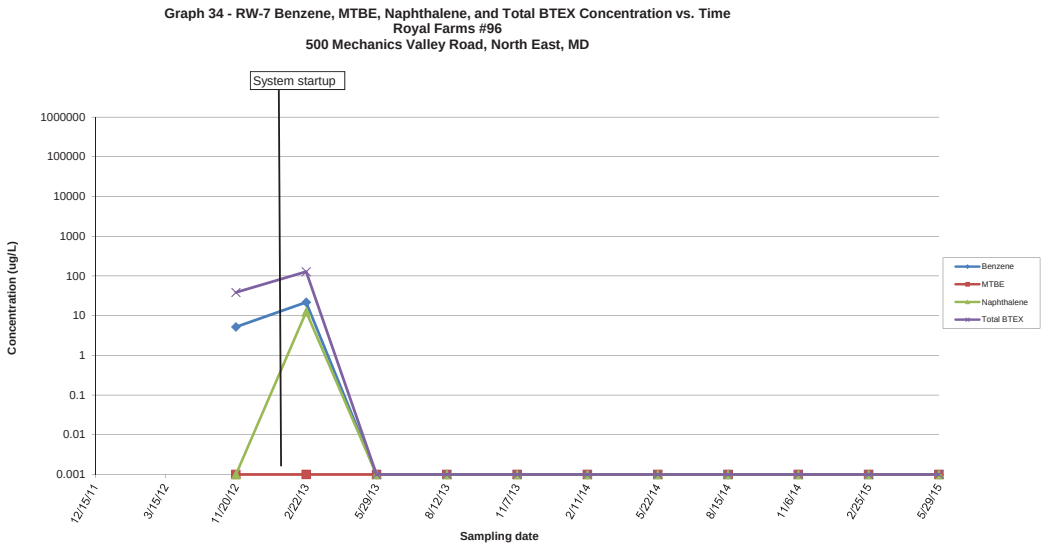

Graph 31 - RW-4 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
8/4/11
9/15/11
12/15/11
3/15/12
11/20/12
2/25/13
5/30/13
8/12/13
11/6/13
2/10/14
5/22/14
8/15/14
11/5/14
2/24/15
5/29/15
Sampling date
Benzene
MTBE
Naphthalene
Total BTEX

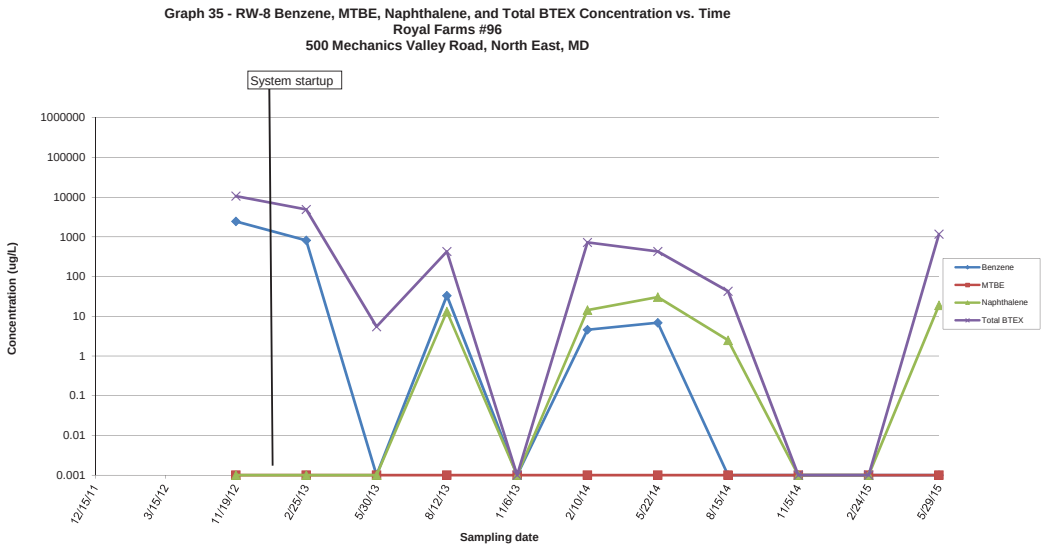
Graph 32 - RW-5 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



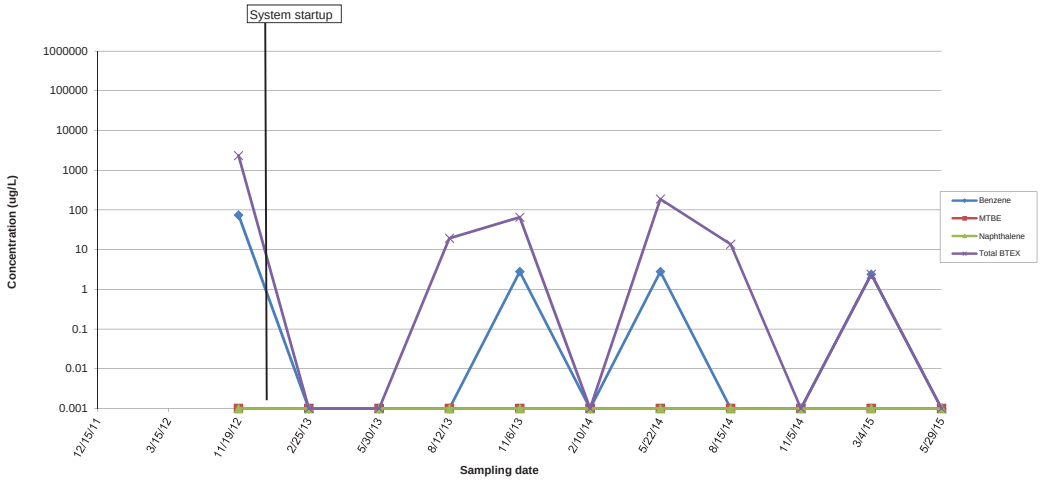
Graph 33 - RW-6 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



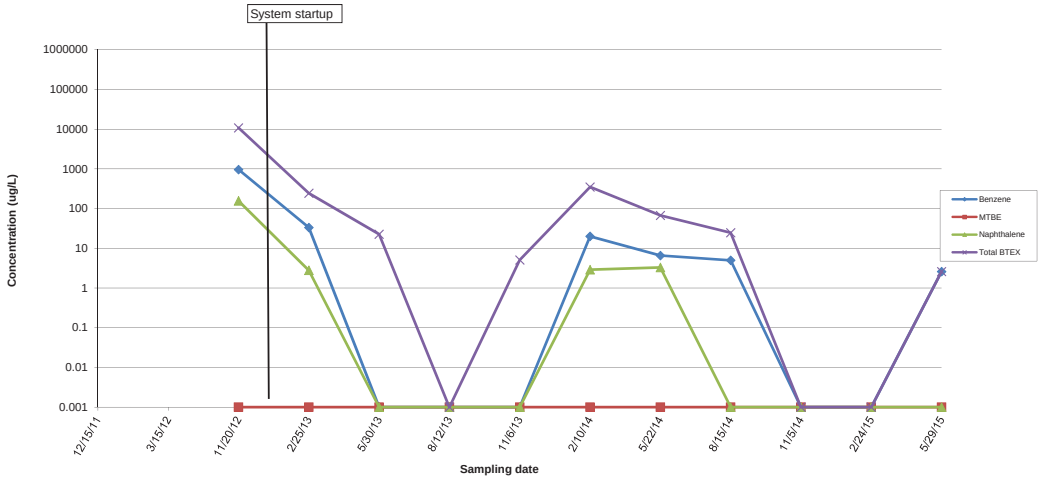

Graph 34 - RW-7 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
12/15/11
3/15/12
11/20/12
2/22/13
5/29/13
8/12/13
11/7/13
2/11/14
5/22/14
8/15/14
11/6/14
2/25/15
5/29/15
Sampling date
Benzene
MTBE
Naphthalene
Total BTEX

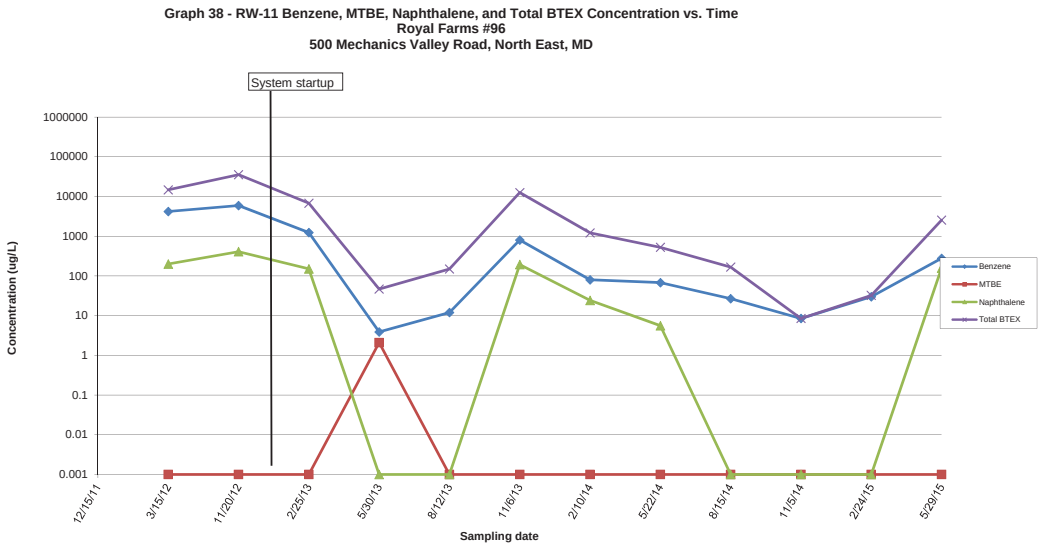

Graph 35 - RW-8 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
12/15/11
3/15/12
11/19/12
2/25/13
5/30/13
8/12/13
11/6/13
2/10/14
5/22/14
8/15/14
11/5/14
2/24/15
5/29/15
Sampling date
Benzene
MTBE
Naphthalene
Total BTEX

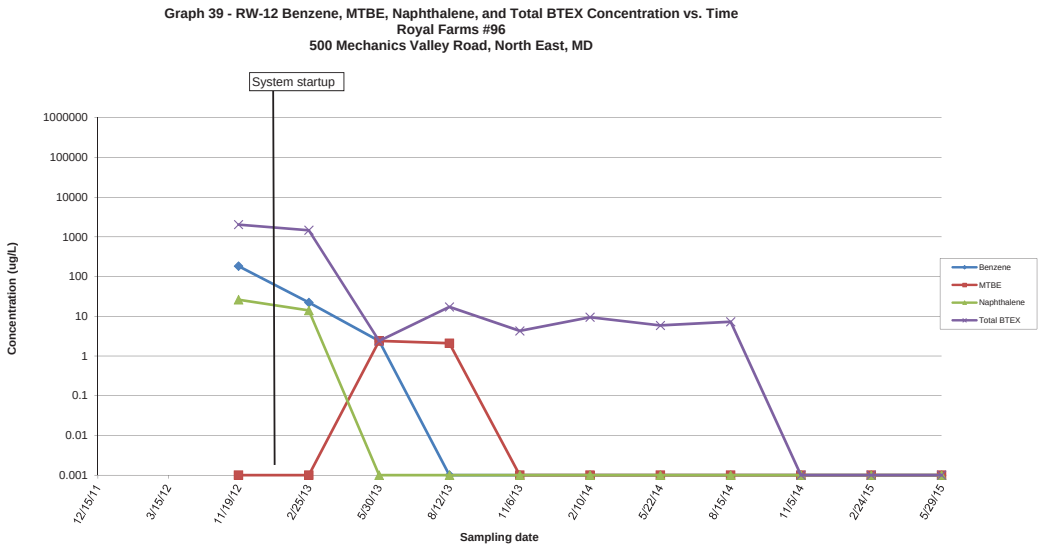
Graph 36 - RW-9 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD

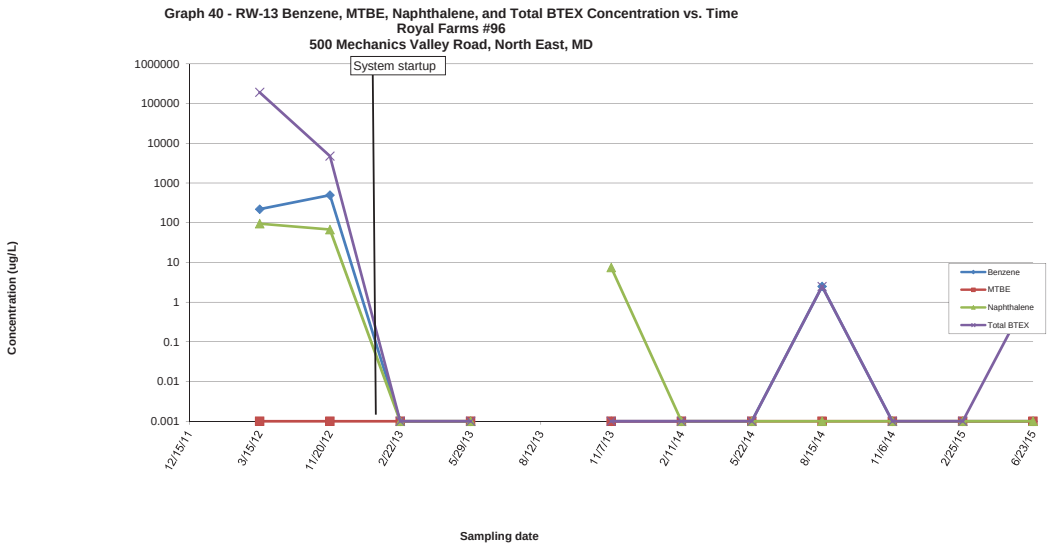


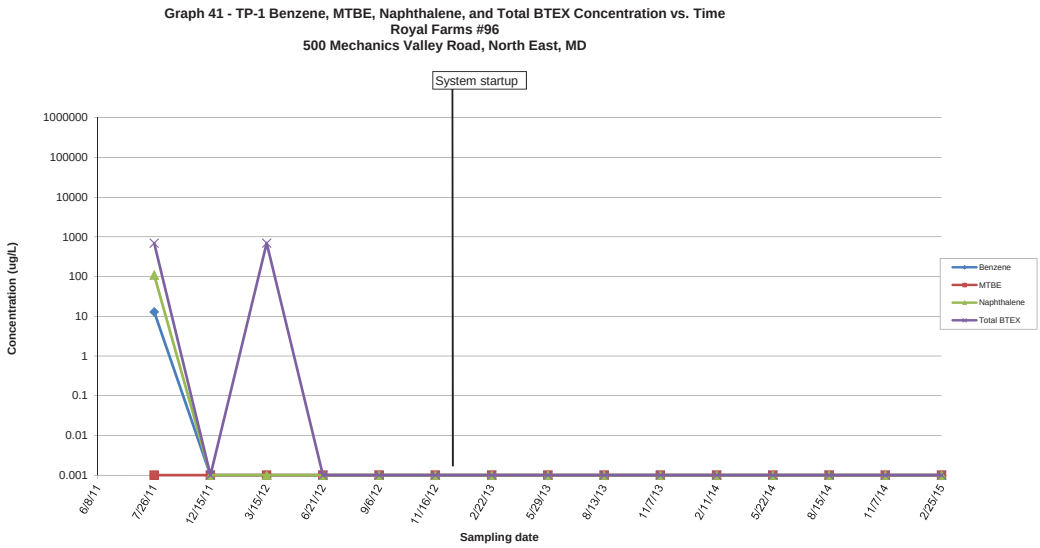
Graph 37 - RW-10 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD

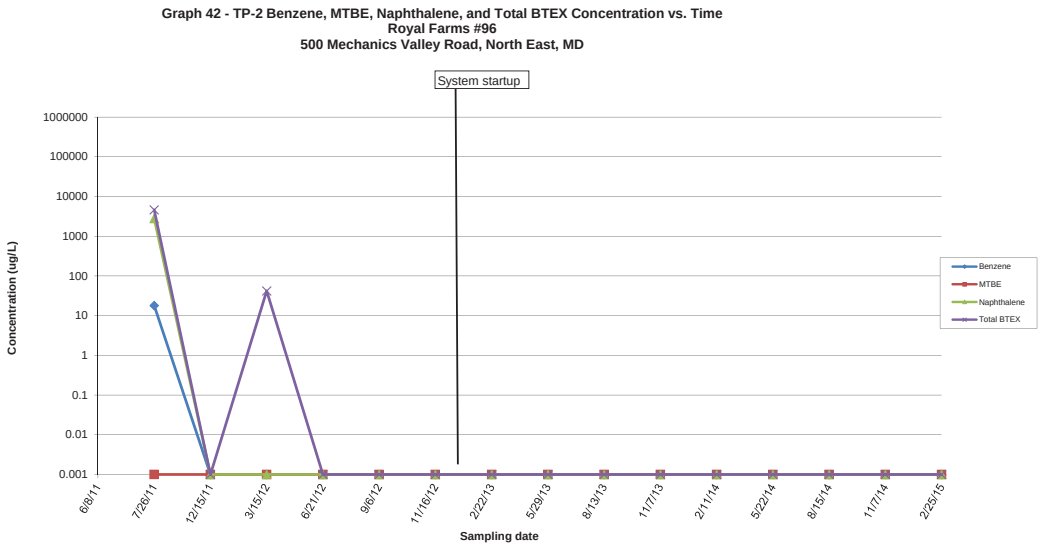


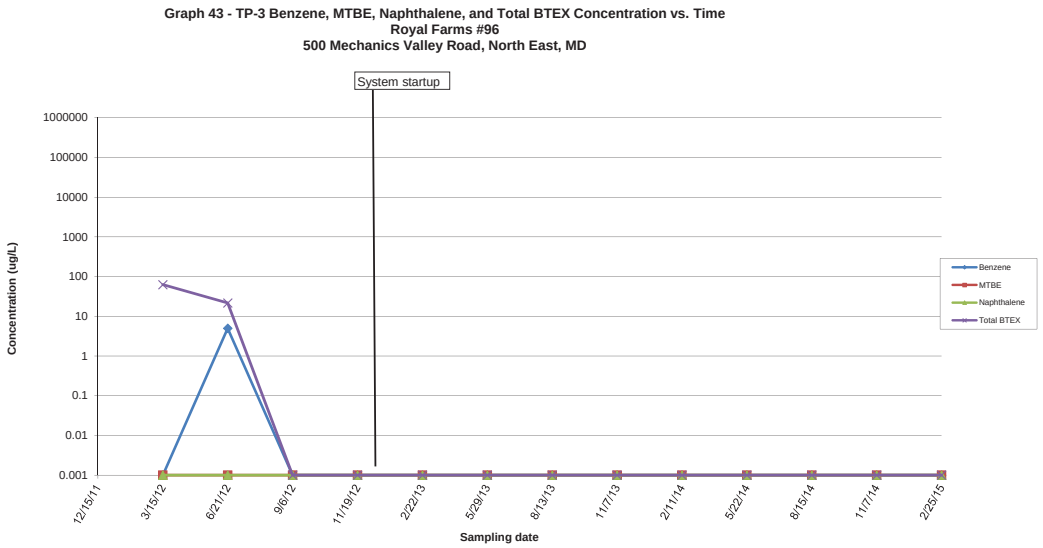

Graph 38 - RW-11 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
12/15/11
3/15/12
11/20/12
2/25/13
5/30/13
8/12/13
11/6/13
2/10/14
5/22/14
8/15/14
11/5/14
2/24/15
5/29/15
Sampling date
Benzene
MTBE
Naphthalene
Total BTEX

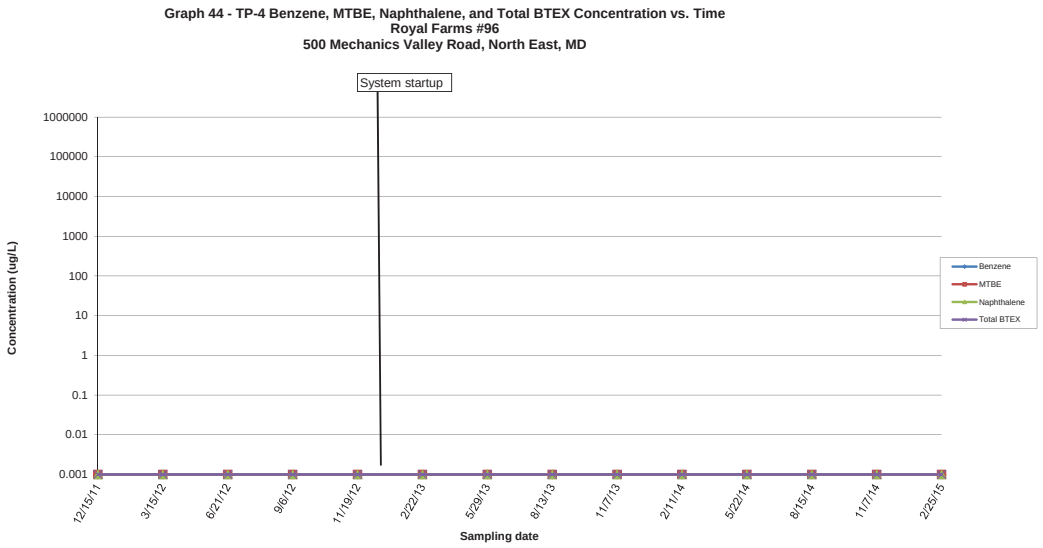

Graph 39 - RW-12 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
12/15/11
3/15/12
11/19/12
2/25/13
5/30/13
8/12/13
11/6/13
2/10/14
5/22/14
8/15/14
11/5/14
2/24/15
5/29/15
Sampling date
Benzene
MTBE
Naphthalene
Total BTEX


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
6/23/15
Sampling date
Benzene
MTBE
Naphthalene
Total BTEX

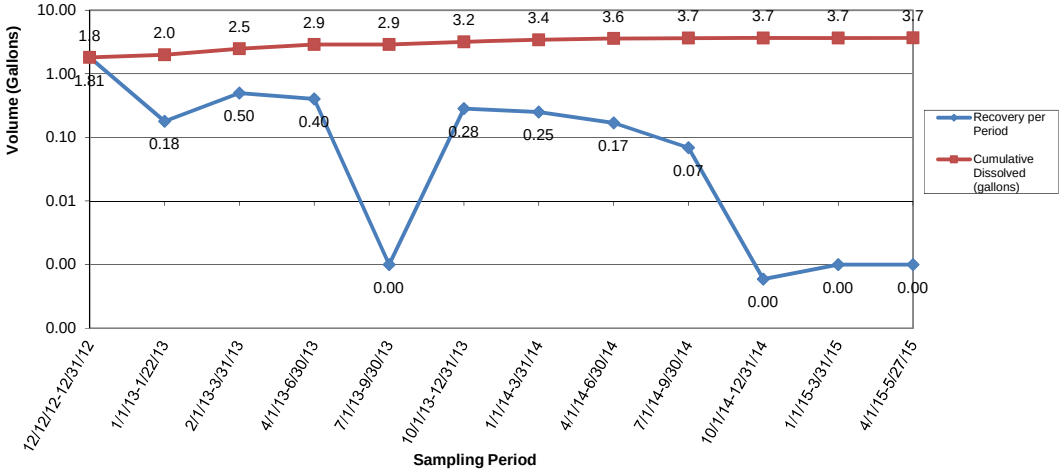

Graph 41 - TP-1 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
6/8/11
7/26/11
12/15/11
3/15/12
6/21/12
9/6/12
11/16/12
2/22/13
5/29/13
8/13/13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

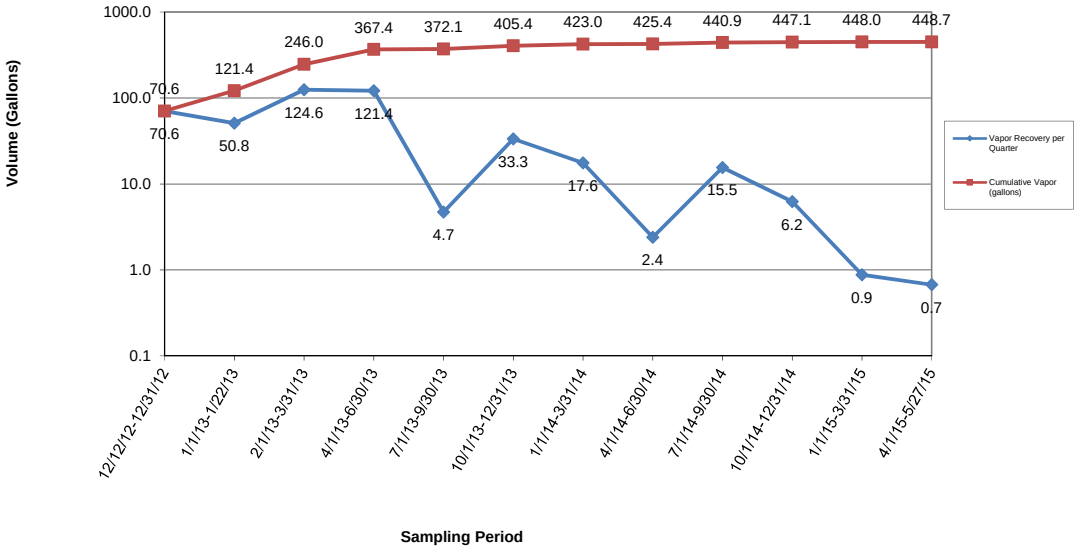

Graph 43 - TP-3 Benzene, MTBE, Naphthalene, and Total BTEX Concentration vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD
System startup
Concentration (ug/L)
1000000
100000
10000
1000
100
10
1
0.1
0.01
0.001
12/15/11
3/15/12
6/21/12
9/6/12
11/19/12
2/22/13
5/29/13
8/13/13
11/7/13
2/11/14
5/22/14
8/15/14
11/7/14
2/25/15
Sampling date
Benzene
MTBE
Naphthalene
Total BTEX


Graph 44 - TP-4 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
11/19/12
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
Benzene
MTBE
Naphthalene
Total BTEX

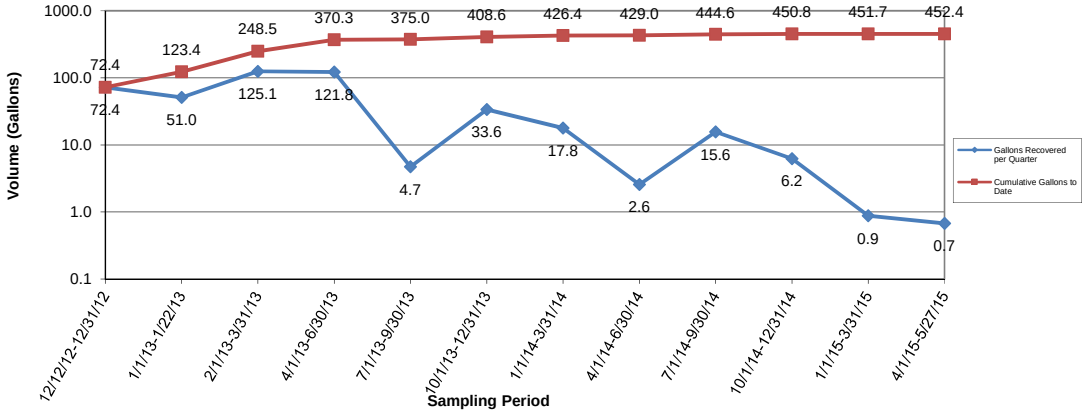
Graph 45 - Dissolved Phase Hydrocarbon Recovery (gal.) vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



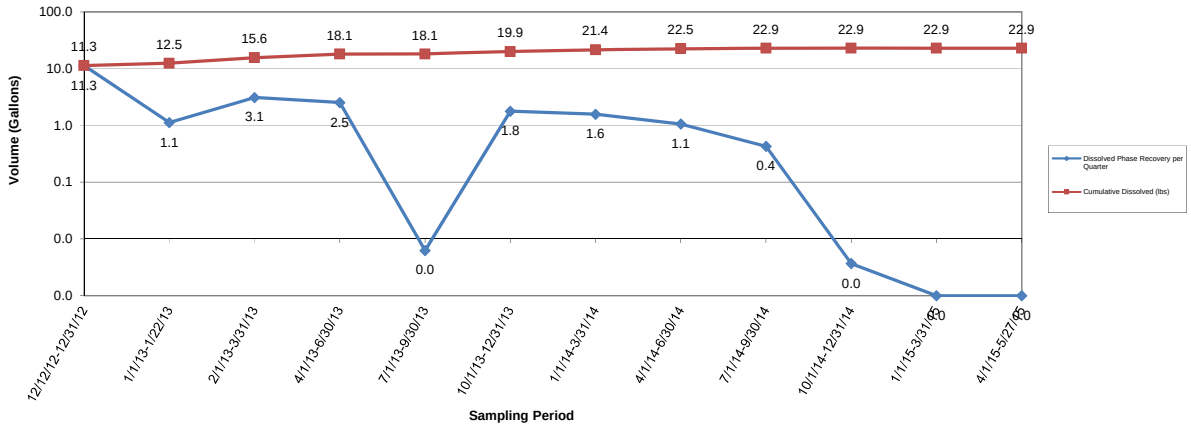
Graph 46 - Vapor Phase Hydrocarbon Recovery (gal.) vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



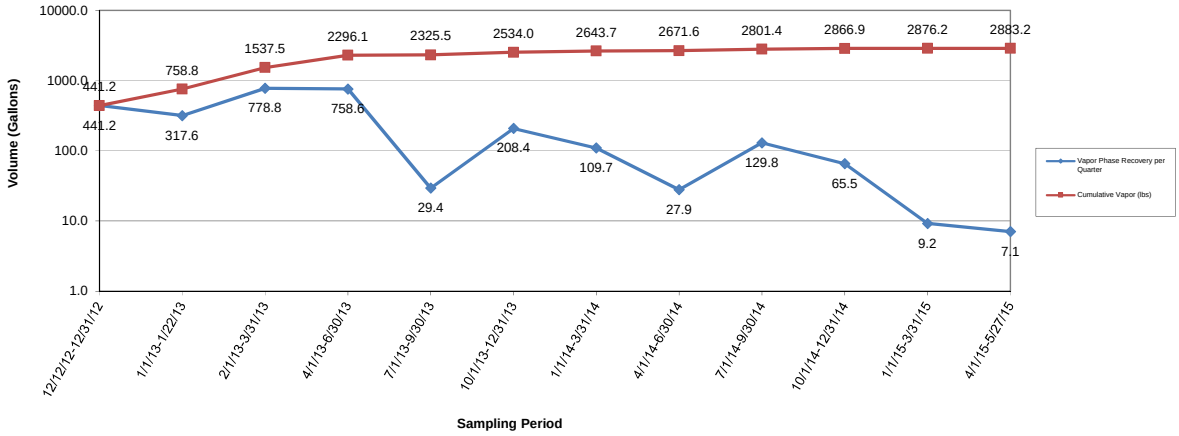
Graph 47 - Total Petroleum Hydrocarbon Recovery (gal.) vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



