



VIA ELECTRONIC MAIL

September 5, 2012

Mr. Kurt Kochan
Virginia Department of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, Virginia, 22193

**RE: Groundwater Monitoring Report
Fairfax Facility # 26140
9901 Georgetown Pike
Great Falls, Fairfax County, Virginia
PC# 2010-3028**

Dear Mr. Kochan:

Kleinfelder, on behalf of Fairfax Petroleum Realty, LLC (Fairfax), is submitting this Groundwater Monitoring Report for the above-referenced facility. This report includes a summary of site activities completed between July 1, 2011 and June 30, 2012.

Please feel free to contact us at (410) 850-0404 should you have questions.

Sincerely,
Kleinfelder East, Inc.

A handwritten signature in blue ink that reads "Charlie Low".

Charlie Low
Environmental Scientist

A handwritten signature in blue ink that reads "Brian Barone".

Brian Barone
Project Manager

Attachment

cc: Mr. Tom Wright – Fairfax Petroleum Realty, LLC



GROUNDWATER MONITORING REPORT
Fairfax Petroleum Facility # 26140
9901 Georgetown Pike
Great Falls, Fairfax County, Virginia

REGULATORY INFORMATION

Regulatory Agency:	Virginia Department of Environmental Quality (VADEQ)
Agency Contact:	Mr. Kurt Kochan
Pollution Complaint No.:	2010-3028
Current Case Status:	Corrective Action Plan (CAP) Development
Reporting Period:	July 1, 2011 through June 30, 2012
Last Report:	Second Quarter 2011 Post Site Characterization Monitoring Report, June 15, 2011

GENERAL SITE INFORMATION

Fairfax Petroleum Realty Contact:	Mr. Tom Wright
Consultant Contact:	Mr. Mark C. Steele
Facility Status:	Active branded Exxon retail service station with auto repair facilities.
Area Property Use:	See Local Area Map (Figure 1)
Monitoring Wells:	MW-1 through MW-3, MW-5, MW-6S, MW-6D, MW-7 through MW-16D, and PW-1
Site Geology:	Silts and sands underlain by structured saprolite and schist
Surficial Groundwater Flow Direction:	Southeast

ACTIVITIES COMPLETED THIS PERIOD

August 18 through August 23, 2011 – Overburden Monitoring Well Installation

Monitoring wells MW-13 through MW-15 were installed on-site for remediation pilot testing. The well locations are depicted on **Figure 2**, the well construction details are summarized on **Table 1** and copies of the boring logs and well construction diagrams are included in **Appendix A**.

From August 17 through August 23, 2011, three overburden monitoring wells (MW-13, MW-14 and MW-15) were installed by B.L. Myers Bros., LLC, (B.L. Myers) under the oversight of Kleinfelder, using a hollow stem auger drill rig. Prior to drilling, each borehole was cleared to a minimum of five feet below grade using air knife/vacuum excavation technology to avoid damaging subsurface utilities.

Specific details related to the drilling and monitoring well installation activities at the Site are listed below.

<i>Date Performed</i>	<i>August 18 through August 23 , 2011</i>
Monitoring Well ID	MW-13, MW-14, and MW-15
Driller	B.L. Myers Bros., LLC
Drilling Method Utilized	6.25-inch diameter hollow stem augers
Completion Depths	MW-13: 45 feet below grade MW-14: 47 feet below grade MW-15: 45 feet below grade
Screened Interval (Monitoring Wells)	MW-13: 25 - 45 feet below grade MW-14: 25 - 45 feet below grade MW-15: 25 - 45 feet below grade
Material Utilized	4-inch diameter 0.020-inch machine-slotted schedule-40 PVC well screen with a flush threaded 4-inch diameter solid PVC casing
Annular Space	#2 sand: 23 - 45 feet below grade Bentonite Seal: 19 - 23 feet below grade Portland Grout: 1 - 23 feet below grade

Following construction, each monitoring well location was completed with a gripper plug and a waterproof bolt-down manhole set in a concrete pad. The well construction diagrams are included in **Appendix A**.

During the advancement of borings, soil samples were collected using a split spoon sampler at depths of 5 feet and 10 feet below grade, then continuously from 15 feet to the end of the borehole spanning the groundwater interface. Below the apparent groundwater interface, soil samples were collected intermittently to termination depth of each boring. During drilling, grab samples were collected from drill cuttings at approximate 10 foot intervals from approximately 10 feet below grade to terminal depth, were examined for lithologic content and field screened for volatile organic compounds (VOCs) using a calibrated photoionization detector (PID). The PID readings in the boreholes for monitoring wells MW-13 through MW-15 ranged from 0.0 to 158 parts per million volume (ppmv). The PID readings are depicted on the boring logs included as **Appendix A**.

One sample from each boring location was collected from above the groundwater interface and submitted to Lancaster Laboratories of Lancaster, Pennsylvania (Lancaster) for laboratory analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) using Environmental Protection Agency (EPA) Method 8260B and total petroleum hydrocarbons - gasoline range organics (TPH-GRO) using EPA Method 8015B. Soil analytical data is presented in **Table 2** and the Lancaster soil analytical report is included as **Appendix B**.

A total of 14 55-gallon steel Department of Transportation (DOT) drums of soil cuttings were generated during installation of monitoring wells MW-13 through MW-15 and were transported for disposal to the RECO Biotechnology facility in Richmond, Virginia. The non-hazardous waste manifest for the disposal of the soil cuttings is included in **Appendix C**.

The wells were developed using a submersible pump and disposable bailer, the bailer was surged inside each well to remove sediments from the sand filter, to grade formational sediments and to remove the sediment lining on the borehole that is inherent in most drilling methods. After each well was surged, the submersible pump was lowered into each well and pumped until at least five well volumes were removed. Water produced during well development was treated on-Site with portable granular activated carbon filters before discharging to the surface.

The vertical elevations of the top of casing (TOC) for each well were measured with standard surveying equipment and tied into the existing well network. Top of casing elevations were measured to the nearest 0.01-foot with 0.01-foot precision.

September 2, 2011 – Groundwater Gauging/Sampling

Wells Gauged and Sampled:	MW-1 through MW-3, MW-5, MW-6S, MW-6D (3 intervals), MW-7 through MW-11, MW-12 (2 intervals), MW-13 through MW-15, and PW-1 (3 intervals)
Liquid Phase Hydrocarbon:	None detected
Minimum/Maximum Depth to Water:	24.04 (MW-6S) / 38.61 (PW-1) feet
Hydraulic Gradient:	0.0255 ft/ft between MW-5 and MW-8
Groundwater Flow Direction:	Southeast

On September 2, 2011, Kleinfelder personnel completed groundwater activities at the Site. Monitoring well MW-3 was dry and not sampled. Monitoring wells MW-6D and PW-1 (the former station potable well) were each sampled at three different intervals (65 feet, 85 feet and 105 feet below TOC) and MW-12 was sampled at two different intervals (110 and 153 feet below TOC) using low-flow technology. During low-flow groundwater sampling activities, water quality data was obtained from the wells and upon observing stabilized parameters, samples were collected for laboratory analysis.

Groundwater samples were submitted under chain of custody protocol to Lancaster Laboratories for analysis of BTEX and MTBE using EPA Method 8260B and TPH-GRO using EPA Method 8015B. Groundwater monitoring and analytical data is summarized in **Table 3** and depicted on **Figure 3**. The Lancaster Laboratories Analysis Report is included in **Appendix D**.

September 13 through September 14, 2011 – Pilot Testing

Based on the results of the feasibility testing previously conducted on December 16, 2009 completed by others, it was determined that two 12-hour pilot tests would be conducted at the Site in the form of a vacuum enhanced groundwater extraction (VEGE) and a dual phase extraction (DPE) test to be performed using monitoring well MW-15 as the extraction well. These tests would be conducted for a longer duration than previously conducted tests allowing for a better understanding of equilibrium conditions at the Site. Pilot testing was conducted on September 13 and September 14, 2011.

Due to difficulties in conducting the VEGE test on monitoring well MW-15, the tests were altered and conducted as DPE feasibility test on monitoring well MW-15 and a DPE feasibility test on monitoring well MW-11. The details and results of the pilot testing will be presented in the CAP.

November 21 through November 22, 2011 – Bedrock Monitoring Well Installation

Bedrock monitoring well MW-16D was installed on-site for borehole geophysical survey and packer testing to aid in understanding of the migration of MTBE. The location of well MW-16D is depicted on **Figure 2**. The well construction details are summarized on **Table 1** and copies of the boring logs and well construction diagrams are included in **Appendix A**.

On November 21, 2011, B.L. Myers, with oversight from Kleinfelder, pre-cleared the borehole location for MW-16D to approximately five feet below grade using air knife/vacuum excavation. On November 21 and 22, 2011, after pre-clearing the MW-16D borehole location, B.L. Myers advanced the borehole to a depth of approximately 86 feet below grade using air rotary drilling methods with a 10-inch diameter air hammer. Competent bedrock was encountered at approximately 46 feet below grade and a bedrock fracture was encountered between 85 and 86 feet below grade. Upon reaching 86 feet below grade, 6-inch diameter steel casing was installed in the borehole. As the 85-86 foot fracture appeared to produce water, the steel casing was supported with its base at 85 feet below grade as the annular space between the steel casing the borehole was tremie-grouted with a Portland-cement grout to grade. After the grout had cured for approximately 24 hours, a 6-inch diameter open borehole was advanced to approximately 150 feet below grade using air rotary drilling methods. The well was then developed using air-lifting techniques. The well construction log for monitoring well MW-16D is included as **Appendix A**.

During drilling, grab samples were collected from drill cuttings at approximate 10 foot intervals from approximately 10 feet below grade to terminal depth, were examined for lithologic content and field screened for VOCs using a calibrated PID. The PID readings in the borehole for monitoring well MW-16D ranged from 0.1 to 32.1 ppmv and are identified in the boring log included in **Appendix A**.

The soils encountered during the installation of monitoring well MW-16D consisted of silty fine sands and micaceous sandy silt to depths of approximately 46 feet below grade where bedrock was first encountered.

The first encountered groundwater was in the visibly wet cuttings retrieved from a bedrock fracture at approximately 85 - 86 feet below grade. Gray schist was encountered from 46 to 130 feet, black schist with some quartz grains was encountered from 130 to 140 feet and olive-brown schist with some quartz grains was encountered from 140 to 150 feet. The boring log for MW-16D is included as **Appendix A**.

A total of 15 55-gallon steel DOT drums of soil cuttings and 15 55-gallon steel DOT drums of development water were generated during the installation and development of monitoring well MW-16D. Methyl tertiary butyl ether was detected in the development water and due to the volume of water generated the VADEQ approved the off-site disposal of the development water as opposed to on-site treatment. The drums were transported for disposal at the RECO Biotechnology facility in Richmond, Virginia. The non-hazardous waste manifests for the disposal of the soil cuttings and development water are included in **Appendix C**.

November 21 through November 22, 2011 – Partial Abandonment of Former Potable Well

On November 21 and 22, 2011, B.L. Myers, under supervision by Kleinfelder, partially abandoned the former potable well (PW-1) to a depth of 75 feet below TOC. The partial abandonment was proposed in the *Supplemental Subsurface Investigation Work Plan* submitted by Kleinfelder to the VADEQ on November 16, 2011 and approved by VADEQ in an email correspondence dated November 17, 2011. The partial abandonment was recommended based upon a review of geophysical data from August 2009 that identified downward flow within the well. The bottom of the well was abandoned using Teflon-coated bentonite pellets until the total depth of PW-1 was reduced from approximately 119 feet below TOC to approximately 75 feet below TOC (**Table 1**).

December 19 through December 20, 2011 –Borehole Geophysics

On December 19 through 20, 2011, Mid-Atlantic Geoscience (MAG) of Lancaster, Pennsylvania conducted a borehole geophysical survey on bedrock monitoring wells MW-6D, MW-12 and MW-16D. The details and results of the borehole geophysical survey will be presented in the CAP.