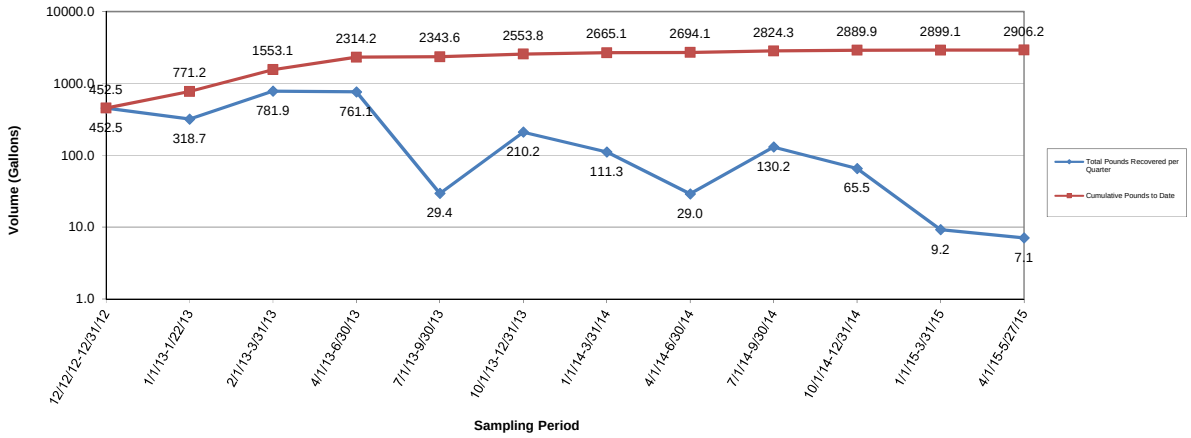
Graph 48 - Dissolved Phase Hydrocarbon Recovery (lbs.) vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



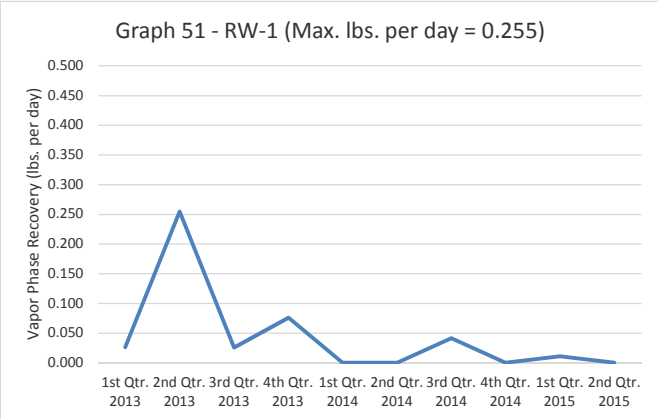
Graph 49 - Vapor Phase Hydrocarbon Recovery (lbs.) vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD

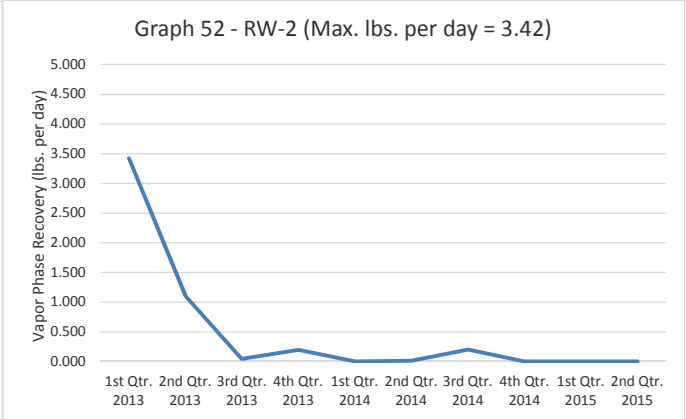


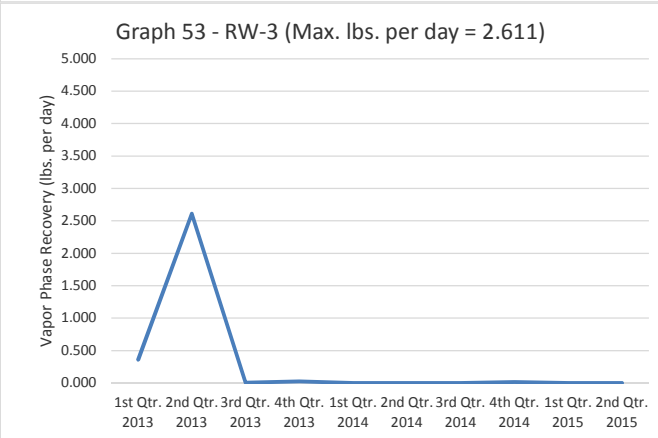
Graph 50 - Total Petroleum Hydrocarbon Recovery (lbs.) vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD

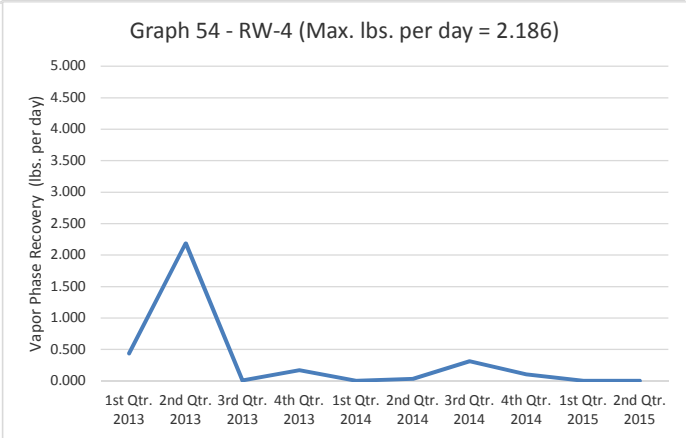


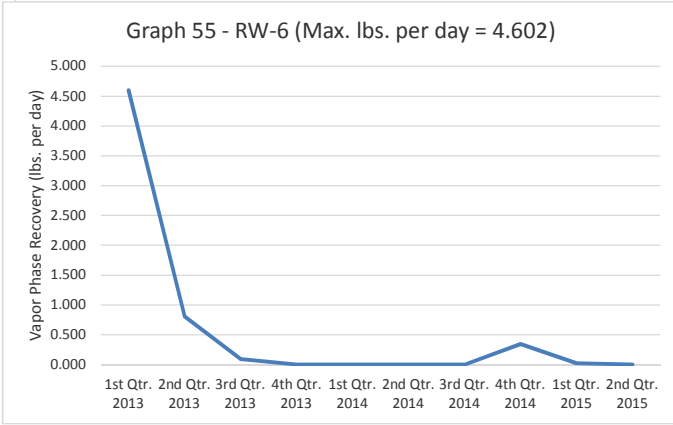
Total Vapor Petroleum Hydrocarbon Recovery (lbs. per day) vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD

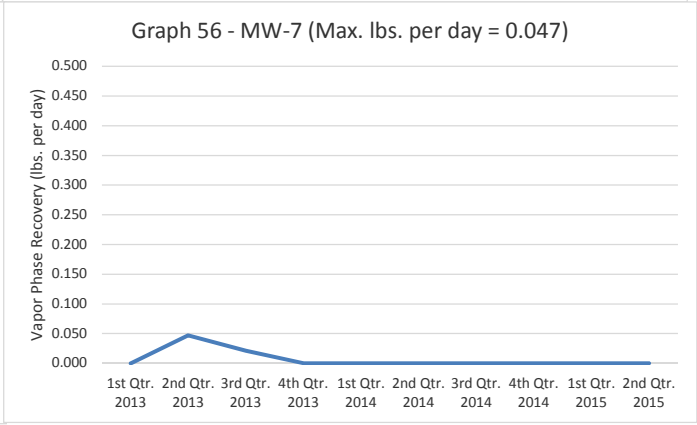




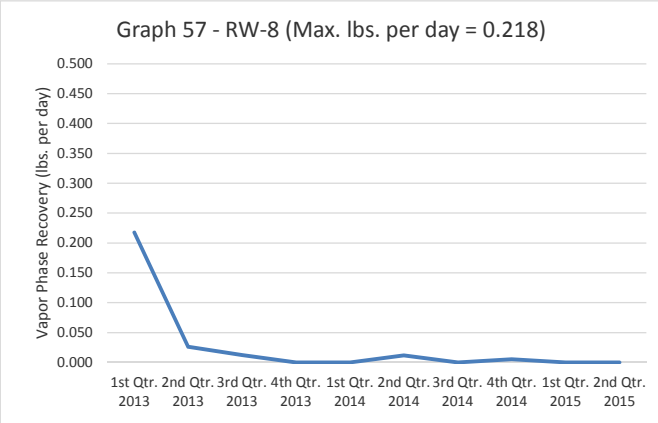


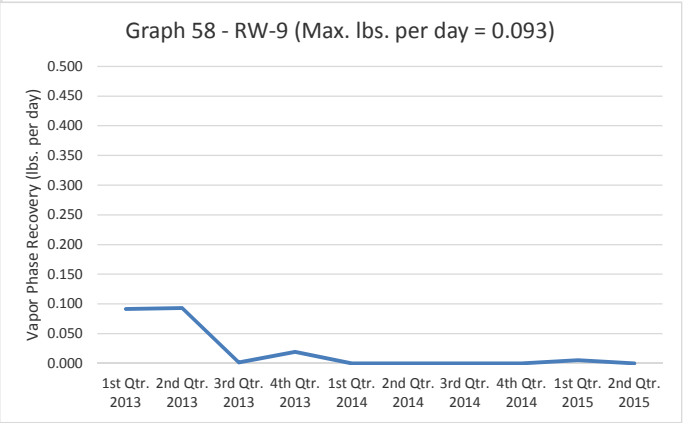


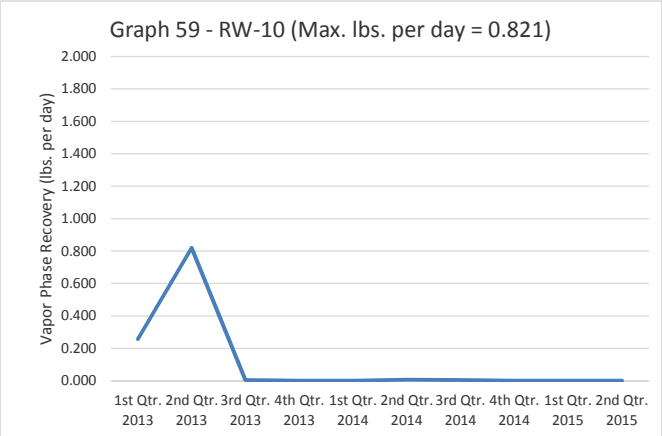


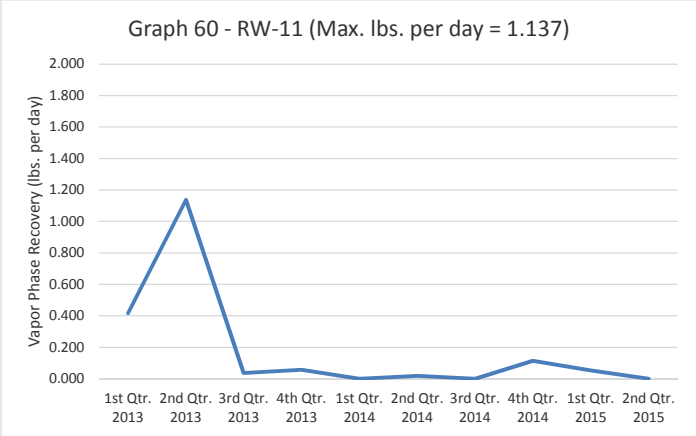


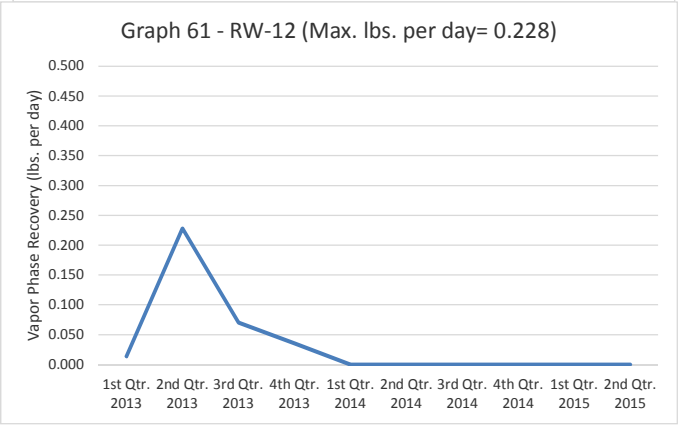
Total Vapor Petroleum Hydrocarbon Recovery (lbs. per day) vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD



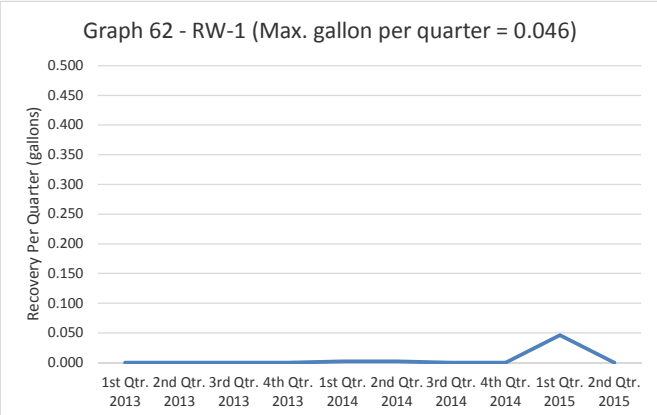


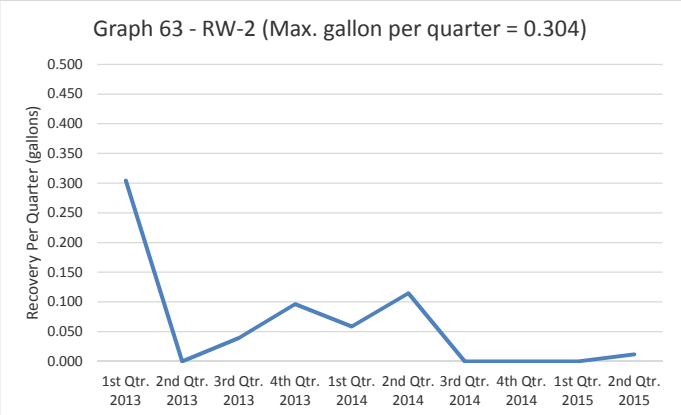


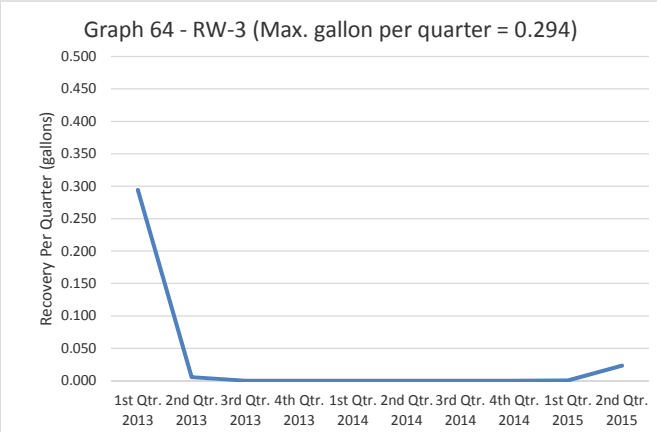


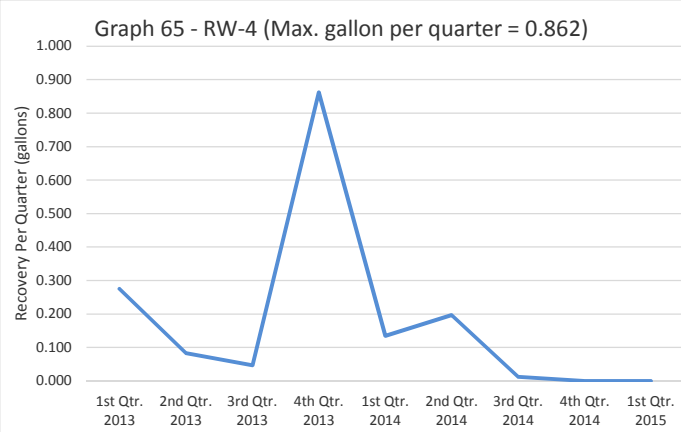


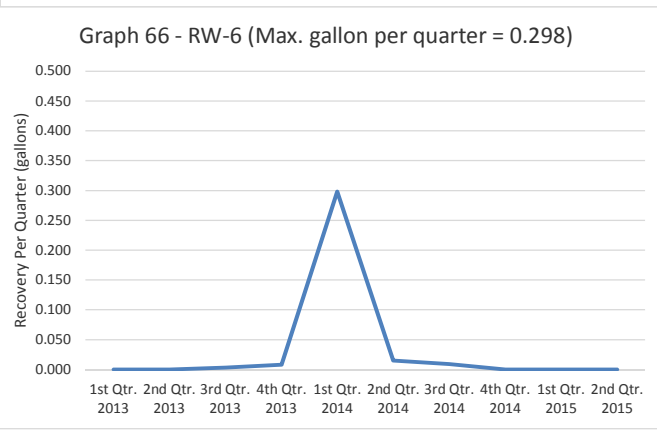
Total Dissolved Petroleum Hydrocarbon Recovery (gal.) vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD

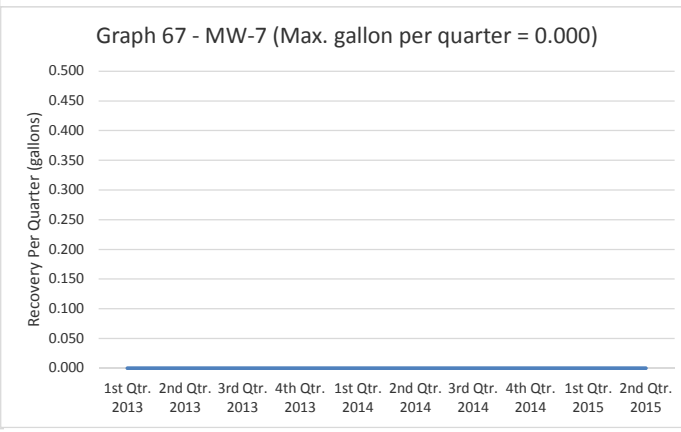




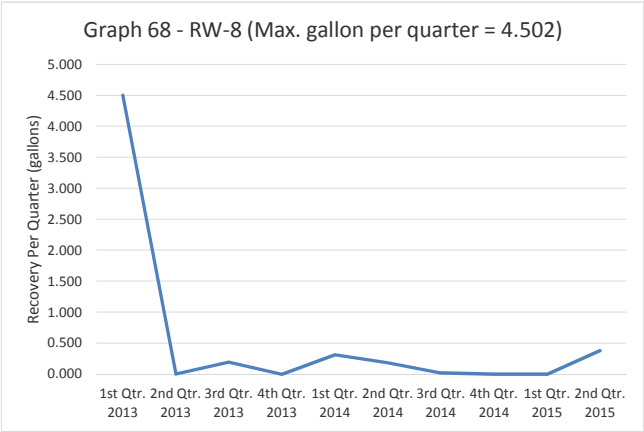


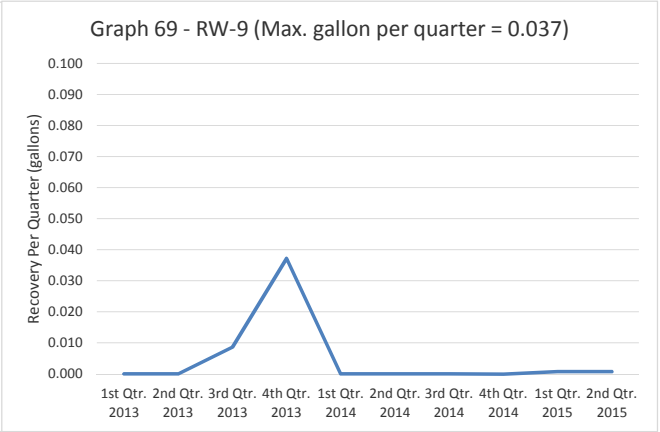


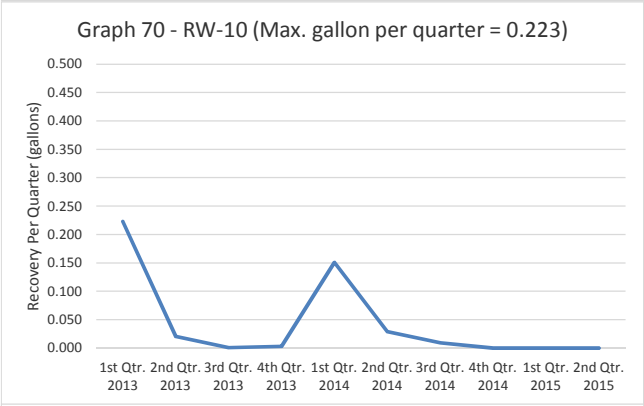


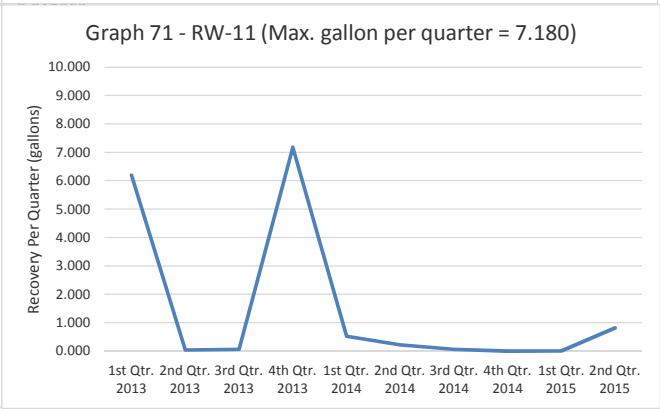


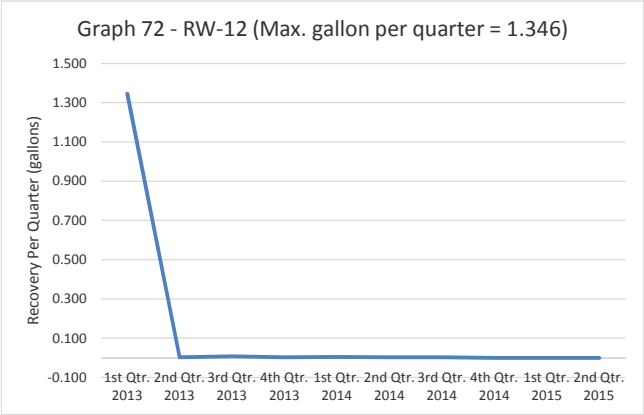
Total Dissolved Petroleum Hydrocarbon Recovery (gal.) vs. Time
Royal Farms #96
500 Mechanics Valley Road, North East, MD











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: RF-096

Project Number: 05-056-RF96

Project Manager: Jeffery Stein

Report Issued: 06/05/15 12:59

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

CLIENT SAMPLE ID:		MW-12D	MW-10D	MW-13D Shallow	MW-13D Deep	RW-1	RW-2
LAB SAMPLE ID:		5052922-01	5052922-02	5052922-03	5052922-04	5052922-05	5052922-06
SAMPLE DATE:		05/29/15	05/29/15	05/29/15	05/29/15	05/29/15	05/29/15
RECEIVED DATE:		05/29/15	05/29/15	05/29/15	05/29/15	05/29/15	05/29/15
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	<10.0
tert-Amyl alcohol (TAA)	ug/L	<20.0	<20.0	<20.0	<20.0	<20.0	**97.8**
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	**5.4**
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 = 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
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410-247-7600
www.mdspectral.com
VELAP ID 460040

Project: RF-096

Project Number: 05-056-RF96

Project Manager: Jeffery Stein

Report Issued: 06/05/15 12:59

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

CLIENT SAMPLE ID:		MW-12D	MW-10D	MW-13D Shallow	MW-13D Deep	RW-1	RW-2
LAB SAMPLE ID:		5052922-01	5052922-02	5052922-03	5052922-04	5052922-05	5052922-06
SAMPLE DATE:		05/29/15	05/29/15	05/29/15	05/29/15	05/29/15	05/29/15
RECEIVED DATE:		05/29/15	05/29/15	05/29/15	05/29/15	05/29/15	05/29/15
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	**11.8**	**2.6 [1]**	<2.0	**6.9**	<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	**3.9 [1]**
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	**5.0 [1]**
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	**25.8**
1,3,5-Trimethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	**7.9**
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	**15.3**
m- & p-Xylenes	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	**16.2**
1,2-Dichloroethane-d4	[surr]	97.7%	98.0%	99.8%	98.9%	97.4%	98.8%

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Analytical Results

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

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein
Report Issued: 06/05/15 12:59

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

CLIENT SAMPLE ID:		MW-12D	MW-10D	MW-13D Shallow	MW-13D Deep	RW-1	RW-2
LAB SAMPLE ID:		5052922-01	5052922-02	5052922-03	5052922-04	5052922-05	5052922-06
SAMPLE DATE:		05/29/15	05/29/15	05/29/15	05/29/15	05/29/15	05/29/15
RECEIVED DATE:		05/29/15	05/29/15	05/29/15	05/29/15	05/29/15	05/29/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)							
Toluene-d8	[surr]	96.9%	97.1%	97.6%	96.5%	97.1%	97.5%
4-Bromofluorobenzene	[surr]	91.6%	91.7%	90.5%	89.4%	91.1%	95.1%
GASOLINE RANGE ORGANICS BY EPA 8015B (Water)							
Gasoline-Range Organics	ug/L	<100	<100	<100	<100	<100	**119**
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	<0.19	<0.21	<0.20	<0.20	**0.45**
o-Terphenyl	[surr]	106%	93.6%	83.9%	76.7%	87.9%	82.5%

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Maryland spectral Services
Analytical Chemistry Services

Analytical Results

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Advantage Environmental Consultants, LLC
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Jessup MD, 20794

CLIENT SAMPLE ID:		RW-3	RW-4	RW-5	RW-6	RW-7	RW-8
LAB SAMPLE ID:		5052922-07	5052922-08	5052922-09	5052922-10	5052922-11	5052922-12
SAMPLE DATE:		05/29/15	05/29/15	05/29/15	05/29/15	05/29/15	05/29/15
RECEIVED DATE:		05/29/15	05/29/15	05/29/15	05/29/15	05/29/15	05/29/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (Water)							
Acetone	ug/L	<10.0	<100	<10.0	<10.0	<10.0	<50.0
tert-Amyl alcohol (TAA)	ug/L	<20.0	<200	<20.0	**35.3**	<20.0	<100
tert-Amyl methyl ether (TAME)	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Benzene	ug/L	**10.0**	**139**	<2.0	<2.0	<2.0	<10.0
Bromobenzene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Bromochloromethane	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Bromodichloromethane	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Bromoform	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Bromomethane	ug/L	<5.0	<50.0	<5.0	<5.0	<5.0	<25.0
tert-Butanol (TBA)	ug/L	<15.0	<150	<15.0	<15.0	<15.0	<75.0
2-Butanone (MEK)	ug/L	<10.0	<100	<10.0	<10.0	<10.0	<50.0
n-Butylbenzene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
sec-Butylbenzene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
tert-Butylbenzene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Carbon disulfide	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Carbon tetrachloride	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Chlorobenzene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Chloroethane	ug/L	<5.0	<50.0	<5.0	<5.0	<5.0	<25.0
Chloroform	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Chloromethane	ug/L	<5.0	<50.0	<5.0	<5.0	<5.0	<25.0
2-Chlorotoluene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
4-Chlorotoluene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Dibromochloromethane	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
1,2-Dibromo-3-chloropropane	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
1,2-Dibromoethane (EDB)	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Dibromomethane	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
1,2-Dichlorobenzene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
1,3-Dichlorobenzene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
1,4-Dichlorobenzene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Dichlorodifluoromethane	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
1,1-Dichloroethane	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
1,2-Dichloroethane	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
1,1-Dichloroethene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
cis-1,2-Dichloroethene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
trans-1,2-Dichloroethene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Dichlorofluoromethane	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0

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

Analytical Results

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VELAP ID 460040

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein
Report Issued: 06/05/15 12:59

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

CLIENT SAMPLE ID:		RW-3	RW-4	RW-5	RW-6	RW-7	RW-8
LAB SAMPLE ID:		5052922-07	5052922-08	5052922-09	5052922-10	5052922-11	5052922-12
SAMPLE DATE:		05/29/15	05/29/15	05/29/15	05/29/15	05/29/15	05/29/15
RECEIVED DATE:		05/29/15	05/29/15	05/29/15	05/29/15	05/29/15	05/29/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)							
1,2-Dichloropropane	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
1,3-Dichloropropane	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
2,2-Dichloropropane	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
1,1-Dichloropropene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
cis-1,3-Dichloropropene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
trans-1,3-Dichloropropene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Diisopropyl ether (DIPE)	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Ethyl tert-butyl ether (ETBE)	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Ethylbenzene	ug/L	**3.5 [1]**	**137**	<2.0	<2.0	<2.0	**97.6**
Hexachlorobutadiene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
2-Hexanone	ug/L	<10.0	<100	<10.0	<10.0	<10.0	<50.0
Isopropylbenzene (Cumene)	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
4-Isopropyltoluene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Methyl tert-butyl ether (MTBE)	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
4-Methyl-2-pentanone	ug/L	<10.0	<100	<10.0	<10.0	<10.0	<50.0
Methylene chloride	ug/L	<10.0	<100	<10.0	<10.0	<10.0	<50.0
Naphthalene	ug/L	<2.0	**81.9**	<2.0	<2.0	<2.0	**19.0 [1]**
n-Propylbenzene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Styrene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
1,1,1,2-Tetrachloroethane	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
1,1,2,2-Tetrachloroethane	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Tetrachloroethene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Toluene	ug/L	**26.6**	**930**	<2.0	<2.0	<2.0	**48.2**
1,2,3-Trichlorobenzene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
1,2,4-Trichlorobenzene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
1,1,1-Trichloroethane	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
1,1,2-Trichloroethane	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Trichloroethene	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
Trichlorofluoromethane (Freon 11)	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
1,2,3-Trichloropropane	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
1,2,4-Trimethylbenzene	ug/L	**4.0 [1]**	**316**	<2.0	<2.0	<2.0	**154**
1,3,5-Trimethylbenzene	ug/L	<2.0	**80.9**	<2.0	<2.0	<2.0	**50.9**
Vinyl chloride	ug/L	<2.0	<20.0	<2.0	<2.0	<2.0	<10.0
o-Xylene	ug/L	**11.2**	**492**	<2.0	<2.0	<2.0	**403**
m- & p-Xylenes	ug/L	**21.1**	**799**	<2.0	<2.0	<2.0	**626**
1,2-Dichloroethane-d4	[surr]	98.8%	99.3%	98.2%	97.6%	99.0%	98.5%

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Maryland spectral Services
Analytical Chemistry Services

Analytical Results

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Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein
Report Issued: 06/05/15 12:59

Advantage Environmental Consultants, LLC
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CLIENT SAMPLE ID:		RW-3	RW-4	RW-5	RW-6	RW-7	RW-8
LAB SAMPLE ID:		5052922-07	5052922-08	5052922-09	5052922-10	5052922-11	5052922-12
SAMPLE DATE:		05/29/15	05/29/15	05/29/15	05/29/15	05/29/15	05/29/15
RECEIVED DATE:		05/29/15	05/29/15	05/29/15	05/29/15	05/29/15	05/29/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)							
Toluene-d8	[surr]	98.4%	97.3%	98.6%	97.2%	97.7%	98.2%
4-Bromofluorobenzene	[surr]	95.3%	95.7%	92.3%	92.2%	90.4%	97.6%
GASOLINE RANGE ORGANICS BY EPA 8015B (Water)							
Gasoline-Range Organics	ug/L	<100	**3170**	<100	<100	<100	**1340**
a,a,a-Trifluorotoluene	[surr]	101%	101%	101%	101%	101%	101%
DIESEL RANGE ORGANICS BY EPA 3510/8015B (Water)							
Diesel-Range Organics	mg/L	**0.29**	**4.05**	<0.24	**0.38**	<0.22	**0.73**
o-Terphenyl	[surr]	81.5%	109%	85.3%	86.1%	82.0%	91.8%