December 22 and December 29, 2011 – Groundwater Gauging/Sampling

Wells Gauged and Sampled:	MW-1 through MW-3, MW-5, MW-6S, MW-6D (3 intervals), MW-7 through MW-9, MW-11, MW-12 (3 intervals), MW-14, MW-15, MW-16D (3 intervals) and PW-1 (1 interval)
Liquid Phase Hydrocarbon:	None detected
Minimum/Maximum Depth to Water:	22.15 (MW-6S) / 36.37 (PW-1) feet
Hydraulic Gradient:	0.0261 ft/ft between MW-5 and MW-8
Groundwater Flow Direction:	Southeast

On December 22 and December 29, 2011, groundwater sampling activities were completed at the Site. Monitoring well MW-3 was dry and not sampled. Monitoring wells MW-10 and MW-13 were not accessible and were not sampled. Based upon the findings of the December 19 through December 20, 2011 borehole geophysical survey, sampling was conducted at three intervals for MW-6D (66 feet, 83 feet, and 105 feet below TOC), three intervals for MW-12 (110 feet, 127 feet and 141 feet below TOC) and three intervals for MW-16D (89 feet, 110 feet and 125 feet below TOC). Sampling of PW-1 was conducted at the 65 foot depth interval. Interval sampling of wells MW-6D, MW-12, MW-16D and PW-1 was conducted using low-flow technology. During low-flow groundwater sampling activities, water quality data was obtained from the wells and upon observing stabilized parameters, samples were collected for laboratory analysis.

Groundwater samples were submitted under chain of custody protocol to Lancaster Laboratories for analysis of BTEX and MTBE using EPA Method 8260B and TPH-GRO using EPA Method 8015B. Groundwater monitoring and analytical data is summarized in **Table 3** and depicted on **Figure 4**. The Lancaster Laboratories Analysis Report is included in **Appendix D**.

February 29 through March 1, 2012 – Packer Testing

On February 29 and March 1, 2012, Eichelbergers Well Drilling, Inc. (Eichelbergers), under supervision of Kleinfelder, conducted packer testing on bedrock monitoring well MW-16D. A water sample was collected during packer testing of the 83.5 to 96 foot below TOC interval and submitted for analysis of VOCs using EPA Method 8260. The results are summarized in **Table 3**. The details and results of the MW-16D packer testing will be presented in the CAP.

April 20, 2012 – Partial Well Abandonment

On April 20, 2012, Eichelbergers, with oversight from Kleinfelder, partially abandoned the bedrock monitoring well MW-16D to a depth of approximately 110 feet below TOC. The bottom of the well was abandoned because the borehole geophysics and packer testing did not indicate sufficient water bearing zones in the open borehole. Monitoring well MW-16D was partially abandoned using Teflon-coated bentonite pellets from an approximate depth of 150 feet to a depth of approximately 110 feet below TOC (**Table 1**).

June 1, 2012 – Groundwater Gauging/Sampling

Wells Gauged and Sampled:	MW-1 through MW-3, MW-5, MW-6S, MW-6D (3 intervals), MW-7 through MW-11, MW-12 (2 intervals), MW-13 through MW-15, MW-16D (1 interval) and PW-1 (1 interval)
Liquid Phase Hydrocarbon:	None detected
Minimum/Maximum Depth to Water:	22.72 (MW-6S) / 36.82 (PW-1) feet
Hydraulic Gradient:	0.0256 ft/ft between MW-5 and MW-8
Groundwater Flow Direction:	Southeast

On June 1, 2012, Kleinfelder personnel completed groundwater sampling activities at the Site. An insufficient volume of water was present in monitoring well MW-3; therefore, the well was not sampled. The sampling intervals and procedures for wells MW-6D, MW-12, MW-16D, and PW-1 were similar to the December 2011 sampling event.

Groundwater samples were submitted under chain of custody protocol to Lancaster Laboratories for analysis of BTEX and MTBE using EPA Method 8260B and TPH-GRO using EPA Method 8015B. Groundwater monitoring and analytical data is summarized in **Table 3** and depicted on **Figure 5**. The Lancaster Laboratories Analysis Report for groundwater is included in **Appendix D**.

LIMITATIONS

This work was performed in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services are provided.

Our conclusions, opinions and recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no other representation, guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

FIGURES AND TABLES:

- Figure 1: Local Area Map with offsite well locations
Figure 2: Site Plan
Figure 3: Hydrocarbon Distribution / Groundwater Contour Map
(September 2, 2011)
Figure 4: Hydrocarbon Distribution / Groundwater Contour Map
(December 22 and December 29, 2011)
Figure 5: Hydrocarbon Distribution / Groundwater Contour Map
(June 1, 2012)
- Table 1: Monitoring Well Construction Data
Table 2: Soil Analytical Data
- Table 3: Groundwater Monitoring & Analytical Data

APPENDICES:

- Appendix A: Monitoring Well Boring and Construction Logs
Appendix B: Lancaster Laboratories Analysis Report – Soil
Appendix C: Non-Hazardous Waste Manifests
Appendix D: Lancaster Laboratories Analysis Reports - Groundwater

Prepared By:

Kleinfelder East, Inc.



Charlie Low

Environmental Scientist



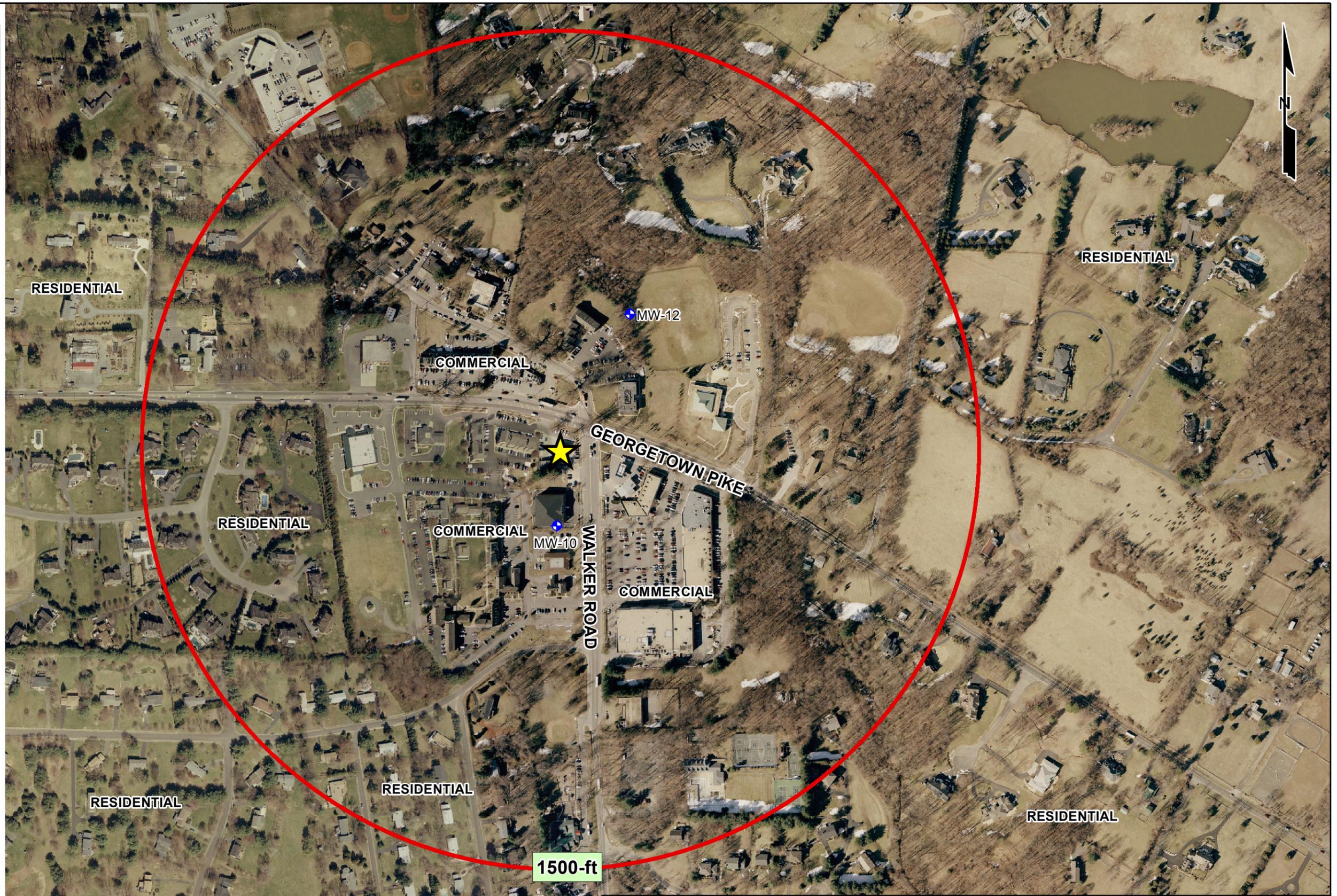
Brian Barone

Project Manager

FIGURES

Legend

-  Site Location
-  Offsite Well
-  1500-ft Site Radius



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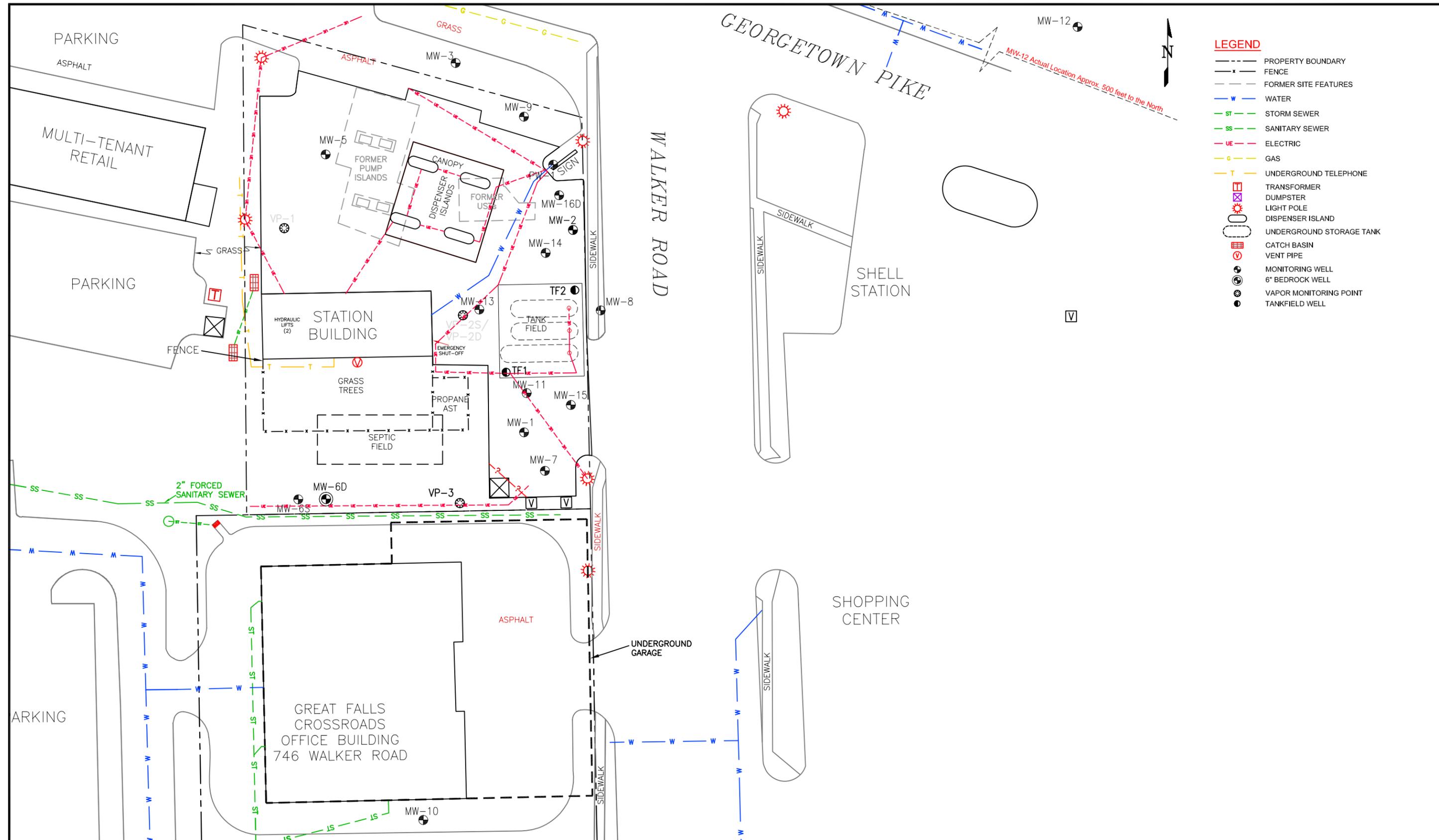


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**LOCAL AREA MAP with
OFFSITE WELL LOCATIONS**

FAIRFAX PETROLEUM REALTY FACILITY # 26140
9901 GEORGETOWN PIKE
GREAT FALLS, VIRGINIA

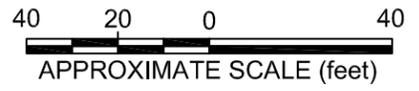
FIGURE
1



- LEGEND**
- PROPERTY BOUNDARY
 - x- FENCE
 - - - FORMER SITE FEATURES
 - W WATER
 - ST STORM SEWER
 - SS SANITARY SEWER
 - UE ELECTRIC
 - G GAS
 - T UNDERGROUND TELEPHONE
 - ☐ TRANSFORMER
 - ☒ DUMPSTER
 - ☼ LIGHT POLE
 - DISPENSER ISLAND
 - UNDERGROUND STORAGE TANK
 - ☒ CATCH BASIN
 - ⊕ VENT PIPE
 - ⊕ MONITORING WELL
 - ⊕ 6" BEDROCK WELL
 - ⊕ VAPOR MONITORING POINT
 - ⊕ TANKFIELD WELL



MW-12
 MW-12 Actual Location Approx. 500 feet to the North



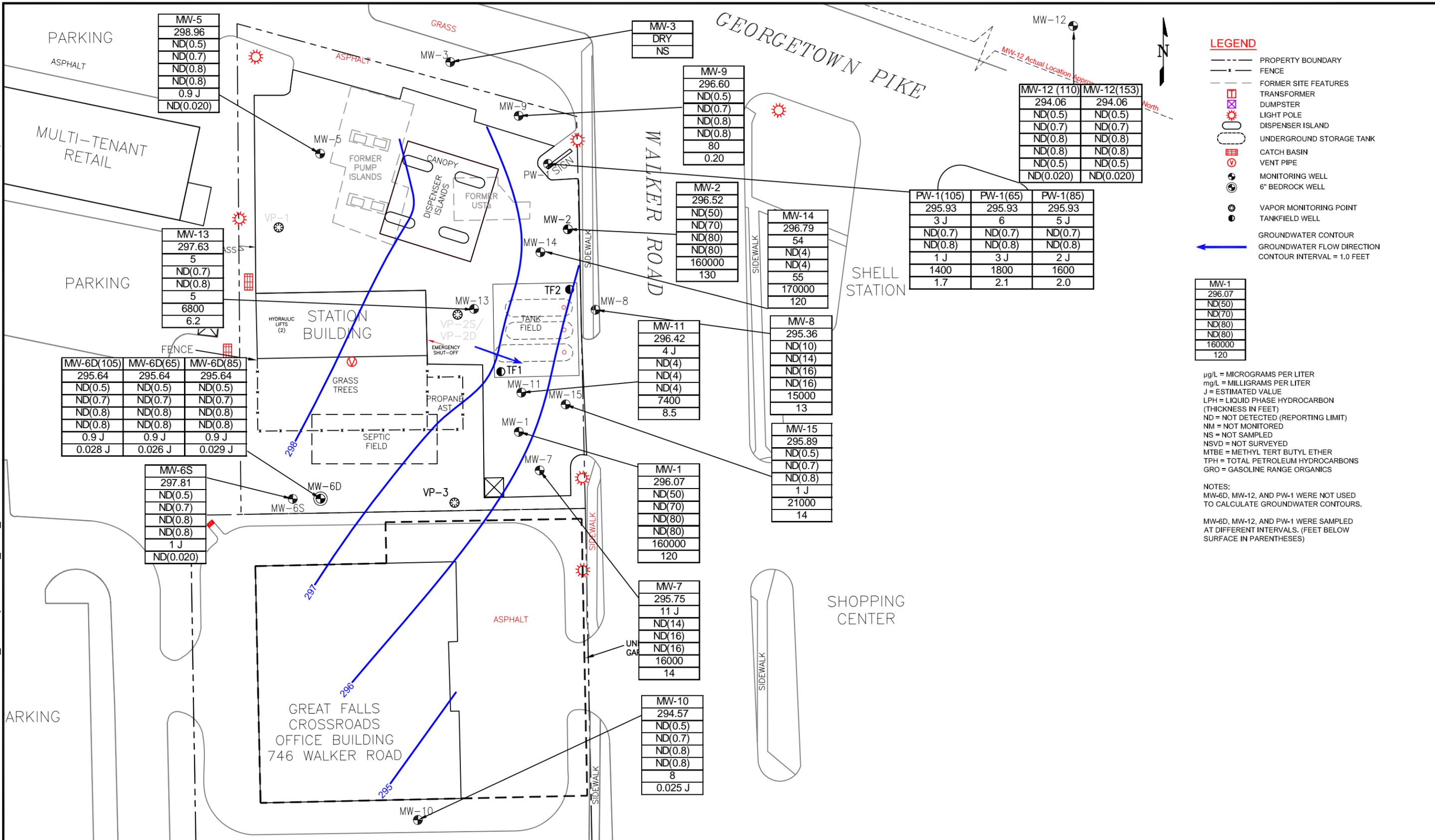
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SITE PLAN
FAIRFAX PETROLEUM REALTY FACILITY #26140 9901 GEORGETOWN PIKE GREAT FALLS, VIRGINIA

FIGURE
2

HANOVER, MD

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LEGEND

- PROPERTY BOUNDARY
- - - FENCE
- - - FORMER SITE FEATURES
- ☐ TRANSFORMER
- ☼ DUMPSTER
- ☼ LIGHT POLE
- ☐ DISPENSER ISLAND
- ☐ UNDERGROUND STORAGE TANK
- ☐ CATCH BASIN
- ⊕ VENT PIPE
- ⊕ MONITORING WELL
- ⊕ 6" BEDROCK WELL
- ⊕ VAPOR MONITORING POINT
- ⊕ TANKFIELD WELL
- ← GROUNDWATER CONTOUR
- ← GROUNDWATER FLOW DIRECTION
- ← CONTOUR INTERVAL = 1.0 FEET

MW-1
296.07
ND(50)
ND(70)
ND(80)
160000
120

µg/L = MICROGRAMS PER LITER
 mg/L = MILLIGRAMS PER LITER
 J = ESTIMATED VALUE
 LPH = LIQUID PHASE HYDROCARBON (THICKNESS IN FEET)
 ND = NOT DETECTED (REPORTING LIMIT)
 NM = NOT MONITORED
 NS = NOT SAMPLED
 NSVD = NOT SURVEYED
 MTBE = METHYL TERT BUTYL ETHER
 TPH = TOTAL PETROLEUM HYDROCARBONS
 GRO = GASOLINE RANGE ORGANICS

NOTES:
 MW-6D, MW-12, AND PW-1 WERE NOT USED TO CALCULATE GROUNDWATER CONTOURS.
 MW-6D, MW-12, AND PW-1 WERE SAMPLED AT DIFFERENT INTERVALS. (FEET BELOW SURFACE IN PARENTHESES)

MW-6D(105)	MW-6D(65)	MW-6D(85)
295.64	295.64	295.64
ND(0.5)	ND(0.5)	ND(0.5)
ND(0.7)	ND(0.7)	ND(0.7)
ND(0.8)	ND(0.8)	ND(0.8)
ND(0.8)	ND(0.8)	ND(0.8)
0.9 J	0.9 J	0.9 J
0.028 J	0.026 J	0.029 J

MW-6S
297.81
ND(0.5)
ND(0.7)
ND(0.8)
ND(0.8)
1 J
ND(0.020)



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**HYDROCARBON DISTRIBUTION/
GROUNDWATER CONTOUR MAP
SEPTEMBER 2, 2011**

FAIRFAX PETROLEUM REALTY FACILITY #26140
9901 GEORGETOWN PIKE
GREAT FALLS, VIRGINIA

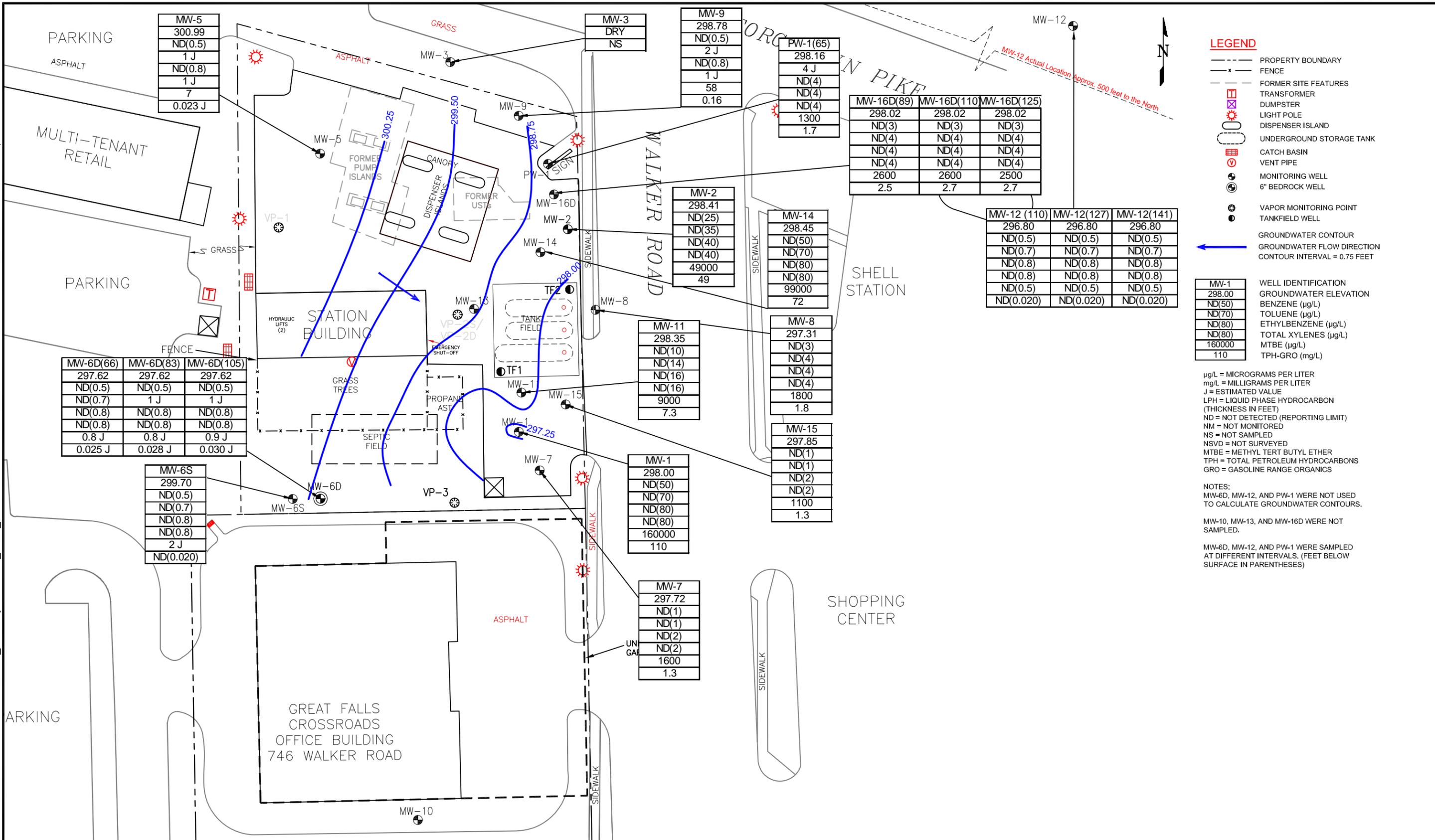
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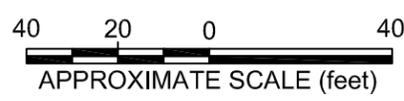
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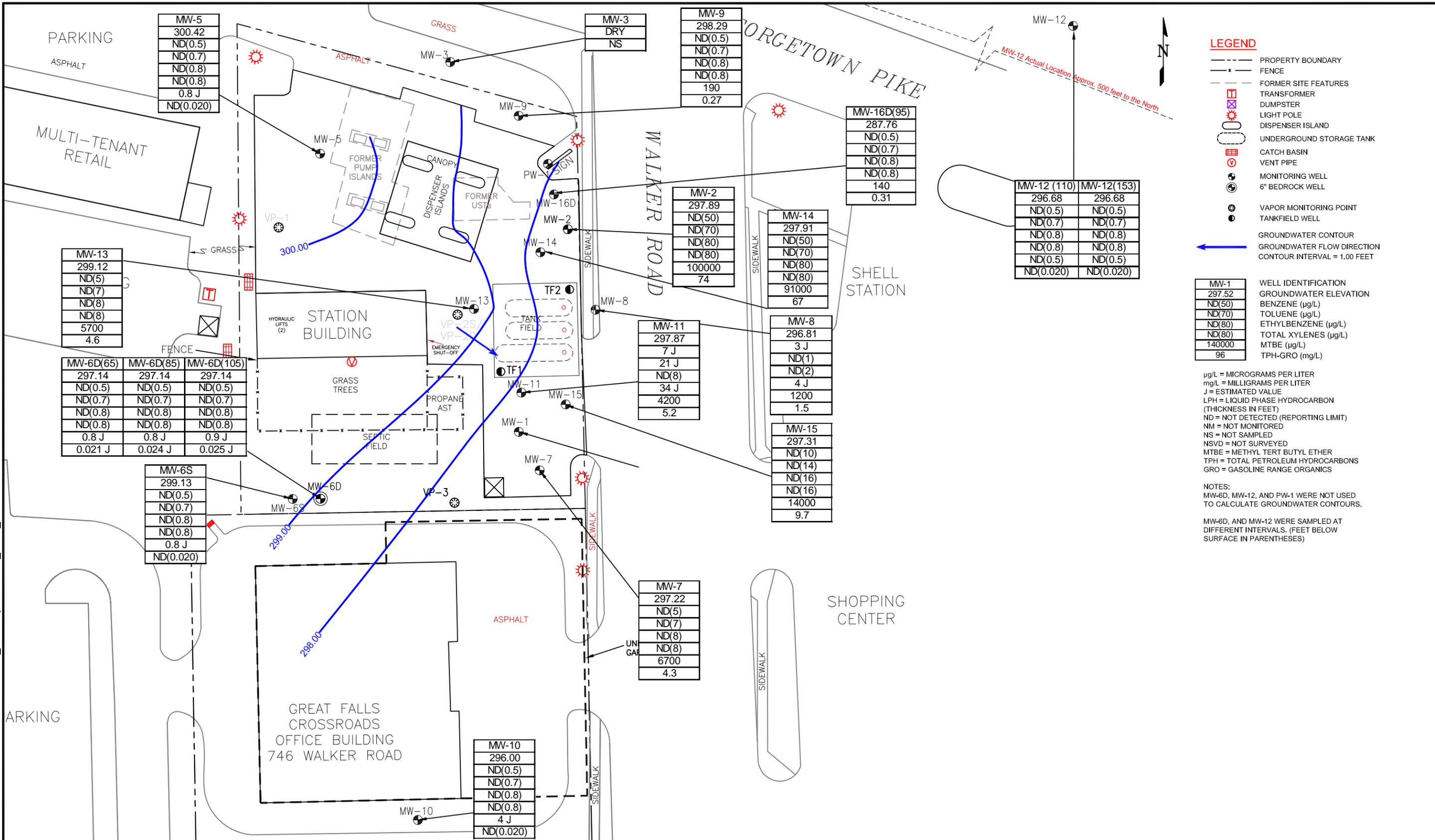
<p>KLEINFELDER Bright People. Right Solutions. www.kleinfelder.com</p>	PROJECT NO. 121473	<p>HYDROCARBON DISTRIBUTION/ GROUNDWATER CONTOUR MAP DECEMBER 22 AND 29, 2011</p> <p>FAIRFAX PETROLEUM REALTY FACILITY #26140 9901 GEORGETOWN PIKE GREAT FALLS, VIRGINIA</p>	<p>FIGURE 4</p>
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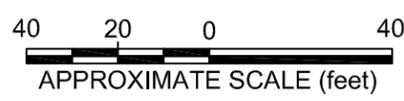
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HYDROCARBON DISTRIBUTION/ GROUNDWATER CONTOUR MAP JUNE 1, 2012	FIGURE 5
FAIRFAX PETROLEUM REALTY FACILITY #26140 9901 GEORGETOWN PIKE GREAT FALLS, VIRGINIA	