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

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein
Report Issued: 06/05/15 12:59

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

CLIENT SAMPLE ID:		RW-9	RW-10	RW-11	RW-12	MW-7
LAB SAMPLE ID:		5052922-13	5052922-14	5052922-15	5052922-16	5052922-17
SAMPLE DATE:		05/29/15	05/29/15	05/29/15	05/29/15	05/29/15
RECEIVED DATE:		05/29/15	05/29/15	05/29/15	05/29/15	05/29/15
MATRIX	Units	Water	Water	Water	Water	Water

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

Acetone	ug/L	<10.0	<10.0	<50.0	<10.0	<10.0
tert-Amyl alcohol (TAA)	ug/L	<20.0	<20.0	**120**	<20.0	<20.0
tert-Amyl methyl ether (TAME)	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Benzene	ug/L	<2.0	**2.6 [1]**	**278**	<2.0	<2.0
Bromobenzene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Bromochloromethane	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Bromodichloromethane	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Bromoform	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Bromomethane	ug/L	<5.0	<5.0	<25.0	<5.0	<5.0
tert-Butanol (TBA)	ug/L	<15.0	<15.0	<75.0	<15.0	<15.0
2-Butanone (MEK)	ug/L	<10.0	<10.0	<50.0	<10.0	<10.0
n-Butylbenzene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
sec-Butylbenzene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
tert-Butylbenzene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Carbon disulfide	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Carbon tetrachloride	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Chlorobenzene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Chloroethane	ug/L	<5.0	<5.0	<25.0	<5.0	<5.0
Chloroform	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Chloromethane	ug/L	<5.0	<5.0	<25.0	<5.0	<5.0
2-Chlorotoluene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
4-Chlorotoluene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Dibromochloromethane	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
1,2-Dibromo-3-chloropropane	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
1,2-Dibromoethane (EDB)	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Dibromomethane	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
1,2-Dichlorobenzene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
1,3-Dichlorobenzene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
1,4-Dichlorobenzene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Dichlorodifluoromethane	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
1,1-Dichloroethane	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
1,2-Dichloroethane	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
1,1-Dichloroethene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
cis-1,2-Dichloroethene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
trans-1,2-Dichloroethene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Dichlorofluoromethane	ug/L	<2.0	<2.0	<10.0	<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: Jeffery Stein
Report Issued: 06/05/15 12:59

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

CLIENT SAMPLE ID:		RW-9	RW-10	RW-11	RW-12	MW-7
LAB SAMPLE ID:		5052922-13	5052922-14	5052922-15	5052922-16	5052922-17
SAMPLE DATE:		05/29/15	05/29/15	05/29/15	05/29/15	05/29/15
RECEIVED DATE:		05/29/15	05/29/15	05/29/15	05/29/15	05/29/15
MATRIX	Units	Water	Water	Water	Water	Water

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

1,2-Dichloropropane	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
1,3-Dichloropropane	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
2,2-Dichloropropane	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
1,1-Dichloropropene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
cis-1,3-Dichloropropene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
trans-1,3-Dichloropropene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Diisopropyl ether (DIPE)	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Ethyl tert-butyl ether (ETBE)	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Ethylbenzene	ug/L	<2.0	<2.0	**467**	<2.0	<2.0
Hexachlorobutadiene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
2-Hexanone	ug/L	<10.0	<10.0	<50.0	<10.0	<10.0
Isopropylbenzene (Cumene)	ug/L	<2.0	<2.0	**23.9 [1]**	<2.0	<2.0
4-Isopropyltoluene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Methyl tert-butyl ether (MTBE)	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
4-Methyl-2-pentanone	ug/L	<10.0	<10.0	<50.0	<10.0	<10.0
Methylene chloride	ug/L	<10.0	<10.0	<50.0	<10.0	<10.0
Naphthalene	ug/L	<2.0	<2.0	**158**	<2.0	<2.0
n-Propylbenzene	ug/L	<2.0	<2.0	**54.0**	<2.0	<2.0
Styrene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
1,1,1,2-Tetrachloroethane	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
1,1,2,2-Tetrachloroethane	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Tetrachloroethene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Toluene	ug/L	<2.0	<2.0	**638**	<2.0	<2.0
1,2,3-Trichlorobenzene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
1,2,4-Trichlorobenzene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
1,1,1-Trichloroethane	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
1,1,2-Trichloroethane	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Trichloroethene	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
Trichlorofluoromethane (Freon 11)	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
1,2,3-Trichloropropane	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
1,2,4-Trimethylbenzene	ug/L	<2.0	<2.0	**530**	<2.0	<2.0
1,3,5-Trimethylbenzene	ug/L	<2.0	<2.0	**67.6**	<2.0	<2.0
Vinyl chloride	ug/L	<2.0	<2.0	<10.0	<2.0	<2.0
o-Xylene	ug/L	<2.0	<2.0	**308**	<2.0	<2.0
m- & p-Xylenes	ug/L	<2.0	<2.0	**859**	<2.0	<2.0
1,2-Dichloroethane-d4	[surr]	98.4%	97.9%	98.8%	97.2%	99.9%

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: Jeffery Stein

Report Issued: 06/05/15 12:59

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

CLIENT SAMPLE ID:		RW-9	RW-10	RW-11	RW-12	MW-7
LAB SAMPLE ID:		5052922-13	5052922-14	5052922-15	5052922-16	5052922-17
SAMPLE DATE:		05/29/15	05/29/15	05/29/15	05/29/15	05/29/15
RECEIVED DATE:		05/29/15	05/29/15	05/29/15	05/29/15	05/29/15
MATRIX	Units	Water	Water	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)						
Toluene-d8	[surr]	97.3%	96.5%	96.5%	98.4%	97.6%
4-Bromofluorobenzene	[surr]	88.8%	88.7%	94.8%	92.3%	91.0%
GASOLINE RANGE ORGANICS BY EPA 8015B (Water)						
Gasoline-Range Organics	ug/L	<100	<100	**3510**	<100	<100
a,a,a-Trifluorotoluene	[surr]	101%	101%	102%	100%	101%
DIESEL RANGE ORGANICS BY EPA 3510/8015B (Water)						
Diesel-Range Organics	mg/L	<0.22	**0.37**	**1.94**	<0.21	<0.20
o-Terphenyl	[surr]	84.5%	83.7%	82.8%	78.9%	78.3%

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.
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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, $Na_2S_2O_3$, $NaHCO_3$

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

Company Name: AEC

Project Manager: J. Stein

Project Name: RF096

Project ID: 05-056-RF096

Sampler(s): K. Pellegrini, R. Swaringer

P.O. Number: 05-056-RF096

Analysis Requested: VOCs 8260, TPH GRO 8015, TPH DRO 8015

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	VOCs 8260	TPH GRO 8015	TPH DRO 8015	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
MW-12D	5-29-15	12:50	X			3	X	X	X	1H HCL	5052922-01
MW-10D		13:00									02
MW-13D Shallow		13:10									03
MW-13D Deep		13:15									04
RW-1		14:25									05
RW-2		14:35									06
RW-3		14:40									07
RW-4		14:45									08
RW-5		14:55									09
RW-6		14:58									10

Relinquished by: (Signature) Kevin Pellegrini — Date/Time 5/29/15 17:11 — Received by: (Signature) Andrew Boecker

(Printed) Kevin Pellegrini — (Printed) Andrew Boecker

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

(Printed) — (Printed) — (Printed)

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

Special Instructions/QC Requirements & Comments: results to: kpellegrini@aec-env-com, jstein, rswaringer

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

Maryland spectral Services

Analytical Chemistry Services

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Baltimore MD 21227
410-247-7600
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VELAP ID 460040

Analytical Results

Project: RF-096

Project Number: 05-056-RF96

Project Manager: Jeffery Stein

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

Report Issued: 06/08/15 10:26

CLIENT SAMPLE ID:		MW-16	MW-15	MW-6	MW-5	MW-4	MW-1R
LAB SAMPLE ID:		5052813-01	5052813-02	5052813-03	5052813-04	5052813-05	5052813-06
SAMPLE DATE:		05/28/15	05/28/15	05/28/15	05/28/15	05/28/15	05/28/15
RECEIVED DATE:		05/28/15	05/28/15	05/28/15	05/28/15	05/28/15	05/28/15
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	<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
1,1-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 = 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: RF096
Sampler(s): KPellegrini/JSwanington
Project Manager: J Stein
Project ID: GS-OSC-RF096
P.O. Number: GS-OSC-RF096

Analysis Requested

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	8260B	TPH GRO 8015	VOCs 8260	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-7	5-29-15	15:00	X			3	X	X	X	HCL		5052922-11
RW-8		15:05										12
RW-9		15:15										13
RW-10		15:25										14
RW-11		15:35										15
RW-12		15:40										16
MW-7		15:45										17

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

Relinquished by: (Signature) — Date/Time 5/29/15 12:11 — Received by: (Signature)
(Printed) Kevin Pellegrini — (Printed) Andrew Boecker

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

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

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

Special Instructions/QC Requirements & Comments:
Results to: Kpellegrini@aec-cwr.com
Address: Jswanington
Jstein

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

MSS-F-001-03/13

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: Jeffery Stein
Report Issued: 06/08/15 10:26

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-1R
LAB SAMPLE ID:		5052813-01	5052813-02	5052813-03	5052813-04	5052813-05	5052813-06
SAMPLE DATE:		05/28/15	05/28/15	05/28/15	05/28/15	05/28/15	05/28/15
RECEIVED DATE:		05/28/15	05/28/15	05/28/15	05/28/15	05/28/15	05/28/15
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]	106%	107%	108%	108%	109%	108%

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

Analytical Results

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

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein
Report Issued: 06/08/15 10:26

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-1R
LAB SAMPLE ID:		5052813-01	5052813-02	5052813-03	5052813-04	5052813-05	5052813-06
SAMPLE DATE:		05/28/15	05/28/15	05/28/15	05/28/15	05/28/15	05/28/15
RECEIVED DATE:		05/28/15	05/28/15	05/28/15	05/28/15	05/28/15	05/28/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)							
Toluene-d8	[surr]	98.7%	99.0%	99.2%	98.5%	98.8%	98.7%
4-Bromofluorobenzene	[surr]	96.0%	97.5%	96.5%	96.4%	96.2%	96.1%
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%	100%	101%	100%	100%
DIESEL RANGE ORGANICS BY EPA 3510/8015B (Water)							
Diesel-Range Organics	mg/L	<0.19	<0.20	<0.19	<0.19	<0.20	<0.20
o-Terphenyl	[surr]	98.1%	84.4%	82.6%	81.9%	99.4%	96.0%
Metals (Water)							
Iron	mg/L			<0.050			
Wet Chemistry (Water)							
Nitrite (as N)	mg/L			<0.2			
Nitrate (as N)	mg/L			**2.0**			
Sulfate	mg/L			**11.8**			
Kjeldahl Nitrogen	mg/L			<0.4			

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Analytical Chemistry Services

Analytical Results

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Project Number: 05-056-RF96

Project Manager: Jeffery Stein

Report Issued: 06/08/15 10:26

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

CLIENT SAMPLE ID:		MW-14	MW-13	MW-10	MW-12	MW-11	MW-2
LAB SAMPLE ID:		5052813-07	5052813-08	5052813-09	5052813-10	5052813-11	5052813-12
SAMPLE DATE:		05/28/15	05/28/15	05/28/15	05/28/15	05/28/15	05/28/15
RECEIVED DATE:		05/28/15	05/28/15	05/28/15	05/28/15	05/28/15	05/28/15
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	<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
1,1-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 = 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

Project Number: 05-056-RF96

Project Manager: Jeffery Stein

Report Issued: 06/08/15 10:26

Advantage Environmental Consultants, LLC
8610 Baltimore Washington Blvd, Suite 217
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CLIENT SAMPLE ID:		MW-14	MW-13	MW-10	MW-12	MW-11	MW-2
LAB SAMPLE ID:		5052813-07	5052813-08	5052813-09	5052813-10	5052813-11	5052813-12
SAMPLE DATE:		05/28/15	05/28/15	05/28/15	05/28/15	05/28/15	05/28/15
RECEIVED DATE:		05/28/15	05/28/15	05/28/15	05/28/15	05/28/15	05/28/15
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]	109%	109%	97.8%	95.8%	96.0%	96.4%

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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VELAP ID 460040

Project: RF-096

Project Number: 05-056-RF96
Project Manager: Jeffery Stein
Report Issued: 06/08/15 10:26

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

CLIENT SAMPLE ID:		MW-14	MW-13	MW-10	MW-12	MW-11	MW-2
LAB SAMPLE ID:		5052813-07	5052813-08	5052813-09	5052813-10	5052813-11	5052813-12
SAMPLE DATE:		05/28/15	05/28/15	05/28/15	05/28/15	05/28/15	05/28/15
RECEIVED DATE:		05/28/15	05/28/15	05/28/15	05/28/15	05/28/15	05/28/15
MATRIX	Units	Water	Water	Water	Water	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)							
Toluene-d8	[surr]	98.5%	97.9%	97.9%	98.1%	98.2%	97.7%
4-Bromofluorobenzene	[surr]	95.1%	96.5%	92.3%	94.3%	93.9%	92.8%
GASOLINE RANGE ORGANICS BY EPA 8015B (Water)							
Gasoline-Range Organics	ug/L	<100	<100	<100	<100	<100	<100
a,a,a-Trifluorotoluene	[surr]	100%	100%	100%	100%	101%	100%
DIESEL RANGE ORGANICS BY EPA 3510/8015B (Water)							
Diesel-Range Organics	mg/L	<0.19	<0.21	<0.19	<0.20	<0.21	<0.19
o-Terphenyl	[surr]	83.7%	90.4%	89.1%	102%	78.7%	75.3%
Metals (Water)							
Iron	mg/L					**0.202**	
Wet Chemistry (Water)							
Nitrite (as N)	mg/L					<0.2	
Nitrate (as N)	mg/L					<0.2	
Sulfate	mg/L					**12.6**	
Kjeldahl Nitrogen	mg/L					<0.4	

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

Project Number: 05-056-RF96
Project Manager: Jeffery Stein
Report Issued: 06/08/15 10:26

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

CLIENT SAMPLE ID:		MW-9	MW-8
LAB SAMPLE ID:		5052813-13	5052813-14
SAMPLE DATE:		05/28/15	05/28/15
RECEIVED DATE:		05/28/15	05/28/15
MATRIX	Units	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (Water)			
Acetone	ug/L	**183**	<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	<2.0	<2.0
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).