TABLES

TABLE 1
Monitoring Well Construction Details

Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, VA

Monitoring Well	Installation Date	Well Type	Well Diameter (in)	Top of Casing Elevation (ft)	Stick-up	Screen Top (Depth from TOC) (ft)	Screen Bottom (Depth from TOC) (ft)	Screen Top Elevation (ft)	Screen Bottom Elevation (ft)	Well Bottom (Depth from GS) (ft)	Well Bottom Elevation (ft)	Comments
MW-1	7/20/2009	Monitoring	2	328.99	Flush	20.00	35.00	308.99	293.99	37.00	291.99	
MW-2	7/21/2009	Monitoring	2	332.05	Flush	25.00	40.00	307.05	292.05	42.00	290.05	
MW-3	7/22/2009	Monitoring	2	333.98	Flush	25.00	35.00	308.98	298.98	37.00	296.98	
MW-5	7/22/2009	Monitoring	2	332.35	Flush	30.00	40.00	302.35	292.35	42.00	290.35	
MW-6S	9/11/2009	Monitoring	4	321.85	Flush	20.00	35.00	301.85	286.85	35.00	286.85	
MW-6D	9/11/2009	Monitoring	6	323.09	Flush	70.00	120.00	253.09	203.09	120.00	203.09	No screen, open bore hole after 70 feet
MW-7	10/16/2009	Monitoring	2	327.96	Flush	15.00	40.00	312.96	287.96	40.00	287.96	
MW-8	10/8/2009	Monitoring	2	330.54	Flush	25.00	45.00	305.54	285.54	45.00	285.54	
MW-9	10/9/2009	Monitoring	2	333.46	Flush	25.00	45.00	308.46	288.46	45.00	288.46	
MW-10	10/12/2009	Monitoring	2	324.17	Flush	10.00	40.00	314.17	284.17	40.00	284.17	
MW-11	10/14/2009	Monitoring	2	329.64	Flush	10.00	40.00	319.64	289.64	40.00	289.64	
MW-12	1/11/2011	Monitoring	6	326.43	Flush					160.00	166.43	No screen, open bore hole after 100 feet
MW-13	8/18/2011	Monitoring	4	332.00	Flush	25.00	45.00	307.00	287.00	45.00	287.00	
MW-14	8/18/2011	Monitoring	4	331.81	Flush	25.00	45.00	306.81	286.81	45.00	286.81	
MW-15	8/18/2011	Monitoring	4	328.95	Flush	25.00	45.00	303.95	283.95	45.00	283.95	
MW-16D	11/22/2011	Monitoring	6	332.90	Flush	85.00	150.00	247.90	222.90	110.00	222.90	No screen, open bore hole after 85 feet.
PW-1	Unknown	Former Potable Well	6	328.95	Flush	55.00	116.00	273.95	253.95	75.00	253.95	No screen, open bore hole after 54.4 feet. Partially abandoned in November 2011, original total well depth was approximately 116 feet bgs.

Table 2
Soil Analytical Data
 Fairfax Facility # 26140
 9901 Georgetown Pike
 Great Falls, VA

Monitoring Well	Sample Interval (ft)	Date	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylene (total) mg/kg	Methyl Tert Butyl Ether mg/kg	Tert Butyl Alcohol mg/kg	tert-Amyl Methyl Ether mg/kg	Di-Isopropyl ether mg/kg	tert-Butyl Ethyl Ether mg/kg	TPH-GRO mg/kg	TPH-DRO mg/kg
MW-1	35	7/21/2009	ND (0.022)	ND (0.012)	ND (0.0074)	ND (0.012)	7.06	NA	NA	NA	NA	5.81 J	ND (12)
MW-2	35	7/21/2009	ND (0.034)	ND (0.018)	ND (0.011)	ND (0.019)	14.2	NA	NA	NA	NA	8.45	ND (13)
MW-3	30	7/22/2009	ND (0.047)	ND (0.025)	ND (0.015)	ND (0.026)	ND (0.023)	NA	NA	NA	NA	ND (7.0)	ND (17)
MW-5	40	7/22/2009	ND (0.030)	ND (0.016)	ND (0.010)	ND (0.017)	ND (0.015)	NA	NA	NA	NA	ND (4.5)	ND (14)
MW-6S	22 - 24	9/11/2009	ND (0.0045)	NS (0.0039)	ND (0.0049)	ND (0.0062)	ND (0.0038)	NA	NA	NA	NA	NA	NA
MW-7	28 - 30	10/6/2009	ND (0.00040)	ND (0.00034)	ND (0.00043)	ND (0.00055)	0.0031	ND (0.017)	ND (0.00050)	ND (0.00025)	ND (0.00082)	NA	NA
MW-8	36 - 38	10/8/2009	ND (0.00049)	ND (0.00042)	ND (0.00053)	ND (0.00067)	3.0	6.24	0.0134	0.0089	ND (0.001)	NA	NA
MW-9	12 - 14	10/9/2009	ND (0.022)	ND (0.019)	ND (0.024)	ND (0.031)	ND (0.018)	ND (0.940)	ND (0.028)	ND (0.014)	ND (0.046)	NA	NA
MW-10	8 - 10	10/12/2009	ND (0.00042)	ND (0.00036)	ND (0.00046)	ND (0.00058)	ND (0.00035)	ND (0.018)	ND (0.00053)	ND (0.00026)	ND (0.00087)	NA	NA
MW-11	32 - 34	10/14/2009	ND (0.001)	ND (0.0089)	ND (0.0011)	ND (0.0014)	0.0096	39	0.0212	0.0017 J	ND (0.0021)	18.4	ND (3.7)
	38 - 40	10/14/2009	ND (0.0056)	ND (0.0048)	ND (0.0061)	ND (0.0078)	1.94	8.77	0.00074 J	0.0024 J	ND (0.0012)	ND (1.6)	ND (3.8)
MW-12	45	1/11/2011	ND (0.006)	ND (0.006)	ND (0.006)	ND (0.006)	ND (0.006)	NA	NA	NA	NA	ND (1.2)	ND (13)
MW-13	27-29	8/23/2011	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	36	NA	NA	NA	NA	13	NA
MW-14	29-31	8/23/2011	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	7.7	NA	NA	NA	NA	2.3	NA
MW-15	33-35	8/23/2011	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	0.69	NA	NA	NA	NA	ND (0.9)	NA

NOTES

mg/Kg = Milligrams per Kilogram

ft = Feet

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

J = Indicates an estimated value

NA - Not analyzed

ND (0.006) - Not detected (laboratory reporting limit)

Table 3
Groundwater Monitoring & Analytical Data

Fairfax Facility #26140
 9901 Georgetown Pike
 Great Falls, Virginia
 July 24, 2009 through June 1, 2012

Well ID	Date	Gauging Data					Analytical Data							Comments	
		Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-gasoline range organics		
MW-1	07/24/2009	100.00	30.45	ND	ND	69.55	13.3	<1.0	0.53	ND	13.8	193000	105		
	08/18/2009	NM	NM	NM	NM	NM	ND(200)	ND(200)	ND(200)	ND(200)	BRL	138000	65.7		
	10/15/2009	328.99	31.88	ND	ND	297.11	ND(200)	ND(200)	ND(200)	ND(200)	BRL	139000	125		
	06/22/2010	328.99	28.65	ND	ND	300.34	ND(5)	ND(7)	ND(8)	ND(8)	BRL	13000	14		
	09/30/2010	328.99	31.11	ND	ND	297.88	ND(50)	ND(70)	ND(80)	110 J	110 J	240000	170		
	12/16/2010	328.99	30.93	ND	ND	298.06	ND(100)	ND(140)	ND(160)	ND(160)	BRL	220000	150		
	02/17/2011	328.99	31.46	ND	ND	297.53	ND(250)	ND(350)	ND(400)	ND(400)	BRL	190000	170		
	05/24/2011	328.99	30.24	ND	ND	298.75	ND(50)	ND(70)	ND(80)	ND(80)	BRL	140000	120		
	09/02/2011	328.99	32.92	ND	ND	296.07	ND(50)	ND(70)	ND(80)	ND(80)	BRL	160000	120		
	12/29/2011	328.99	30.99	ND	ND	298.00	ND(50)	ND(70)	ND(80)	ND(80)	BRL	160000	110		
06/01/2012	328.99	31.47	ND	ND	297.52	ND(50)	ND(70)	ND(80)	ND(80)	BRL	140000	96			
MW-2	07/24/2009	102.90	33.19	ND	ND	69.71	70.2	8.0	1.0	ND	79.2	107000	59		
	08/18/2009	NM	NM	NM	NM	NM	ND(100)	ND(100)	ND(100)	ND(100)	BRL	87100	53.9		
	10/15/2009	332.05	34.41	ND	ND	297.64	ND(200)	ND(200)	ND(200)	ND(200)	BRL	122000	117		
	07/01/2010	332.05	31.63	ND	ND	300.42	ND(100)	91.3 J	ND(100)	ND(100)	91.3 J	52400	42.7		
	09/30/2010	332.05	32.96	ND	ND	299.09	ND(25)	ND(35)	ND(40)	ND(40)	BRL	37000	27		
	12/16/2010	332.05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	Well inaccessible
	02/17/2011	332.05	34.15	ND	ND	297.90	ND(100)	ND(140)	ND(160)	ND(160)	BRL	140000	120		
	05/24/2011	332.05	32.92	ND	ND	299.13	ND(25)	ND(35)	ND(40)	ND(40)	BRL	54000	49		
	09/02/2011	332.05	35.53	ND	ND	296.52	ND(50)	ND(70)	ND(80)	ND(80)	BRL	160000	130		
	12/29/2011	332.05	33.64	ND	ND	298.41	ND(25)	ND(35)	ND(40)	ND(40)	BRL	49000	49		
06/01/2012	332.05	34.16	ND	ND	297.89	ND(50)	ND(70)	ND(80)	ND(80)	BRL	100000	74			

Table 3 (Continued)
Groundwater Monitoring & Analytical Data

Fairfax Facility #26140
 9901 Georgetown Pike
 Great Falls, Virginia
 July 24, 2009 through June 1, 2012

Well ID	Date	Gauging Data					Analytical Data							Comments
		Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydrocarbon (feet)	Hydrocarbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-gasoline range organics	
MW-3	07/24/2009	104.99	33.67	ND	ND	71.32	<0.50	<1.0	<1.0	ND	BRL	5.7	NA	
	10/15/2009	333.98	34.51	ND	ND	299.47	NS	NS	NS	NS	NS	NS	NS	
	07/01/2010	333.98	32.39	ND	ND	301.59	ND(2)	ND(2)	ND(2)	ND(2)	BRL	1.9 J	0.499	
	09/30/2010	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	
	12/16/2010	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	
	02/17/2011	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	
	05/24/2011	333.98	33.63	ND	ND	300.35	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	2 J	0.28	
	09/02/2011	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	
	12/29/2011	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	
	06/01/2012	333.98	34.56	ND	ND	299.42	NS	NS	NS	NS	NS	NS	NS	Insufficient water for sample
MW-5	07/24/2009	103.43	30.72	ND	ND	72.71	<0.50	<1.0	<1.0	ND	BRL	1.3	NA	
	08/18/2009	NM	NM	NM	NM	NM	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	0.48	ND(0.20)	
	10/15/2009	332.35	32.51	ND	ND	299.84	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	11.4	ND(0.20)	
	06/22/2010	332.35	29.40	ND	ND	302.95	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	ND(0.02)	
	09/30/2010	332.35	32.30	ND	ND	300.05	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	ND(0.02)	
	12/16/2010	332.35	32.12	ND	ND	300.23	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	12	ND(0.02)	
	02/17/2011	332.35	32.31	ND	ND	300.04	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	2 J	ND(0.020)	
	05/24/2011	332.35	30.84	ND	ND	301.51	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	0.9 J	ND(0.020)	
	09/02/2011	332.35	33.39	ND	ND	298.96	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	0.9 J	ND(0.020)	
		12/28/2011	332.35	31.36	ND	ND	300.99	ND(0.5)	1 J	ND(0.8)	1 J	2 J	7	0.023 J
	06/01/2012	332.35	31.93	ND	ND	300.42	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	0.8 J	ND(0.020)	

Table 3 (Continued)
Groundwater Monitoring & Analytical Data

Fairfax Facility #26140
 9901 Georgetown Pike
 Great Falls, Virginia
 July 24, 2009 through June 1, 2012

Well ID	Date	Gauging Data					Analytical Data							Comments
		Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydrocarbon (feet)	Hydrocarbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-gasoline range organics	
MW-6S	09/24/2009	NM	NM	NM	NM	NM	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	2.8	NA	
	10/15/2009	321.85	23.35	ND	ND	298.50	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	2.8	ND(0.20)	
	06/22/2010	321.85	20.22	ND	ND	301.63	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	2 J	ND(0.02)	
	09/30/2010	321.85	23.00	ND	ND	298.85	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	0.9 J	ND(0.02)	
	12/16/2010	321.85	22.82	ND	ND	299.03	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	ND(0.02)	
	02/17/2011	321.85	23.02	ND	ND	298.83	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	ND(0.020)	
	05/24/2011	321.85	21.66	ND	ND	300.19	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	ND(0.020)	
	09/02/2011	321.85	24.04	ND	ND	297.81	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	ND(0.020)	
	12/29/2011	321.85	22.15	ND	ND	299.70	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	2 J	ND(0.020)	
06/01/2012	321.85	22.72	ND	ND	299.13	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	0.8 J	ND(0.020)		
MW-6D	09/30/2010	323.09	26.25	ND	ND	296.84	NS	NS	NS	NS	NS	NS	NS	
	02/17/2011	323.09	26.14	ND	ND	296.95	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	0.030 J	
MW-6D(65)	06/22/2010	323.09	26.69	ND	ND	296.40	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	ND(0.02)	
	09/30/2010	323.09	26.52	ND	ND	296.57	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	ND(0.02)	
	12/16/2010	323.09	25.92	ND	ND	297.17	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	0.024 J	
	05/24/2011	323.09	25.83	ND	ND	297.26	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	0.037 J	
	09/02/2011	323.09	27.45	ND	ND	295.64	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	0.9 J	0.026 J	
	12/22/2011	323.09	25.47	ND	ND	297.62	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	0.8 J	0.025 J	Sampled at 66'
06/01/2012	323.09	25.95	ND	ND	297.14	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	0.8 J	0.021 J		
MW-6D(75)	09/24/2009	NM	NM	NM	NM	NM	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	3.0	NA	
	10/15/2009	323.09	26.69	ND	ND	296.40	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	2.8	ND(0.20)	
MW-6D(85)	06/22/2010	323.09	26.69	ND	ND	296.40	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	0.023 J	
	09/30/2010	323.09	26.51	ND	ND	296.58	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	ND(0.02)	
	12/16/2010	323.09	25.92	ND	ND	297.17	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	6	0.023 J	
	05/24/2011	323.09	25.83	ND	ND	297.26	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	0.034 J	
	09/02/2011	323.09	27.45	ND	ND	295.64	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	0.9 J	0.029 J	
	12/22/2011	323.09	25.47	ND	ND	297.62	ND(0.5)	1 J	ND(0.8)	ND(0.8)	1 J	0.8 J	0.028 J	Sampled at 83'
06/01/2012	323.09	25.95	ND	ND	297.14	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	0.8 J	0.024 J		

Table 3 (Continued)
Groundwater Monitoring & Analytical Data

Fairfax Facility #26140
 9901 Georgetown Pike
 Great Falls, Virginia
 July 24, 2009 through June 1, 2012

Well ID	Date	Gauging Data					Analytical Data							Comments
		Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydrocarbon (feet)	Hydrocarbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-gasoline range organics	
MW-6D(105)	06/22/2010	323.09	26.69	ND	ND	296.40	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	2 J	0.023 J	
	09/30/2010	323.09	26.52	ND	ND	296.57	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	0.021 J	
	12/16/2010	323.09	25.92	ND	ND	297.17	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	0.021 J	
	05/24/2011	323.09	25.83	ND	ND	297.26	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	0.035 J	
	09/02/2011	323.09	27.45	ND	ND	295.64	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	0.9 J	0.028 J	
	12/22/2011	323.09	25.47	ND	ND	297.62	ND(0.5)	1 J	ND(0.8)	ND(0.8)	1 J	0.9 J	0.030 J	
	06/01/2012	323.09	25.95	ND	ND	297.14	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	0.9 J	0.025 J	
MW-6D(110)	09/24/2009	NM	NM	NM	NM	NM	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	3.0	NA	
	10/15/2009	323.09	26.69	ND	ND	296.40	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	2.8	ND(0.20)	
MW-7	10/15/2009	327.96	31.21	ND	ND	296.75	2.7 J	ND(10)	ND(10)	ND(10)	2.7 J	10600	10.5	
	06/22/2010	327.96	28.00	ND	ND	299.96	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	87	0.23	
	09/30/2010	327.96	30.24	ND	ND	297.72	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	ND(0.5)	ND(0.02)	
	12/16/2010	327.96	30.15	ND	ND	297.81	2 J	ND(1)	ND(2)	ND(2)	2 J	2100	1.8	
	02/17/2011	327.96	30.75	ND	ND	297.21	ND(10)	ND(14)	ND(16)	ND(16)	BRL	9700	9.0	
	05/24/2011	327.96	29.56	ND	ND	298.40	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	130	0.19	
	09/02/2011	327.96	32.21	ND	ND	295.75	11 J	ND(14)	ND(16)	ND(16)	11 J	16000	14	
	12/29/2011	327.96	30.24	ND	ND	297.72	ND(1)	ND(1)	ND(2)	ND(2)	BRL	1600	1.3	
06/01/2012	327.96	30.74	ND	ND	297.22	ND(5)	ND(7)	ND(8)	ND(8)	BRL	6700	4.3		
MW-8	10/15/2009	330.54	34.01	ND	ND	296.53	ND(500)	ND(500)	ND(500)	ND(500)	BRL	226000	207	
	06/22/2010	330.54	30.91	ND	ND	299.63	ND(5)	ND(7)	ND(8)	ND(8)	BRL	15000	14	
	09/30/2010	330.54	32.97	ND	ND	297.57	11 J	ND(14)	ND(16)	ND(16)	11 J	44000	31	
	12/16/2010	330.54	32.85	ND	ND	297.69	ND(25)	ND(35)	ND(40)	ND(40)	BRL	49000	32	
	02/17/2011	330.54	33.62	ND	ND	296.92	ND(25)	ND(35)	ND(40)	ND(40)	BRL	41000	34	
	05/24/2011	330.54	32.44	ND	ND	298.10	ND(5)	ND(7)	ND(8)	ND(8)	BRL	8400	7.9	
	09/02/2011	330.54	35.18	ND	ND	295.36	ND(10)	ND(14)	ND(16)	ND(16)	BRL	15000	13	
	12/29/2011	330.54	33.23	ND	ND	297.31	ND(3)	ND(4)	ND(4)	ND(4)	BRL	1800	1.8	
06/01/2012	330.54	33.73	ND	ND	296.81	3 J	ND(1)	ND(2)	4 J	7 J	1200	1.5		

Table 3 (Continued)
Groundwater Monitoring & Analytical Data

Fairfax Facility #26140
 9901 Georgetown Pike
 Great Falls, Virginia
 July 24, 2009 through June 1, 2012

Well ID	Date	Gauging Data					Analytical Data							Comments
		Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydrocarbon (feet)	Hydrocarbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-gasoline range organics	
MW-9	10/15/2009	333.46	35.60	ND	ND	297.86	ND(1.0)	0.33 J	ND(1.0)	0.38 J	0.71 J	64.7	0.430	
	06/22/2010	333.46	32.32	ND	ND	301.14	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	22	0.076	
	09/30/2010	333.46	34.85	ND	ND	298.61	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	52	0.21	
	12/16/2010	333.46	34.73	ND	ND	298.73	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	81	0.21	
	02/17/2011	333.46	35.28	ND	ND	298.18	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	48	0.19	
	05/24/2011	333.46	34.04	ND	ND	299.42	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	26	0.19	
	09/02/2011	333.46	36.86	ND	ND	296.60	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	80	0.20	
	12/29/2011	333.46	34.68	ND	ND	298.78	ND(0.5)	2 J	ND(0.8)	1 J	3 J	58	0.16	
06/01/2012	333.46	35.17	ND	ND	298.29	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	190	0.27		
MW-10	10/15/2009	324.17	28.77	ND	ND	295.40	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	10.3	ND(0.20)	
	06/22/2010	324.17	25.80	ND	ND	298.37	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	4	ND(0.02)	
	12/16/2010	324.17	27.72	ND	ND	296.45	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	10	ND(0.02)	
	02/17/2011	324.17	28.05	ND	ND	296.12	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	7	ND(0.020)	
	05/24/2011	324.17	27.04	ND	ND	297.13	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	3 J	ND(0.020)	
	09/02/2011	324.17	29.60	ND	ND	294.57	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	8	0.025 J	
	12/29/2011	324.17	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS
06/01/2012	324.17	28.17	ND	ND	296.00	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	4 J	ND(0.020)		
MW-11	10/16/2009	NM	NM	NM	NM	NM	15.3	ND(10)	ND(10)	10.9	26.2	38400	35.6	
	06/22/2010	329.64	29.00	ND	ND	300.64	ND(50)	ND(70)	ND(80)	ND(80)	BRL	170000	150	
	09/30/2010	329.64	31.42	ND	ND	298.22	ND(50)	ND(70)	ND(80)	ND(80)	BRL	130000	93	
	12/16/2010	329.64	31.22	ND	ND	298.42	ND(25)	ND(35)	ND(40)	ND(40)	BRL	41000	30	
	02/17/2011	329.64	31.81	ND	ND	297.83	ND(10)	ND(14)	ND(16)	ND(16)	BRL	23000	15	
	05/24/2011	329.64	30.56	ND	ND	299.08	ND(13)	ND(18)	ND(20)	ND(20)	BRL	16000	19	
	09/02/2011	329.64	33.22	ND	ND	296.42	4 J	ND(4)	ND(4)	ND(4)	4 J	7400	8.5	
	12/29/2011	329.64	31.29	ND	ND	298.35	ND(10)	ND(14)	ND(16)	ND(16)	BRL	9000	7.3	
06/01/2012	329.64	31.77	ND	ND	297.87	7 J	21 J	ND(8)	34 J	62 J	4200	5.2		