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: Jeffery Stein
Report Issued: 06/08/15 10:26

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

CLIENT SAMPLE ID:		MW-9	MW-8
LAB SAMPLE ID:		5052813-13	5052813-14
SAMPLE DATE:		05/28/15	05/28/15
RECEIVED DATE:		05/28/15	05/28/15
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	**3.8 [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	**3.6 [1]**	<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	<2.0	<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	**3.0 [1]**	<2.0
1,3,5-Trimethylbenzene	ug/L	<2.0	<2.0
Vinyl chloride	ug/L	<2.0	<2.0
o-Xylene	ug/L	**6.9**	<2.0
m- & p-Xylenes	ug/L	**7.6**	<2.0
1,2-Dichloroethane-d4	[surr]	97.1%	95.5%

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: Jeffery Stein
Report Issued: 06/08/15 10:26

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

CLIENT SAMPLE ID:		MW-9	MW-8
LAB SAMPLE ID:		5052813-13	5052813-14
SAMPLE DATE:		05/28/15	05/28/15
RECEIVED DATE:		05/28/15	05/28/15
MATRIX	Units	Water	Water
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)			
Toluene-d8	[surr]	97.1%	96.6%
4-Bromofluorobenzene	[surr]	95.6%	91.8%
GASOLINE RANGE ORGANICS BY EPA 8015B (Water)			
Gasoline-Range Organics	ug/L	<100	<100
a,a,a-Trifluorotoluene	[surr]	101%	101%
DIESEL RANGE ORGANICS BY EPA 3510/8015B (Water)			
Diesel-Range Organics	mg/L	**2.57**	<0.20
o-Terphenyl	[surr]	112%	80.3%
Metals (Water)			
Iron	mg/L	**13.4**	<0.050
Wet Chemistry (Water)			
Nitrite (as N)	mg/L	<0.2	<0.2
Nitrate (as N)	mg/L	<0.2	**1.3**
Sulfate	mg/L	**67.1**	**77.4**
Kjeldahl Nitrogen	mg/L	**2.0**	**0.4**

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

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

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)

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	TPH DRO/GRO 8015	VOCs 8260	Sulfate	Sulfite	Nitrogen	Dissolved Iron* 6020	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	5/28/15	13:25	X			2	X	X					1+1HCL		5052813-01
MW-15		13:30				2							1+1HCL		-02
MW-6		12:28				6			X	X	X	X	1+1HCL/-		-03
MW-5		13:34				2							1+1HCL		-04
MW-4		13:38													-05
MW-1R		13:42													-06
MW-14		13:43													-07
MW-13		13:54													-08
MW-10		13:57													-09
MW-12		14:00													-10

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
(Printed) Stephen Dessel	5/28/15 16:42	(Printed) Andrew Boecker	(Printed)		(Printed)
Relinquished by: (Signature) (Printed)	Date/Time	Received by Lab: (Signature) (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: 2.0 °C
- X Received on Ice
- X Received same day
- ☐ Preservation Appropriate

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

Special Instructions/QC Requirements & Comments:
*Dissolved iron sample to be filtered by lab

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

MSS-F001-03/13

Company Name: AEC	Project Manager: J. Stein
Project Name: RF-96	Project ID: 05-056-RF96
Sampler(s): SDessel/R.Swaninger	P.O. Number: 05-056-RF96

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)

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	TPH DRO/GRO 8015	VOCs 8260	Sulfate	Sulfite	Nitrogen	Dissolved Iron* 6020	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-11	5/28/15	12:53	X			6	X	X	X	X	X	X	1+1HCL/-		5052813-11
MW-2		14:09				2							1+1HCL		-12
MW-9		13:02				6			X	X	X	X	1+1HCL/-		-13
MW-8		13:11				6			X	X	X	X	1+1HCL/-		-14

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
(Printed) Stephen Dessel	5/28/15 16:42	(Printed) Andrew Boecker	(Printed)		(Printed)
Relinquished by: (Signature) (Printed)	Date/Time	Received by Lab: (Signature) (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: 2.0 °C
- X Received on Ice
- X Received same day
- ☐ Preservation Appropriate

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

Special Instructions/QC Requirements & Comments:
*Dissolved iron samples to be filtered by lab

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

MSS-F001-03/13

Maryland spectral Services

Analytical Chemistry Services

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

Analytical Results

Project: RF-096

Project Number: 05-056-RF96

Project Manager: James Wolf

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

Report Issued: 06/10/15 13:09

CLIENT SAMPLE ID:		MW-6	MW-8	MW-9	MW-11
LAB SAMPLE ID:		5052921-01	5052921-02	5052921-03	5052921-04
SAMPLE DATE:		05/29/15	05/29/15	05/29/15	05/29/15
RECEIVED DATE:		05/29/15	05/29/15	05/29/15	05/29/15
MATRIX	Units	Water	Water	Water	Water
Wet Chemistry (Water)					
Sulfite	mg/L	<2.0	<2.0	<2.0	<2.0

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

391665

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: RF-96

Project ID: 05-056-RF96

Sampler(s): S. Dessel, R. Swaringer

P.O. Number:

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	Sulfate	Sulfites	Nitrate	Dissolved Iron 6020	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-6	5/28/15	12:28	X			2	X	X	X	X			
MW-8	↓	12:11	X			2	X	X	X	X			
MW-9		13:02	X			2	X	X	X	X			
MW-11		12:53	X			2	X	X	X	X			

Relinquished by: (Signature) [signature] (Printed) Robert Swaringer — Date/Time 1641 5/28/15

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

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

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

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

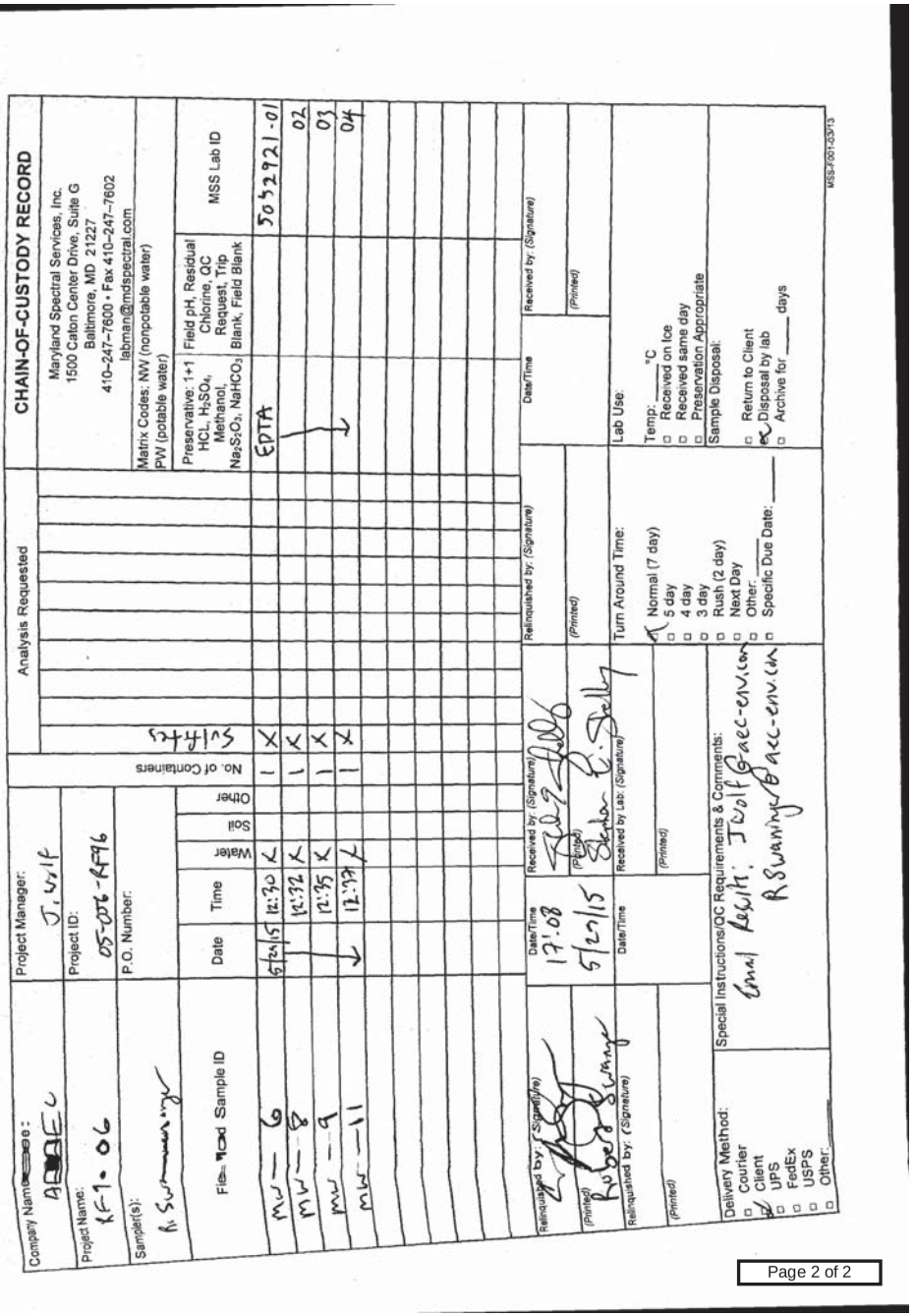
Special Instructions/QC Requirements & Comments:
* Dissolved Iron to be lab filtered
Email Results: J Wolf@aec-env.com
R Swaringer@aec-env.com

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

Lab Use:
Temp: 9.2 °C
- ☐ Received on Ice
- ☐ Received same day
- ☐ Preservation Appropriate

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

MSS-F001-03/13



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: ADEC
Project Name: RF-1-06
Sampler(s): R. Swanner
Project Manager: J. Wolf
Project ID: 05-056-RF96
P.O. Number:

File Name	Sample ID	Date	Time	Water	Soil	Other	No. of Containers	Sulfate	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-6		5/21/15	12:30	X			1	X	EDTA		5062921-01
MW-8			12:32	X			1	X			02
MW-9			12:35	X			1	X			03
MW-11			12:37	X			1	X			04

Analysis Requested

Relinquished by: (Signature) Roger Swanner (Printed) Date/Time 5/21/15 17:08
Received by: (Signature) (Printed) Date/Time
Relinquished by: (Signature) (Printed) Date/Time
Received by Lab: (Signature) Stephen E. Kelly (Printed) Date/Time
Relinquished by: (Signature) (Printed) Date/Time
Received by: (Signature) (Printed) Date/Time

Special Instructions/QC Requirements & Comments:
Email Results: JWolf@aec-env.com
RSwanner@aec-env.com

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

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

Lab Use:
Temp: ____ °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

nelac

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: 06/29/15 10:36

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

CLIENT SAMPLE ID:		RW-13
LAB SAMPLE ID:		5062306-01
SAMPLE DATE:		06/23/15
RECEIVED DATE:		06/23/15
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.

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: 06/29/15 10:36

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

CLIENT SAMPLE ID:		RW-13
LAB SAMPLE ID:		5062306-01
SAMPLE DATE:		06/23/15
RECEIVED DATE:		06/23/15
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	**2.3 [1]**
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]	89.7%

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: 06/29/15 10:36

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

CLIENT SAMPLE ID:		RW-13
LAB SAMPLE ID:		5062306-01
SAMPLE DATE:		06/23/15
RECEIVED DATE:		06/23/15
MATRIX	Units	Water

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

Toluene-d8	[surr]	96.8%
4-Bromofluorobenzene	[surr]	98.8%

GASOLINE RANGE ORGANICS BY EPA 8015B (Water)

Gasoline-Range Organics	ug/L	<100
a,a,a-Trifluorotoluene	[surr]	101%

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

Diesel-Range Organics	mg/L	**0.20**
o-Terphenyl	[surr]	85.3%

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

CHAIN-OF-CUSTODY RECORD

Company Name: AEC

Project Manager: J. Wolf

Project Name: 05-056-RF96

Project ID: 05-056-RF96

Sampler(s): R. Swanigan

P.O. Number: 05-056-RF96

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 (non-potable water) PW (potable water)

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	VOCs 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
RW-13	6/23/15	13:40	X			3	X	X	1+1 HCL		5062306-01
DUPE	↓	13:45	X			3	X	X	↓		02

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
(Printed) Rubab Swanigan	15:31 6/23/14	(Printed) Adrian Mbeka	(Printed)		(Printed)
Relinquished by: (Signature) (Printed)	Date/Time	Received by Lab: (Signature) (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: 1.6 °C
- ☑ Received on Ice
- ☑ Received same day
- ☐ Preservation Appropriate

Delivery Method:
- ☐ Courier
- ☑ Client
- ☐ UPS
- ☐ FedEx
- ☐ USPS
- ☐ Other: _____

Special Instructions/QC Requirements & Comments:
Email Results: J Wolf
R Swanigan

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

MSS-F001-002

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: 04/10/15 10:16

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

CLIENT SAMPLE ID:		96 SYS-EFF	96 SYS-MID 2	96 SYS-MID 1	96 SYS-IN
LAB SAMPLE ID:		5040109-01	5040109-02	5040109-03	5040109-04
SAMPLE DATE:		04/01/15	04/01/15	04/01/15	04/01/15
RECEIVED DATE:		04/01/15	04/01/15	04/01/15	04/01/15
MATRIX	Units	Water	Water	Water	Water
VOLATILE ORGANICS (MBTEXN+) BY EPA METHOD 8260B (GC/MS) (Water)					
Benzene	ug/L	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0
Methyl tert-butyl ether (MTBE)	ug/L	<2.0	<2.0	<2.0	<2.0
Naphthalene	ug/L	<2.0	<2.0	<2.0	<2.0
Toluene	ug/L	<2.0	<2.0	<2.0	<2.0
o-Xylene	ug/L	<2.0	<2.0	<2.0	<2.0
m- & p-Xylenes	ug/L	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane-d4	[surr]	102%	103%	104%	104%
Toluene-d8	[surr]	98.9%	96.6%	98.0%	97.9%
4-Bromofluorobenzene	[surr]	87.5%	86.9%	88.0%	86.3%
GASOLINE RANGE ORGANICS BY EPA 8015B (Water)					
Gasoline-Range Organics	ug/L	<100	<100	<100	<100
a,a,a-Trifluorotoluene	[surr]	102%	103%	102%	102%

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

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	BTEX/MTBE/Naphthalene 8260	TPH GRO 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
96SYS-EFF	4/1/15	11:40	X			2	X	X	1+1 HCL		5040109-01
96SYS-MID 2	—	11:45	—				—	—			-02
96SYS-MID 1	—	11:50	—				—	—			-03
96SYS-IN	—	11:55	—				—	—			-04

Analysis Requested

Relinquished by: (Signature) Stephen Dessel — Date/Time 4/1/15 15:09 — Received by: (Signature) Maren Hamm
(Printed) Stephen Dessel — (Printed) Noreen Hamm
Relinquished by: (Signature) — Date/Time — Received by Lab: (Signature)
(Printed) — (Printed)

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

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

Special Instructions/QC Requirements & Comments:
Results to: jstein jwolf arobins
rswanager 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: 6.2 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

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: 04/21/15 11:21

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

CLIENT SAMPLE ID:		96 SYS-EFF	96 VAPOR-EFF
LAB SAMPLE ID:		5041607-01	5041607-02
SAMPLE DATE:		04/16/15	04/16/15
RECEIVED DATE:		04/16/15	04/16/15
MATRIX	Units	Water	Vapor

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

Benzene	ug/L	<2.0	
Ethylbenzene	ug/L	<2.0	
Methyl tert-butyl ether (MTBE)	ug/L	<2.0	
Naphthalene	ug/L	<2.0	
Toluene	ug/L	<2.0	
o-Xylene	ug/L	<2.0	
m- & p-Xylenes	ug/L	<2.0	
1,2-Dichloroethane-d4	[surr]	98.9%	
Toluene-d8	[surr]	97.5%	
4-Bromofluorobenzene	[surr]	91.0%	

GASOLINE RANGE ORGANICS BY EPA 8015B (Water)

Gasoline-Range Organics	ug/L	<100	
a,a,a-Trifluorotoluene	[surr]	101%	

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

Acetone	ppmv		<0.421
tert-Amyl alcohol (TAA)	ppmv		<0.555
tert-Amyl ethyl ether (TAEE)	ppmv		<0.105
tert-Amyl methyl ether (TAME)	ppmv		<0.0479
Benzene	ppmv		<0.0626
Bromobenzene	ppmv		<0.0489
Bromochloromethane	ppmv		<0.0378
Bromodichloromethane	ppmv		<0.0298
Bromoform	ppmv		<0.0193
Bromomethane	ppmv		<0.0515
tert-Butanol (TBA)	ppmv		<0.495
2-Butanone (MEK)	ppmv		<0.339
n-Butylbenzene	ppmv		<0.0364
sec-Butylbenzene	ppmv		<0.0364
tert-Butylbenzene	ppmv		<0.0364
Carbon disulfide	ppmv		<0.0642
Carbon tetrachloride	ppmv		<0.0318
Chlorobenzene	ppmv		<0.0434
Chloroethane	ppmv		<0.0758
Chloroform	ppmv		<0.0410
Chloromethane	ppmv		<0.0969
2-Chlorotoluene	ppmv		<0.0386

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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: RF-096

Project Number: 05-056-RF96

Project Manager: James Wolf

Report Issued: 04/21/15 11:21

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

CLIENT SAMPLE ID:		96 SYS-EFF	96 VAPOR-EFF
LAB SAMPLE ID:		5041607-01	5041607-02
SAMPLE DATE:		04/16/15	04/16/15
RECEIVED DATE:		04/16/15	04/16/15
MATRIX	Units	Water	Vapor

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

4-Chlorotoluene	ppmv		<0.0489
1,2-Dibromo-3-chloropropane	ppmv		<0.0209
Dibromochloromethane	ppmv		<0.0235
1,2-Dibromoethane (EDB)	ppmv		<0.0260
Dibromomethane	ppmv		<0.0281
1,2-Dichlorobenzene	ppmv		<0.0333
1,3-Dichlorobenzene	ppmv		<0.0333
1,4-Dichlorobenzene	ppmv		<0.0333
Dichlorodifluoromethane	ppmv		<0.0404
1,1-Dichloroethane	ppmv		<0.0494
1,2-Dichloroethane	ppmv		<0.0494
1,1-Dichloroethene	ppmv		<0.0504
cis-1,2-Dichloroethene	ppmv		<0.0505
trans-1,2-Dichloroethene	ppmv		<0.0504
Dichlorofluoromethane	ppmv		<0.0566
1,2-Dichloropropane	ppmv		<0.0433
1,3-Dichloropropane	ppmv		<0.0489
2,2-Dichloropropane	ppmv		<0.0489
1,1-Dichloropropene	ppmv		<0.0441
cis-1,3-Dichloropropene	ppmv		<0.0441
trans-1,3-Dichloropropene	ppmv		<0.0441
Diisopropyl ether (DIPE)	ppmv		<0.0479
Ethyl tert-butyl ether (ETBE)	ppmv		<0.0479
Ethylbenzene	ppmv		<0.0461
Hexachlorobutadiene	ppmv		<0.0188
2-Hexanone	ppmv		<0.244
Isopropylbenzene (Cumene)	ppmv		<0.0407
4-Isopropyltoluene	ppmv		<0.0364
Methyl tert-butyl ether (MTBE)	ppmv		<0.0555
4-Methyl-2-pentanone	ppmv		<0.244
Methylene chloride	ppmv		<0.288
Naphthalene	ppmv		<0.0382
n-Propylbenzene	ppmv		<0.0407
Styrene	ppmv		<0.0470
1,1,1,2-Tetrachloroethane	ppmv		<0.0291
1,1,2,2-Tetrachloroethane	ppmv		<0.0291

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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: RF-096

Project Number: 05-056-RF96

Project Manager: James Wolf

Report Issued: 04/21/15 11:21

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

CLIENT SAMPLE ID:		96 SYS-EFF	96 VAPOR-EFF
LAB SAMPLE ID:		5041607-01	5041607-02
SAMPLE DATE:		04/16/15	04/16/15
RECEIVED DATE:		04/16/15	04/16/15
MATRIX	Units	Water	Vapor

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

Tetrachloroethene	ppmv		<0.0295
Toluene	ppmv		<0.0531
1,2,3-Trichlorobenzene	ppmv		<0.0269
1,2,4-Trichlorobenzene	ppmv		<0.0269
1,1,1-Trichloroethane	ppmv		<0.0367
1,1,2-Trichloroethane	ppmv		<0.0367
Trichloroethene	ppmv		<0.0372
Trichlorofluoromethane (Freon 11)	ppmv		<0.0356
1,2,3-Trichloropropane	ppmv		<0.0332
1,2,4-Trimethylbenzene	ppmv		<0.0407
1,3,5-Trimethylbenzene	ppmv		<0.0407
Vinyl chloride	ppmv		<0.0782
o-Xylene	ppmv		<0.0461
m- & p-Xylenes	ppmv		<0.0460
1,2-Dichloroethane-d4	[surr]		100%
Toluene-d8	[surr]		97.6%
4-Bromofluorobenzene	[surr]		92.2%

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

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

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	BTEX/MTBE Naphthalene 8260	TPH GRO 8015	VOCs 8260	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
96SYS-EFF	4/16/15	10:30	W			2	X	X		HCL		5041607-01 A B
96VAPOR-EFF	4/16/15	10:45			X	1			X	—		5041607-02 A

Analysis Requested

Relinquished by: (Signature) — Date/Time: 4/16/15 3:02 — (Printed): James Wolf
Received by: (Signature) — (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) — (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: 8.8 °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:

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: 05/04/15 10:04

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

CLIENT SAMPLE ID:		96 SYS-EFF
LAB SAMPLE ID:		5042903-01
SAMPLE DATE:		04/29/15
RECEIVED DATE:		04/29/15
MATRIX	Units	Water

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

Benzene	ug/L	<2.0
Ethylbenzene	ug/L	<2.0
Methyl tert-butyl ether (MTBE)	ug/L	<2.0
Naphthalene	ug/L	<2.0
Toluene	ug/L	<2.0
o-Xylene	ug/L	<2.0
m- & p-Xylenes	ug/L	<2.0
1,2-Dichloroethane-d4	[surr]	98.3%
Toluene-d8	[surr]	97.2%
4-Bromofluorobenzene	[surr]	88.7%

GASOLINE RANGE ORGANICS BY EPA 8015B (Water)

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

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:

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

Analysis Requested: BTEX/MTBE/Naphthalene, TPH-GRO 8015

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	BTEX/MTBE/Naphthalene	TPH-GRO 8015	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
96 Sys-Eff	4/29/15	10:00	X			2	X	X	1+1 HCL	5042903-01

Relinquished by: (Signature) R. Swanger (Printed) Rubert Swanger — Date/Time 4/29/15 12:15
Received by: (Signature) Andrew Boecker (Printed) Andrew Boecker
Relinquished by: (Signature) (Printed) — Date/Time
Received by Lab: (Signature) (Printed)
Relinquished by: (Signature) (Printed) — Date/Time
Received by: (Signature) (Printed)

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

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

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

Lab Use:
Temp: 8.2 °C
☑ Received on Ice
☑ Received same day
☑ Preservation Appropriate

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

MSS-F001-03/13

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: 05/20/15 15:26

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

CLIENT SAMPLE ID:		96 SYS-EFF	96 SYS-MID 2	96 SYS-MID 1	96 SYS-IN	96 SYS-VAPOR
LAB SAMPLE ID:		5051312-01	5051312-02	5051312-03	5051312-04	5051312-05
SAMPLE DATE:		05/13/15	05/13/15	05/13/15	05/13/15	05/13/15
RECEIVED DATE:		05/13/15	05/13/15	05/13/15	05/13/15	05/13/15
MATRIX	Units	Water	Water	Water	Water	Vapor
VOLATILE ORGANICS (MBTEXN+) BY EPA METHOD 8260B (GC/MS) (Water)						
Benzene	ug/L	<2.0	<2.0	<2.0	<2.0	
Ethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	
Methyl tert-butyl ether (MTBE)	ug/L	<2.0	<2.0	<2.0	<2.0	
Naphthalene	ug/L	<2.0	<2.0	<2.0	<2.0	
Toluene	ug/L	<2.0	<2.0	<2.0	<2.0	
o-Xylene	ug/L	<2.0	<2.0	<2.0	<2.0	
m- & p-Xylenes	ug/L	<2.0	<2.0	<2.0	<2.0	
1,2-Dichloroethane-d4	[surr]	99.7%	98.1%	99.3%	99.3%	
Toluene-d8	[surr]	99.8%	101%	99.0%	99.8%	
4-Bromofluorobenzene	[surr]	92.3%	91.4%	89.6%	89.2%	
GASOLINE RANGE ORGANICS BY EPA 8015B (Water)						
Gasoline-Range Organics	ug/L	<100	<100	<100	<100	
a,a,a-Trifluorotoluene	[surr]	101%	100%	101%	100%	
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (Vapor)						
Acetone	ppmv					<0.421
tert-Amyl alcohol (TAA)	ppmv					<0.555
tert-Amyl ethyl ether (TAEE)	ppmv					<0.105
tert-Amyl methyl ether (TAME)	ppmv					<0.0479
Benzene	ppmv					<0.0626
Bromobenzene	ppmv					<0.0489
Bromochloromethane	ppmv					<0.0378
Bromodichloromethane	ppmv					<0.0298
Bromoform	ppmv					<0.0193
Bromomethane	ppmv					<0.0515
tert-Butanol (TBA)	ppmv					<0.495
2-Butanone (MEK)	ppmv					<0.339
n-Butylbenzene	ppmv					<0.0364
sec-Butylbenzene	ppmv					<0.0364
tert-Butylbenzene	ppmv					<0.0364
Carbon disulfide	ppmv					<0.0642
Carbon tetrachloride	ppmv					<0.0318
Chlorobenzene	ppmv					<0.0434
Chloroethane	ppmv					<0.0758
Chloroform	ppmv					<0.0410
Chloromethane	ppmv					<0.0969
2-Chlorotoluene	ppmv					<0.0386

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: 05/20/15 15:26

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

CLIENT SAMPLE ID:		96 SYS-EFF	96 SYS-MID 2	96 SYS-MID 1	96 SYS-IN	96 SYS-VAPOR
LAB SAMPLE ID:		5051312-01	5051312-02	5051312-03	5051312-04	5051312-05
SAMPLE DATE:		05/13/15	05/13/15	05/13/15	05/13/15	05/13/15
RECEIVED DATE:		05/13/15	05/13/15	05/13/15	05/13/15	05/13/15
MATRIX	Units	Water	Water	Water	Water	Vapor
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)						
4-Chlorotoluene	ppmv					<0.0489
1,2-Dibromo-3-chloropropane	ppmv					<0.0209
Dibromochloromethane	ppmv					<0.0235
1,2-Dibromoethane (EDB)	ppmv					<0.0260
Dibromomethane	ppmv					<0.0281
1,2-Dichlorobenzene	ppmv					<0.0333
1,3-Dichlorobenzene	ppmv					<0.0333
1,4-Dichlorobenzene	ppmv					<0.0333
Dichlorodifluoromethane	ppmv					<0.0404
1,1-Dichloroethane	ppmv					<0.0494
1,2-Dichloroethane	ppmv					<0.0494
1,1-Dichloroethene	ppmv					<0.0504
cis-1,2-Dichloroethene	ppmv					<0.0505
trans-1,2-Dichloroethene	ppmv					<0.0504
Dichlorofluoromethane	ppmv					<0.0566
1,2-Dichloropropane	ppmv					<0.0433
1,3-Dichloropropane	ppmv					<0.0489
2,2-Dichloropropane	ppmv					<0.0489
1,1-Dichloropropene	ppmv					<0.0441
cis-1,3-Dichloropropene	ppmv					<0.0441
trans-1,3-Dichloropropene	ppmv					<0.0441
Diisopropyl ether (DIPE)	ppmv					<0.0479
Ethyl tert-butyl ether (ETBE)	ppmv					<0.0479
Ethylbenzene	ppmv					<0.0461
Hexachlorobutadiene	ppmv					<0.0188
2-Hexanone	ppmv					<0.244
Isopropylbenzene (Cumene)	ppmv					<0.0407
4-Isopropyltoluene	ppmv					<0.0364
Methyl tert-butyl ether (MTBE)	ppmv					<0.0555
4-Methyl-2-pentanone	ppmv					<0.244
Methylene chloride	ppmv					<0.288
Naphthalene	ppmv					<0.0382
n-Propylbenzene	ppmv					<0.0407
Styrene	ppmv					<0.0470
1,1,1,2-Tetrachloroethane	ppmv					<0.0291
1,1,2,2-Tetrachloroethane	ppmv					<0.0291

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: 05/20/15 15:26

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

CLIENT SAMPLE ID:		96 SYS-EFF	96 SYS-MID 2	96 SYS-MID 1	96 SYS-IN	96 SYS-VAPOR
LAB SAMPLE ID:		5051312-01	5051312-02	5051312-03	5051312-04	5051312-05
SAMPLE DATE:		05/13/15	05/13/15	05/13/15	05/13/15	05/13/15
RECEIVED DATE:		05/13/15	05/13/15	05/13/15	05/13/15	05/13/15
MATRIX	Units	Water	Water	Water	Water	Vapor

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

Tetrachloroethene	ppmv	<0.0295
Toluene	ppmv	**0.148**
1,2,3-Trichlorobenzene	ppmv	<0.0269
1,2,4-Trichlorobenzene	ppmv	<0.0269
1,1,1-Trichloroethane	ppmv	<0.0367
1,1,2-Trichloroethane	ppmv	<0.0367
Trichloroethene	ppmv	<0.0372
Trichlorofluoromethane (Freon 11)	ppmv	<0.0356
1,2,3-Trichloropropane	ppmv	<0.0332
1,2,4-Trimethylbenzene	ppmv	**0.0777 [1]**
1,3,5-Trimethylbenzene	ppmv	**0.0450 [1]**
Vinyl chloride	ppmv	<0.0782
o-Xylene	ppmv	**0.100 [1]**
m- & p-Xylenes	ppmv	**0.245**
1,2-Dichloroethane-d4	[surr]	93.0%
Toluene-d8	[surr]	100%
4-Bromofluorobenzene	[surr]	96.2%

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-RF-96
P.O. Number: 05-056-RF96

Analysis Requested: BTEX/MTBE/Naph 8260; TPH GRO 8015; VOCs 8260

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	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
96Sys-Eff	5/13/15	10:45	X				1+1 HCL	5051312-01
96Sys-Mid 2		10:50						-02
96Sys-Mid 1		10:55						-03
96Sys-In		11:00						-04
96Sys-Vapor		10:35			X	X		-05

Relinquished by: (Signature) Stephen Dessel (Printed) Date/Time 5/13/15 14:34 — Received by: (Signature) Andrew Beecker (Printed) — 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:

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

Lab Use: Temp 5.2 °C ☒ Received on Ice ☒ Received same day ☒ Preservation Appropriate

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

MSS-F-001-03/13

Attachment E

July 9, 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 June 10, 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: 06/15/15 11:22

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

CLIENT SAMPLE ID:		PW-10 MONTGOMERY
LAB SAMPLE ID:		5061013-01
SAMPLE DATE:		06/10/15
RECEIVED DATE:		06/10/15
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: 06/15/15 11:22

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

CLIENT SAMPLE ID:		PW-10 MONTGOMERY
LAB SAMPLE ID:		5061013-01
SAMPLE DATE:		06/10/15
RECEIVED DATE:		06/10/15
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]	96.0%

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, $Na_2S_2O_3$, $NaHCO_3$

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

MSS Lab ID: 5061013-01

Company Name: AEC

Project Name: 10 Montgomery

Sampler(s): R. Swaringer

Project Manager: J. Wolf

Project ID: 05-056-RF-96

P.O. Number: 05-056-RF96

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	Analysis Requested: VOCs + Oxy 524.2
PW - 10 Montgomery	6/10/15	10:30	PW			2	X

Relinquished by: (Signature) C. Payne — Date/Time 1745 — Received by: (Signature) — Relinquished by: (Signature) — Date/Time — Received by: (Signature)

(Printed) Robert Swaringer — 6/10/15 — (Printed) — (Printed) — (Printed)

Relinquished by: (Signature) — Date/Time 1745 — Received by Lab: (Signature) Hannah Kosier — Turn Around Time: ☒ Normal (7 day) ☐ 5 day ☐ 4 day ☐ 3 day ☐ Rush (2 day) ☐ Next Day ☐ Other: ☐ Specific Due Date: ____

(Printed) — 6/10 — (Printed) Hannah Kosier

Lab Use: Temp: 12.6°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: Email Results: J Wolf, R Swaringer

MSS-F001-03/13

July 9, 2015

Occupant
463 Mechanics Valley Road
North East, MD 21901

Re: **Supply Well Sampling**

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 June 10, 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.