Table 3 (Continued)
Groundwater Monitoring & Analytical Data

Fairfax Facility #26140
 9901 Georgetown Pike
 Great Falls, Virginia
 July 24, 2009 through June 1, 2012

Well ID	Date	Gauging Data					Analytical Data							Comments
		Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydrocarbon (feet)	Hydrocarbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-gasoline range organics	
MW-12 (110)	05/24/2011	326.43	28.12	ND	ND	298.31	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	ND(0.5)	ND(0.020)	
	09/02/2011	326.43	32.37	ND	ND	294.06	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	ND(0.5)	ND(0.020)	
	12/22/2011	326.43	29.63	ND	ND	296.80	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	ND(0.5)	ND(0.020)	
	06/01/2012	326.43	29.75	ND	ND	296.68	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	ND(0.5)	ND(0.020)	
MW-12(127)	12/22/2011	326.43	29.63	ND	ND	296.80	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	ND(0.5)	ND(0.020)	
MW-12(141)	12/22/2011	326.43	29.63	ND	ND	296.80	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	ND(0.5)	ND(0.020)	
MW-12(153)	05/24/2011	326.43	28.12	ND	ND	298.31	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	ND(0.5)	ND(0.020)	
	09/02/2011	326.43	32.37	ND	ND	294.06	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	ND(0.5)	ND(0.020)	
	06/01/2012	326.43	29.75	ND	ND	296.68	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	ND(0.5)	ND(0.020)	
MW-13	09/02/2011	332.00	34.37	ND	ND	297.63	5	ND(0.7)	ND(0.8)	5	10	6800	6.2	
	12/29/2011	332.00	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	
	06/01/2012	332.00	32.88	ND	ND	299.12	ND(5)	ND(7)	ND(8)	ND(8)	BRL	5700	4.6	
MW-14	09/02/2011	331.81	35.02	ND	ND	296.79	54	ND(4)	ND(4)	55	109	170000	120	
	12/29/2011	331.81	33.36	ND	ND	298.45	ND(50)	ND(70)	ND(80)	ND(80)	BRL	99000	72	
	06/01/2012	331.81	33.90	ND	ND	297.91	ND(50)	ND(70)	ND(80)	ND(80)	BRL	91000	67	
MW-15	09/02/2011	328.95	33.06	ND	ND	295.89	ND(0.5)	ND(0.7)	ND(0.8)	1 J	1 J	21000	14	
	12/29/2011	328.95	31.10	ND	ND	297.85	ND(1)	ND(1)	ND(2)	ND(2)	BRL	1100	1.3	
	06/01/2012	328.95	31.64	ND	ND	297.31	ND(10)	ND(14)	ND(16)	ND(16)	BRL	14000	9.7	
MW-16D(89)	12/22/2011	332.90	34.88	ND	ND	298.02	ND(3)	ND(4)	ND(4)	ND(4)	BRL	2600	2.5	
MW-16D(83.5-96)	03/01/2012	332.90	NM	NM	NM	NM	ND(25)	ND(25)	ND(25)	ND(25)	BRL	2500	NA	
MW-16D(95)	06/01/2012	323.09	35.33	ND	ND	287.76	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	140	0.31	Interval sealed 4/20/12
MW-16D(110)	12/22/2011	332.90	34.88	ND	ND	298.02	ND(3)	ND(4)	ND(4)	ND(4)	BRL	2600	2.7	
MW-16D(125)	12/22/2011	332.90	34.88	ND	ND	298.02	ND(3)	ND(4)	ND(4)	ND(4)	BRL	2500	2.7	Interval sealed 4/20/12
PW-1	08/17/2009	NM	NM	NM	NM	NM	0.76	ND(0.50)	ND(0.50)	0.46 J	1.22 J	1320	NA	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data

Fairfax Facility #26140

9901 Georgetown Pike

Great Falls, Virginia

July 24, 2009 through June 1, 2012

Well ID	Date	Gauging Data					Analytical Data							Comments
		Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydrocarbon (feet)	Hydrocarbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-gasoline range organics	
PW-1(65)	10/16/2009	NM	NM	NM	NM	NM	8	ND	ND	8.4	16	250	0.00187	
	06/22/2010	NSVD	34.47	ND	ND	NSVD	8	ND(0.7)	ND(0.8)	7	15	1600	2.2	
	09/30/2010	NSVD	36.84	ND	ND	NSVD	9	ND(0.7)	ND(0.8)	5 J	14 J	1600	2	
	12/16/2010	NSVD	36.51	ND	ND	NSVD	6 J	ND(1)	ND(2)	5 J	11 J	1700	1.9	
	05/24/2011	NSVD	35.87	ND	ND	NSVD	8 J	ND(4)	ND(4)	4 J	12 J	2100	2.7	
	09/02/2011	334.54	38.61	ND	ND	295.93	6	ND(0.7)	ND(0.8)	3 J	9 J	1800	2.1	
	12/22/2011	334.53	36.37	ND	ND	298.16	4 J	ND(4)	ND(4)	ND(4)	4 J	1300	1.7	
06/01/2012	334.54	36.82	ND	ND	297.72	3 J	ND(1)	ND(2)	ND(2)	3 J	860	1.0		
PW-1(85)	06/22/2010	NSVD	34.47	ND	ND	NSVD	8	ND(0.7)	ND(0.8)	5	13	2000	2.4	
	09/30/2010	NSVD	36.85	ND	ND	NSVD	9	ND(0.7)	ND(0.8)	6	15	1700	2	
	12/16/2010	NSVD	36.51	ND	ND	NSVD	8	ND(0.7)	ND(0.8)	6	14	1900	2	
	05/24/2011	NSVD	35.87	ND	ND	NSVD	6 J	ND(1)	ND(2)	3 J	9 J	2100	2.4	
	09/02/2011	334.54	38.61	ND	ND	295.93	5 J	ND(0.7)	ND(0.8)	2 J	7 J	1600	2.0	Interval sealed 11/22/2011
PW-1(105)	10/16/2009	NM	NM	NM	NM	NM	5.8	ND	ND	4.1	9.9	1180	0.00371	
	06/22/2010	NSVD	34.47	ND	ND	NSVD	5 J	ND(1)	ND(2)	3 J	8 J	2300	2.6	
	09/30/2010	NSVD	36.85	ND	ND	NSVD	9	ND(0.7)	ND(0.8)	5	14	1800	2	
	12/16/2010	NSVD	36.51	ND	ND	NSVD	8 J	ND(1)	ND(2)	5 J	13 J	1700	2.1	
	05/24/2011	NSVD	35.87	ND	ND	NSVD	5 J	ND(1)	ND(2)	2 J	7 J	1900	2.1	
	09/02/2011	334.54	38.61	ND	ND	295.93	3 J	ND(0.7)	ND(0.8)	1 J	4 J	1400	1.7	Interval sealed 11/22/2011

Table 3 (Continued)
Groundwater Monitoring & Analytical Data

Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
July 24, 2009 through June 1, 2012

Notes:

- µg/L - micrograms per liter (µg/L)
- BRL - Below laboratory reporting limits
- BTEX - Benzene, toluene, ethylbenzene, and total xylenes
- GW - Groundwater
- J - Indicates an estimated value
- mg/L - milligram per liter (mg/L)
- NA - Not analyzed
- ND - Not detected
- ND(5.0) - Not detected at or above the laboratory reporting limit, laboratory reporting limit included.
- NM - Not monitored
- NS - Not sampled
- NSVD - Not surveyed to vertical datum

**APPENDIX A:
Monitoring Well Boring and Construction Logs**



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Boring No. MW-13

Project Name: Fairfax Facility #26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No.: 121473
Client: Fairfax Petroleum Realty LLC
Drilling Company: B.L. Myers Bros.
Driller: J. Long
Drill Rig Type: Mobile B-61
Drilling Method: 6.25 inch Hollow Stem Augers
Sampling Method: Split Spoon

Start Date: 8-18-11
End Date: 8-23-11
Total Hole Depth: 47 feet
Hole Diameter: 10 inches
Depth to Bedrock: Not encountered
Surface Elevation: 332.00
Water Level (Initial): 31 feet
Water Level (Static): 34.37
Logged By (Geol.): R. Reeves

Permit No.: NA
License No.: NA
Checked By: BB
Notes: Airknife to 7.5 feet

SUBSURFACE PROFILE			SAMPLE						
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	Blows/6 in	PID (ppm)	Well Construction	Depth (feet)		
0		Ground Surface					0		
0		Concrete					0		
1		SM Fine SAND with silt and some clay, dark orange-brown, damp			0.0	Portland Cement / Bentonite Grout	1		
2					0.0		2		
3							0.0	3	
4		SM Fine SAND with silt and some clay, dark brown, dry			0.0		4		
5							5		
6							0.0	6	
7		ML SILT with fine sand, dark orange-brown, damp, micaceous					Bentonite	7	
8								3	8
9								4	9
10								6	10
11						9		11	
12		ML SILT with fine sand and some clay, dark orange-brown, damp to moist, micaceous				Bentonite		12	
13								7	13
14								9	14
15								29.9	15
16								16.0	16
17		ML SILT with fine sand and some clay, dark orange-brown, damp to moist, micaceous					Bentonite	17	
18								23.3	18
19								96.8	19
20								158	20
21									21
22						22			
23						23			
24						24			

PID - Photoionization Detector
NA - Not Applicable
NS - Not Sampled
NM - Not Measured
MU - Meter Units
PP - Pocket Penetrometer Reading (tons/sq. foot)



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Boring No. MW-13

Project Name: Fairfax Facility #26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No.: 121473
Client: Fairfax Petroleum Realty LLC
Drilling Company: B.L. Myers Bros.
Driller: J. Long
Drill Rig Type: Mobile B-61
Drilling Method: 6.25 inch Hollow Stem Augers
Sampling Method: Split Spoon

Start Date: 8-18-11
End Date: 8-23-11
Total Hole Depth: 47 feet
Hole Diameter: 10 inches
Depth to Bedrock: Not encountered
Surface Elevation: 332.00
Water Level (Initial): 31 feet
Water Level (Static): 34.37
Logged By (Geol.): R. Reeves

Permit No.: NA
License No.: NA
Checked By: BB
Notes: Airknife to 7.5 feet

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	Blows/6 in	PID (ppm)	Well Construction	Depth (feet)
25		ML SILT with fine sand and some clay, dark orange-brown, moist, micaceous		25	151		25
26				28			26
27				3			27
28				12			28
29				19			29
30		ML SILT with fine sand and some clay, dark orange-brown and dark brown, wet, micaceous	MW-13 (27-29)	24	364		27
31				18			28
32				26			29
33				20			30
34				19			31
35		ML SILT with fine sand and some clay, brown and olive brown, wet, micaceous		9	77.4		32
36				18			33
37				30			34
38				34			35
39				42			36
40		ML SILT with fine sand and some clay, brown and olive brown, wet, micaceous		21	7.6		37
41				29			38
42				32			39
43				32			40
44							41
45				9	60.1		42
46				12			43
47				19			44
48				22			45
48		End of Borehole					48

#2 Silica Sand

4" 0.020-inch Slotted Screen

PID - Photoionization Detector
NA - Not Applicable
NS - Not Sampled
NM - Not Measured
MU - Meter Units
PP - Pocket Penetrometer Reading (tons/sq. foot)



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Boring No. MW-14

Project Name: Fairfax Facility #26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 121473
Client: Fairfax Petroleum Realty LLC
Drilling Company: B.L. Myers Bros.
Driller: J. Long
Drill Rig Type: Mobile B-61
Drilling Method: 6.25 inch Hollow Stem Augers
Sampling Method: Split Spoon

Start Date: 8-18-11
End Date: 8-23-11
Total Hole Depth: 47 feet
Hole Diameter: 10 inches
Depth to Bedrock: Not encountered
Surface Elevation: 331.81
Water Level (Initial): 31 feet
Water Level (Static): 35.02
Logged By (Geol.): R. Reeves