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: **463 Mechanics Valley Rd**

Project Number: 05-056RF96
Project Manager: James Wolf
Report Issued: 06/15/15 11:24

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

CLIENT SAMPLE ID:		PW-463 MECHANICS
LAB SAMPLE ID:		5061014-01
SAMPLE DATE:		06/10/15
RECEIVED DATE:		06/10/15
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: 463 Mechanics Valley Rd

Project Number: 05-056RF96

Project Manager: James Wolf

Report Issued: 06/15/15 11:24

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

CLIENT SAMPLE ID:		PW-463 MECHANICS
LAB SAMPLE ID:		5061014-01
SAMPLE DATE:		06/10/15
RECEIVED DATE:		06/10/15
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	**1.27**
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]	94.0%

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: 463 Mechanics Valley
Sampler(s): R. Swaringer
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	Analysis Requested: VOCs + Oxy 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-463 Mechanics	6/10/15	10:40	NW			2	X	HCL		5061014-01

Relinquished by: (Signature) — Date/Time: 17:45 6/10 — Received by: (Signature)
(Printed) Robert Swaringer
Relinquished by: (Signature) — Date/Time: 17:45 6/10 — Received by Lab: (Signature)
(Printed) Hannah Koster
Relinquished by: (Signature) — Date/Time — Received by: (Signature)
(Printed)

Special Instructions/QC Requirements & Comments:
Email results. J Wolf
R Swaringer

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

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

Lab Use:
Temp: 12.6C
☒ Received on Ice
☒ Received same day
☒ Preservation Appropriate

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

MSS-F001-03/13

Advantage Environmental Consultants, LLC

July 9, 2015

Occupant (475 Mechanic Valley Road)
P.O. Box 122
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 June 10, 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: 06/15/15 11:26

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

CLIENT SAMPLE ID:		PW-475 MECHANICS
LAB SAMPLE ID:		5061016-01
SAMPLE DATE:		06/10/15
RECEIVED DATE:		06/10/15
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: 06/15/15 11:26

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

CLIENT SAMPLE ID:		PW-475 MECHANICS
LAB SAMPLE ID:		5061016-01
SAMPLE DATE:		06/10/15
RECEIVED DATE:		06/10/15
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	**3.35**
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]	83.0%
1,2-Dichlorobenzene-d4	[surr]	102%

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: 475 Mechanics
Project ID: 05-056-RF96
Sampler(s): R. Sivanmy
P.O. Number: 05-056-RF96

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	Analysis Requested: VOCs + Oxy 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 Mechanics	6/10/15	10:50	PW			2	X	1+1 HCL		5061016-01

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
(Printed) Robert Sivanmy	6/10/15 1745	(Printed)		(Printed)		(Printed)

Relinquished by: (Signature)	Date/Time	Received by Lab: (Signature)
(Printed)	6/10 1745	(Printed) Hannah Rosier

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

Lab Use:
Temp: 12.6°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:
Email Results: J Wolf
R Sivanmy

MSS-F001-03/13

July 9, 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 June 10, 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: 06/15/15 11:25

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

CLIENT SAMPLE ID:		PW-487 MECHANICS
LAB SAMPLE ID:		5061015-01
SAMPLE DATE:		06/10/15
RECEIVED DATE:		06/10/15
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: 06/15/15 11:25

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

CLIENT SAMPLE ID:		PW-487 MECHANICS
LAB SAMPLE ID:		5061015-01
SAMPLE DATE:		06/10/15
RECEIVED DATE:		06/10/15
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]	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

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

Company Name: AEC
Project Manager: J Wolf
Project Name: 487 Mechanics
Project ID: 05-056-RF96
Sampler(s): R. Swanner
P.O. Number: 05-056-RF96

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	Analysis Requested: VOCs + Opt 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-487 Mechanics	6/10/15	11:00	PW			2	X	1+1 HCL		5061015-01

Relinquished by: (Signature) — Date/Time: 1745 6/10/15 — Received by: (Signature)
(Printed): Robert Swanner — (Printed)

Relinquished by: (Signature) — Date/Time: 1745 6/10 — Received by Lab: (Signature)
(Printed): Hannah Rosier

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

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

Special Instructions/QC Requirements & Comments: Email Results! J Wolf R Swanner

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

Lab Use: Temp: 12.6°C ☒ Received on Ice ☒ Received same day ☒ Preservation Appropriate

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

MSS-F001-03/13

July 9, 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 June 23, 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) and tert-Butanol (TBA). MTBE and TBA are fuel oxygenates formerly used in gasoline. There is no regulatory standard regarding TBA. 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

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: 06/25/15 12:10

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

CLIENT SAMPLE ID:		PW-493
LAB SAMPLE ID:		5062307-01
SAMPLE DATE:		06/23/15
RECEIVED DATE:		06/23/15
MATRIX	Units	Water

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

tert-Amyl alcohol (TAA)	ug/L	**10.6**
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	**10.2**
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: 05-056-RF96

Project Number: N/A

Project Manager: James Wolf

Report Issued: 06/25/15 12:10

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

CLIENT SAMPLE ID:		PW-493
LAB SAMPLE ID:		5062307-01
SAMPLE DATE:		06/23/15
RECEIVED DATE:		06/23/15
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	**8.22**
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]	86.0%
1,2-Dichlorobenzene-d4	[surr]	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 (non-potable water) PW (potable water)

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

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	VOC, 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-493	6/23/15	14:00	PW			2	X	1+1 HCL	5062307-01

Analysis Requested

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
A. Rodgers (Printed) Robert Swaney	15:32 6/23/15	Alli Moran (Printed) Adrian Mabelica	(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: 12.6 °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:
Email results: RSwaney
J Wolf

MSS-F001-002

Advantage Environmental Consultants, LLC

July 9, 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 June 10, 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

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: **505 Mechanics Valley Rd**

Project Number: 05-056RF96
Project Manager: James Wolf
Report Issued: 06/15/15 11:29

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

CLIENT SAMPLE ID:		PW 505 EFF	PW 505 MID-1	PW 505 INFLUENT
LAB SAMPLE ID:		5061018-01	5061018-02	5061018-03
SAMPLE DATE:		06/10/15	06/10/15	06/10/15
RECEIVED DATE:		06/10/15	06/10/15	06/10/15
MATRIX	Units	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	**45.4**
tert-Amyl methyl ether (TAME)	ug/L	<0.50	<0.50	**2.57**
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	**40.6**	**73.4**
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

1 = Result taken from alternate analysis

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: 06/15/15 11:29

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

CLIENT SAMPLE ID:		PW 505 EFF	PW 505 MID-1	PW 505 INFLUENT
LAB SAMPLE ID:		5061018-01	5061018-02	5061018-03
SAMPLE DATE:		06/10/15	06/10/15	06/10/15
RECEIVED DATE:		06/10/15	06/10/15	06/10/15
MATRIX	Units	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
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	**51.2 [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]	82.0%	83.0%	85.0%
1,2-Dichlorobenzene-d4	[surr]	94.0%	98.0%	95.0%

1 = Result taken from alternate analysis

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: AEL
Project Manager: J. Wolf
Project Name: 505 Mechanics
Project ID: 05-056-RF96
Sampler(s): R. Swanger
P.O. Number: 05-056-RF96

Analysis Requested: VOCs + 10% 524.2

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	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-505 Effluent	6/10/15	11:15	PW			2 X	1+1 HCL		5061018-01
PW-505 Mid-1	↓	11:20	↓			2 X	↓		-02
PW-505 Influent	↓	11:30	↓			2 X	↓		-03

Relinquished by: (Signature) — Date/Time: 6/10/15 1745 — (Printed): Robert Swanger
Received by: (Signature) — (Printed)
Relinquished by: (Signature) — Date/Time: 6/10/15 1745 — (Printed)
Received by Lab: (Signature) — Date/Time — (Printed): Hannah Rosier
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: Email Results: J Wolf, R Swanger

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

Lab Use: Temp: 12.6°C ☒ Received on Ice ☒ Received same day ☒ Preservation Appropriate

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

MSS-F001-03/13

July 9, 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 June 10, 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

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: **513 Mechanics Valley Rd**

Project Number: 05-056RF96
Project Manager: James Wolf
Report Issued: 06/15/15 11:28

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

CLIENT SAMPLE ID:		PW-513 MECHANICS
LAB SAMPLE ID:		5061017-01
SAMPLE DATE:		06/10/15
RECEIVED DATE:		06/10/15
MATRIX	Units	Water
VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (Water)		
tert-Amyl alcohol (TAA)	ug/L	**23.6**
tert-Amyl methyl ether (TAME)	ug/L	**0.71**
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	**38.1**
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: 06/15/15 11:28

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

CLIENT SAMPLE ID:		PW-513 MECHANICS
LAB SAMPLE ID:		5061017-01
SAMPLE DATE:		06/10/15
RECEIVED DATE:		06/10/15
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	**30.0**
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]	81.0%
1,2-Dichlorobenzene-d4	[surr]	93.0%

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 Manager: J Wolf
Project Name: 513 Mechanics
Project ID: 05-056-RF96
Sampler(s): R. Swaney
P.O. Number: 05-056-RF96

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 + 0/4 524.2

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 - 513 Mechanics	6/10/15	11:10	PW			2	1+1 HCL	5061017-01

Relinquished by: (Signature) — Date/Time: 1745 — (Printed): Robert Swaney

Received by: (Signature) — Date/Time: 6/10/15 — (Printed)

Relinquished by: (Signature) — Date/Time: 1745 — (Printed): 6/10

Received by Lab: (Signature) — (Printed): Hannah Rosier

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: Email results: J Wolf, R Swaney

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

Lab Use: Temp: 12.6°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: 4/1/2015
Time: 11:00
Recorded By: STD

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)	11,013.9
Electric (kw/h)	232,049

VE/GE System - Building Interior	
SVE Exhaust Temperature (°F)	75
AWS-1 Vacuum Pressure (inHg)	0.0
Dilution Valve (% open)	0%
Compressor Tank Pressure (psi)	135
Pressure to Wells (psi)	20
GW Return Pressure (psi)	0
Ambient Room Temperature (°F)	41
Sump Transfer Pump Pressure (psi)	48
Bag Filter Vessel Pressure (psi)	10
Carbon 1 Pressure (psi)	36
Carbon 2 Pressure (psi)	5
Flow Meter Totalizer Value (gallons)	6,506,800
Approximate Flow Rate (gal/min)	7.17

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

Date: 4/15/2015
Time: 9:00
Recorded By: JDW

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)	11,173.2
Electric (kw/h)	234,991

VE/GE System - Building Interior	
SVE Exhaust Temperature (°F)	135
AWS-1 Vacuum Pressure (inHg)	8.0
Dilution Valve (% open)	75%
Compressor Tank Pressure (psi)	105
Pressure to Wells (psi)	20
GW Return Pressure (psi)	0
Ambient Room Temperature (°F)	60
Sump Transfer Pump Pressure (psi)	50
Bag Filter Vessel Pressure (psi)	46
Carbon 1 Pressure (psi)	38
Carbon 2 Pressure (psi)	30
Flow Meter Totalizer Value (gallons)	6,569,600
Approximate Flow Rate (gal/min)	6.57

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

Date: 4/22/2015
Time: 10:00
Recorded By: STD

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)	11,173.2
Electric (kw/h)	237,542

VE/GE System - Building Interior	
SVE Exhaust Temperature (°F)	140
AWS-1 Vacuum Pressure (inHg)	7.0
Dilution Valve (% open)	100%
Compressor Tank Pressure (psi)	93
Pressure to Wells (psi)	18
GW Return Pressure (psi)	0
Ambient Room Temperature (°F)	75
Sump Transfer Pump Pressure (psi)	50
Bag Filter Vessel Pressure (psi)	50
Carbon 1 Pressure (psi)	16
Carbon 2 Pressure (psi)	40
Flow Meter Totalizer Value (gallons)	6,625,200
Approximate Flow Rate (gal/min)	5.51

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

Date: 4/29/2015
Time: 9:00
Recorded By: RS

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)	11,342.0
Electric (kw/h)	241,376

VE/GE System - Building Interior	
SVE Exhaust Temperature (°F)	160
AWS-1 Vacuum Pressure (inHg)	11.0
Dilution Valve (% open)	100%
Compressor Tank Pressure (psi)	100
Pressure to Wells (psi)	20
GW Return Pressure (psi)	0
Ambient Room Temperature (°F)	60
Sump Transfer Pump Pressure (psi)	43
Bag Filter Vessel Pressure (psi)	15
Carbon 1 Pressure (psi)	39
Carbon 2 Pressure (psi)	5
Flow Meter Totalizer Value (gallons)	6,732,865
Approximate Flow Rate (gal/min)	10.53

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

Date: 5/6/2015
Time: 9:30
Recorded By: RS

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)	11,342.0
Electric (kw/h)	242,434

VE/GE System - Building Interior	
SVE Exhaust Temperature (°F)	175
AWS-1 Vacuum Pressure (inHg)	7.0
Dilution Valve (% open)	100%
Compressor Tank Pressure (psi)	120
Pressure to Wells (psi)	20
GW Return Pressure (psi)	0
Ambient Room Temperature (°F)	60
Sump Transfer Pump Pressure (psi)	35
Bag Filter Vessel Pressure (psi)	10
Carbon 1 Pressure (psi)	30
Carbon 2 Pressure (psi)	10
Flow Meter Totalizer Value (gallons)	6,780,895
Approximate Flow Rate (gal/min)	4.86

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

Date: 5/13/2015
Time: 8:30
Recorded By: STD

Main Control Panel	
System Running (Y/N)	Yes
Alarm Condition (Y/N)	No
Circuits Tripped (Y/N)	No
Stripper Backpressure (psig)	6.0
Run Time (hours)	11,345.0
Electric (kw/h)	243,230

VE/GE System - Building Interior	
SVE Exhaust Temperature (°F)	158
AWS-1 Vacuum Pressure (inHg)	7.0
Dilution Valve (% open)	100%
Compressor Tank Pressure (psi)	104
Pressure to Wells (psi)	24
GW Return Pressure (psi)	0
Ambient Room Temperature (°F)	55
Sump Transfer Pump Pressure (psi)	45
Bag Filter Vessel Pressure (psi)	No reading
Carbon 1 Pressure (psi)	30
Carbon 2 Pressure (psi)	No reading
Flow Meter Totalizer Value (gallons)	6,801,400
Approximate Flow Rate (gal/min)	2.03

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

Date: 5/20/2015
Time: 12:00
Recorded By: RS

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)	11,515.5
Electric (kw/h)	246,557

VE/GE System - Building Interior	
SVE Exhaust Temperature (°F)	190
AWS-1 Vacuum Pressure (inHg)	11.0
Dilution Valve (% open)	100%
Compressor Tank Pressure (psi)	105
Pressure to Wells (psi)	20
GW Return Pressure (psi)	0
Ambient Room Temperature (°F)	60
Sump Transfer Pump Pressure (psi)	30
Bag Filter Vessel Pressure (psi)	5
Carbon 1 Pressure (psi)	10
Carbon 2 Pressure (psi)	8
Flow Meter Totalizer Value (gallons)	6,808,565
Approximate Flow Rate (gal/min)	2.03