Permit No.: NA
License No.: NA
Checked By: BB
Notes: Airknife to 5 feet

SUBSURFACE PROFILE			SAMPLE					
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	Blows/6 in	PID (ppm)	Well Construction	Depth (feet)	
0		Ground Surface					0	
0		Concrete					0	
1		SM Fine SAND with silt and some clay, dark orange-brown, damp			0.0	Portland Cement / Bentonite Grout	1	
2					0.0		2	
3							0.0	3
4		SM Fine SAND with silt and some clay, light orange-brown, damp					4	
5							5	
6								6
6		SM Fine SAND with silt and some clay, light brown and light orange-brown, damp		3			Bentonite	6
7				5	0.0			7
8				7				8
9								9
10		ML SILT with fine sand and some clay, light brown and light orange-brown, dry to damp, micaceous		6		4" PVC Riser		10
11				9	0.0			11
12				7				12
13				11				13
14								14
15				6				15
16				10	2.2		16	
17				11			17	
18				15			18	
19				17			19	
20				22	2.0	20		
21				32		21		
22				36		22		
23				7	5.8	23		
24				20		24		
				26				
				24	1.9			
				27				
				29				
				34				
				37				
				22				
				27	1.2			
				32				

PID - Photoionization Detector
NA - Not Applicable
NS - Not Sampled
NM - Not Measured
MU - Meter Units
PP - Pocket Penetrometer Reading (tons/sq. foot)



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Boring No. MW-14

Project Name: Fairfax Facility #26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No.: 121473
Client: Fairfax Petroleum Realty LLC
Drilling Company: B.L. Myers Bros.
Driller: J. Long
Drill Rig Type: Mobile B-61
Drilling Method: 6.25 inch Hollow Stem Augers
Sampling Method: Split Spoon

Start Date: 8-18-11
End Date: 8-23-11
Total Hole Depth: 47 feet
Hole Diameter: 10 inches
Depth to Bedrock: Not encountered
Surface Elevation: 331.81
Water Level (Initial): 31 feet
Water Level (Static): 35.02
Logged By (Geol.): R. Reeves

Permit No.: NA
License No.: NA
Checked By: BB
Notes: Airknife to 5 feet

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	Blows/6 in	PID (ppm)	Well Construction	Depth (feet)
25		ML SILT with fine sand and some clay, light brown to olive brown, moist, micaceous		32	20.9		25
26				38			26
27				11			27
28				15			28
29				22			29
30				32			30
31		ML SILT with fine sand and some clay, light brown to olive brown, wet, micaceous	MW-14 (29-31)	6	117		31
32				8			32
33				13			33
34				19			34
35				8			35
36				20			36
37				22	89.1		37
38				24			38
39				8			39
40				9			40
41				18	148		41
42				21			42
43				6			43
44				8			44
45				11	28.1		45
46				14			46
47							47
48		End of Borehole					48

PID - Photoionization Detector
NA - Not Applicable
NS - Not Sampled
NM - Not Measured
MU - Meter Units
PP - Pocket Penetrometer Reading (tons/sq. foot)



1340 Charwood Road, Suite I
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(410) 850-0404

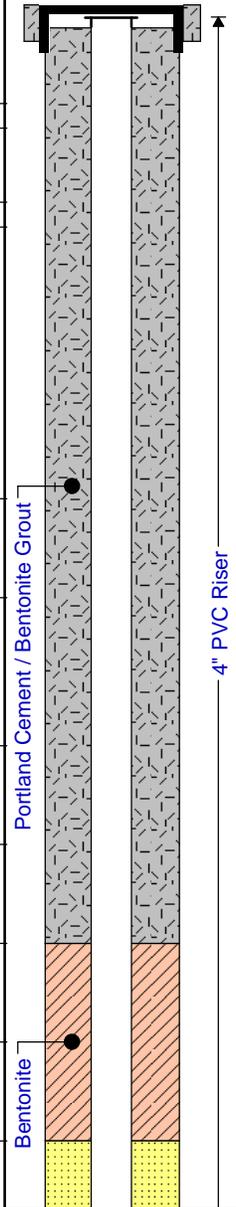
BORING LOG
Boring No. MW-15

Project Name: Fairfax Facility #26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No.: 121473
Client: Fairfax Petroleum Realty LLC
Drilling Company: B.L. Myers Bros.
Driller: J. Long
Drill Rig Type: Mobile B-61
Drilling Method: 6.25 inch Hollow Stem Augers
Sampling Method: Split Spoon

Start Date: 8-18-11
End Date: 8-22-11
Total Hole Depth: 45 feet
Hole Diameter: 10 inches
Depth to Bedrock: Not encountered
Surface Elevation: 328.95
Water Level (Initial): 35 feet
Water Level (Static): 33.06
Logged By (Geol.): R. Reeves

Permit No.: NA
License No.: NA
Checked By: BB
Notes: Airknife to 5 feet

SUBSURFACE PROFILE			SAMPLE				
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	Blows/6 in	PID (ppm)	Well Construction	Depth (feet)
0		Ground Surface					0
0		Concrete					0
1		CL Clay with silt, dark brown, damp			0.0		1
2							2
3					0.0		3
4		SM Fine SAND with silt and some clay, dark orange-brown, dry to damp		502"			4
5		No Recovery					5
6							6
7							7
8							8
9							9
10		SM Fine SAND with silt and some clay, brown, dry to damp		503"	0.0		10
11							11
12							12
13							13
14							14
15		ML SILT with fine sand and some clay, light brown and light orange-brown, damp, micaceous		21			15
16				13	0.0		16
17				16			17
18				20			18
19				20			19
20				18	0.0		20
21				26			21
22				32			22
23				10			23
24				14	0.0		24
				14			
				22			
				10			
				10	0.0		
				12			
				16			
				12			
				19	0.0		
				21			



PID - Photoionization Detector
NA - Not Applicable
NS - Not Sampled
NM - Not Measured
MU - Meter Units
PP - Pocket Penetrometer Reading (tons/sq. foot)



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Boring No. MW-15

Project Name: Fairfax Facility #26140
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No.: 121473
Client: Fairfax Petroleum Realty LLC
Drilling Company: B.L. Myers Bros.
Driller: J. Long
Drill Rig Type: Mobile B-61
Drilling Method: 6.25 inch Hollow Stem Augers
Sampling Method: Split Spoon

Start Date: 8-18-11
End Date: 8-22-11
Total Hole Depth: 45 feet
Hole Diameter: 10 inches
Depth to Bedrock: Not encountered
Surface Elevation: 328.95
Water Level (Initial): 35 feet
Water Level (Static): 33.06
Logged By (Geol.): R. Reeves

Permit No.: NA
License No.: NA
Checked By: BB
Notes: Airknife to 5 feet

SUBSURFACE PROFILE			SAMPLE									
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	Blows/6 in	PID (ppm)	Well Construction	Depth (feet)					
25				21	2.6		25					
26				23			7	26				
27				8			10	27				
28				16			14	28				
29				19			21	29				
30				21			23	30				
31				ML SILT with fine sand and some clay, brown, moist, micaceous				1	0.0		31	
32								3			14	32
33								26			33	
34								8			20	34
35				ML SILT with fine sand and some clay, brown, wet, micaceous			MW-15 (33-35)	42	7.8		35	
36								46			36	
37				ML SILT with fine sand and some clay, gray and orange-brown, wet, micaceous					10.2		37	
38											38	
39											39	
40											40	
41											41	
42											42	
43											43	
44											44	
45				End of Borehole					48.3		45	
46											46	
47											47	
48	48											

PID - Photoionization Detector
NA - Not Applicable
NS - Not Sampled
NM - Not Measured
MU - Meter Units
PP - Pocket Penetrometer Reading (tons/sq. foot)



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Boring No. MW-16D

Project Name: Fairfax Facility #26140 Great Falls
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 119667
Client: Fairfax Petroleum Realty LLC
Drilling Company: B.L. Myers Bros.
Driller: D. Ferrel
Drill Rig Type: Schramm T450W
Drilling Method: Air Rotary
Sampling Method: Grab / Cuttings

Start Date: 11-21-11
End Date: 11-22-11
Total Hole Depth: 150 feet
Hole Diameter: 10"(0-85), 6"(85-150)
Depth to Bedrock: 46 feet
Surface Elevation: 332.90 feet
Water Level (Initial): NA
Water Level (Static): 34.47 feet
Logged By (Geol.): C. Low

Permit No.: NA
License No.: NA
Checked By: B. Barone
Notes: Airknife to 5 feet

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
0		Ground Surface				0
1		Concrete with rebar				1
2		SM Silty fine SAND, red-brown, moist		0.3		2
3				0.1		3
4						4
5						5
6						6
7		ML Sandy SILT, light brown, dry, slightly micaceous				7
8						8
9						9
10				0.4		10
11						11
12						12
13						13
14						14
15						15
16						16
17		ML Sandy SILT, light brown, moist, slightly micaceous				17
18						18
19						19
20				17.6		20
21						21
22						22
23						23
24						24
25						25
26						26
27		Saprolitic at 27 feet			27	
28					28	
29					29	
30			32.1		30	
31					31	
32					32	
33					33	
34					34	
35					35	
36					36	
37					37	
38					38	
39					39	
40					40	
41		ML Sandy SILT, olive-brown, moist, slightly micaceous, with rock fragments		19.8		41
42						42
43						43
44					44	
45					45	
46		Bk Schist, gray				46
47						47
48						48
49						49
50				12.5		50
51						51
52						52
53						53
54						54
55				55		

PID - Photoionization Detector
NA - Not Applicable
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MU - Meter Units
PP - Pocket Penetrometer Reading (tons/sq. foot)



1340 Charwood Road, Suite I
Hanover, MD 21076
(410) 850-0404

BORING LOG
Boring No. MW-16D

Project Name: Fairfax Facility #26140 Great Falls
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 119667
Client: Fairfax Petroleum Realty LLC
Drilling Company: B.L. Myers Bros.
Driller: D. Ferrel
Drill Rig Type: Schramm T450W
Drilling Method: Air Rotary
Sampling Method: Grab / Cuttings

Start Date: 11-21-11
End Date: 11-22-11
Total Hole Depth: 150 feet
Hole Diameter: 10"(0-85), 6"(85-150)
Depth to Bedrock: 46 feet
Surface Elevation: 332.90 feet
Water Level (Initial): NA
Water Level (Static): 34.47 feet
Logged By (Geol.): C. Low

Permit No.: NA
License No.: NA
Checked By: B. Barone
Notes: Airknife to 5 feet

SUBSURFACE PROFILE			SAMPLE			
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)
56						56
57						57
58						58
59						59
60						60
61						61
62						62
63						63
64						64
65						65
66						66
67						67
68						68
69						69
70						70
71						71
72						72
73						73
74						74
75						75
76						76
77						77
78						78
79						79
80						80
81						81
82						82
83						83
84						84
85						85
86						86
87						87
88						88
89						89
90						90
91						91
92						92
93						93
94						94
95						95
96						96
97						97
98						98
99						99
100						100
101						101
102						102
103						103
104						104
105						105
106						106
107						107
108						108
109						109
110						110

Water bearing fracture at 85-86 feet

Water bearing fracture at ~95 feet

Bedrock

6.1

8.4

3.2

0.8

4.3

PID - Photoionization Detector
NA - Not Applicable
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MU - Meter Units
PP - Pocket Penetrometer Reading (tons/sq. foot)



1340 Charwood Road, Suite I
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BORING LOG
Boring No. MW-16D

Project Name: Fairfax Facility #26140 Great Falls
Site Location: 9901 Georgetown Pike, Great Falls, VA
Kleinfelder Project No: 119667
Client: Fairfax Petroleum Realty LLC
Drilling Company: B.L. Myers Bros.
Driller: D. Ferrel
Drill Rig Type: Schramm T450W
Drilling Method: Air Rotary
Sampling Method: Grab / Cuttings

Start Date: 11-21-11
End Date: 11-22-11
Total Hole Depth: 150 feet
Hole Diameter: 10"(0-85), 6"(85-150)
Depth to Bedrock: 46 feet
Surface Elevation: 332.90 feet
Water Level (Initial): NA
Water Level (Static): 34.47 feet
Logged By (Geol.): C. Low

Permit No.: NA
License No.: NA
Checked By: B. Barone
Notes: Airknife to 5 feet

SUBSURFACE PROFILE			SAMPLE					
Depth (feet)	Graphic Log	Soil/Geologic Description (Unified Soil Classification System)	Sample ID	PID (ppm)	Well Construction	Depth (feet)		
111		Water bearing fracture at 110 feet		2.2		111		
112							112	
113							113	
114							114	
115							115	
116							116	
117							117	
118							118	
119							119	
120							120	
121		Bk Schist, black, some quartz grains		1.9		121		
122							122	
123								123
124								124
125								125
126								126
127								127
128								128
129								129
130								130
131		Bk Schist, olive-brown, some quartz grains		2.2		131		
132							132	
133								133
134								134
135								135
136								136
137								137
138								138
139								139
140								140
141		End of Borehole		1.6		141		
142							142	
143								143
144								144
145								145
146								146
147								147
148								148
149								149
150							1.1	150
151						151		
152							152	
153								153
154								154
155								155
156								156
157								157
158								158
159								159
160								160
161								161
162								162
163								163
164								164
165								165

PID - Photoionization Detector
NA - Not Applicable
NS - Not Sampled
NM - Not Measured
MU - Meter Units
PP - Pocket Penetrometer Reading (tons/sq. foot)

APPENDIX B:
Lancaster Laboratories Analysis Report - Soil

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Kleinfelder
30 Porter Road
Littleton MA 01460

September 27, 2011

Project: Fairfax 26140

Submittal Date: 08/25/2011

Group Number: 1263578

PO Number: 51141-160172

State of Sample Origin: VA

Client Sample Description

MW-13 (27-29) Grab Soil

MW-14 (29-31) Grab Soil

MW-15 (33-35) Grab Soil

Lancaster Labs (LLI) #

6387973

6387974

6387975

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC Kleinfelder

COPY TO

Attn: Mark Steele

ELECTRONIC Kleinfelder

COPY TO

Attn: Angela Vogt

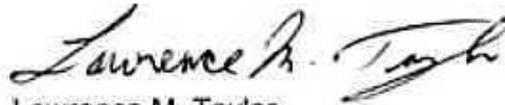
ELECTRONIC Kleinfelder

COPY TO

Attn: Brian Barone

Questions? Contact your Client Services Representative
Natalie R Luciano at (717) 656-2300 Ext. 1881

Respectfully Submitted,



Lawrence M. Taylor
Senior Specialist



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-13 (27-29) Grab Soil
Fairfax Petroleum 26140

LLI Sample # SW 6387973
LLI Group # 1263578
Account # 12152

Project Name: Fairfax 26140

Collected: 08/23/2011 09:40 by RR

Kleinfelder

30 Porter Road

Submitted: 08/25/2011 16:00

Littleton MA 01460

Reported: 09/27/2011 16:26

FFX13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10950	Benzene	71-43-2	< 0.30	0.30	43.63
10950	Ethylbenzene	100-41-4	< 0.30	0.30	43.63
10950	Methyl Tertiary Butyl Ether	1634-04-4	36	3.0	436.3
10950	Naphthalene	91-20-3	< 0.30	0.30	43.63
10950	Toluene	108-88-3	< 0.30	0.30	43.63
10950	Xylene (Total)	1330-20-7	< 0.30	0.30	43.63
GC Volatiles SW-846 8015B			mg/kg	mg/kg	
01637	TPH-GRO soil C6-C10	n.a.	13	1.3	22.89
Wet Chemistry SM20 2540 G			%	%	
00111	Moisture	n.a.	27.8	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	UST BTEX/MTBE/Naph in Soil	SW-846 8260B	1	Q112421AA	08/30/2011 18:57	Kelly E Keller	43.63
10950	UST BTEX/MTBE/Naph in Soil	SW-846 8260B	1	Q112421AA	08/30/2011 19:20	Kelly E Keller	436.3
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201123825370	08/23/2011 09:40	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201123825370	08/23/2011 09:40	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201123825370	08/23/2011 09:40	Client Supplied	1
01637	TPH-GRO soil C6-C10	SW-846 8015B	1	11242A34A	08/30/2011 17:22	Marie D John	22.89
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201123825370	08/23/2011 09:40	Client Supplied	n.a.
00111	Moisture	SM20 2540 G	1	11241820002B	08/29/2011 19:00	Scott W Freisher	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

**Sample Description: MW-14 (29-31) Grab Soil
Fairfax Petroleum 26140**

**LLI Sample # SW 6387974
LLI Group # 1263578
Account # 12152**

Project Name: Fairfax 26140

Collected: 08/23/2011 14:45 by RR Kleinfelder
30 Porter Road
Submitted: 08/25/2011 16:00 Littleton MA 01460
Reported: 09/27/2011 16:26

FFX14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10950	Benzene	71-43-2	< 0.005	0.005	0.87
10950	Ethylbenzene	100-41-4	< 0.005	0.005	0.87
10950	Methyl Tertiary Butyl Ether	1634-04-4	7.7	0.26	42.16
10950	Naphthalene	91-20-3	< 0.005	0.005	0.87
10950	Toluene	108-88-3	< 0.005	0.005	0.87
10950	Xylene (Total)	1330-20-7	< 0.005	0.005	0.87
GC Volatiles SW-846 8015B			mg/kg	mg/kg	
01637	TPH-GRO soil C6-C10	n.a.	2.3	1.1	21.48
Wet Chemistry SM20 2540 G			%	%	
00111	Moisture	n.a.	20.2	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	UST BTEX/MTBE/Naph in Soil	SW-846 8260B	1	X112421AA	08/30/2011 14:53	Chelsea B Eastep	0.87
10950	UST BTEX/MTBE/Naph in Soil	SW-846 8260B	1	Q112421AA	08/30/2011 19:44	Kelly E Keller	42.16
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201123825370	08/23/2011 14:45	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201123825370	08/23/2011 14:45	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201123825370	08/23/2011 14:45	Client Supplied	1
01637	TPH-GRO soil C6-C10	SW-846 8015B	1	11242A34A	08/30/2011 18:36	Marie D John	21.48
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201123825370	08/23/2011 14:45	Client Supplied	n.a.
00111	Moisture	SM20 2540 G	1	11241820002B	08/29/2011 19:00	Scott W Freisher	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

**Sample Description: MW-15 (33-35) Grab Soil
Fairfax Petroleum 26140**

**LLI Sample # SW 6387975
LLI Group # 1263578
Account # 12152**

Project Name: Fairfax 26140

Collected: 08/22/2011 15:15 by RR

Kleinfelder

30 Porter Road

Submitted: 08/25/2011 16:00

Littleton MA 01460

Reported: 09/27/2011 16:26

FFX15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10950	Benzene	71-43-2	< 0.005	0.005	0.85
10950	Ethylbenzene	100-41-4	< 0.005	0.005	0.85
10950	Methyl Tertiary Butyl Ether	1634-04-4	0.69	0.25	41.46
10950	Naphthalene	91-20-3	< 0.005	0.005	0.85
10950	Toluene	108-88-3	< 0.005	0.005	0.85
10950	Xylene (Total)	1330-20-7	< 0.005	0.005	0.85
GC Volatiles SW-846 8015B			mg/kg	mg/kg	
01637	TPH-GRO soil C6-C10	n.a.	< 0.9	0.9	19.81
Wet Chemistry SM20 2540 G			%	%	
00111	Moisture	n.a.	16.2	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10950	UST BTEX/MTBE/Naph in Soil	SW-846 8260B	1	X112421AA	08/30/2011 15:16	Chelsea B Eastep	0.85
10950	UST BTEX/MTBE/Naph in Soil	SW-846 8260B	1	Q112421AA	08/30/2011 20:07	Kelly E Keller	41.46
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201123825370	08/22/2011 15:15	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201123825370	08/22/2011 15:15	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201123825370	08/22/2011 15:15	Client Supplied	1
01637	TPH-GRO soil C6-C10	SW-846 8015B	1	11242A34A	08/30/2011 16:06	Marie D John	19.81
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201123825370	08/22/2011 15:15	Client Supplied	n.a.
00111	Moisture	SM20 2540 G	1	11241820002B	08/29/2011 19:00	Scott W Freisher	1

Quality Control Summary

 Client Name: Kleinfelder
 Reported: 09/27/11 at 04:26 PM

Group Number: 1263578

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: Q112421AA	Sample number(s): 6387973-6387975							
Benzene	< 0.25	0.25	mg/kg	99	99	80-120	0	30
Ethylbenzene	< 0.25	0.25	mg/kg	99	100	80-120	1	30
Methyl Tertiary Butyl Ether	< 0.25	0.25	mg/kg	100	103	74-121	3	30
Naphthalene	< 0.25	0.25	mg/kg	86	93	59-123	8	30
Toluene	< 0.25	0.25	mg/kg	102	103	80-120	2	30
Xylene (Total)	< 0.25	0.25	mg/kg	99	101	80-120	2	30
Batch number: X112421AA	Sample number(s): 6387974-6387975							
Benzene	< 0.005	0.005	mg/kg	101	94	80-120	8	30
Ethylbenzene	< 0.005	0.005	mg/kg	106	98	80-120	8	30
Naphthalene	< 0.005	0.005	mg/kg	91	87	59-123	5	30
Toluene	< 0.005	0.005	mg/kg	105	99	80-120	6	30
Xylene (Total)	< 0.005	0.005	mg/kg	109	101	80-120	7	30
Batch number: 11242A34A	Sample number(s): 6387973-6387975							
TPH-GRO soil C6-C10	< 1.0	1.0	mg/kg	87	97	67-119	11	30
Batch number: 11241820002B	Sample number(s): 6387973-6387975							
Moisture				100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 11241820002B	Sample number(s): 6387973-6387975 BKG: P387509								
Moisture						15.6	13.3	16*	15

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

 Analysis Name: VOCs TCL (4.3) 8260 Soil
 Batch number: Q112421AA

Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Kleinfelder
Reported: 09/27/11 at 04:26 PM

Group Number: 1263578

Surrogate Quality Control

6387973	73	74	78	75
Blank	90	93	95	91
LCS	92	96	97	94
LCSD	90	90	95	94

Limits: 71-114 70-109 70-123 70-111

Analysis Name: VOCs TCL (4.3) 8260 Soil
Batch number: X112421AA

Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene

6387974	98	95	95	93
6387975	98	95	92	91
Blank	105	99	93	93
LCS	103	103	103	97
LCSD	103	102	103	96

Limits: 71-114 70-109 70-123 70-111

Analysis Name: TPH-GRO soil C6-C10
Batch number: 11242A34A

Trifluorotoluene-F

6387973	76
6387974	79
6387975	74
Blank	95
LCS	95
LCSD	97

Limits: 61-122

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

**APPENDIX C:
Non-Hazardous Waste Manifests**

For Facility Use Only

I.D.# 62333

NON-HAZARDOUS MANIFEST

For Facility Use Only

Manifest#69113

Date:

Reco BIOTECHNOLOGY
710 Hospital Street
Richmond, VA 23219
(804) 644-2800

Generator: Name Fairfax Facility # 26140 Contact Name Ryan Reeves
Address 6820-B Commercial Dr Telephone 410-850-0404
Springfield, VA ext 0795
SITE: EXXON - 9901 Georgetown Pike, Great Falls VA

Transporter: Name IPS Contact Name AJ Anonick
or Carrier Address Midlothian Telephone 804-335-1077

Destination: Reco Biotechnology Contact Reco Biotechnology
Delivery Address 710 Hospital Street Telephone (804) 644-2800
Richmond, VA 23219

Route: _____

NO. of Packages	(* Container	Shipping Description	Soil Weight (Sub. to Cor.)
14	DM	Non-Regulated Material non-regulated None None (petroleum contaminated soil)	

- * - DM = Drum
- DT = Dump Truck/Trailer
- SC = Steel Container
- RC = Rail Car

Truck #: _____ *Gross Weight: _____

Tare Weight: _____

Net Weight: _____

* May attach weight tickets

Certification:

I/We certify that the above material is not a HAZARDOUS WASTE as defined by the Resource Conservation and Recovery Act (RCRA), Virginia Hazardous Waste Management Regulations or as defined by the state of origin.

PRINTED/TYPED NAME & TITLE

SIGNATURE

DATE

Truck Driver's Signature: Jesse Rivers Date: 8/30/2011

Discrepancies: _____

RECEIVED BY: Reco Biotechnology

SIGNED BY: [Signature]

DATE: 8/30/11

Aqua Clean of Virginia, LLC dba Reco Biotechnology

APPENDIX D:
Lancaster Laboratories Analysis Reports - Groundwater

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Kleinfelder
30 Porter Road
Littleton MA 01460

September 16, 2011

Project: Fairfax 26140

Submittal Date: 09/03/2011

Group Number: 1264918

PO Number: 08531-117575

State of Sample Origin: VA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
MW-1 Grab Water	6396813
MW-2 Grab Water	6396814
MW-5 Grab Water	6396815
MW-6S Grab Water	6396816
MW-6D (65 ft) Grab Water	6396817
MW-6D (85 ft) Grab Water	6396818
MW-6D (105 ft) Grab Water	6396819
MW-7 Grab Water	6396820
MW-8 Grab Water	6396821
MW-9 Grab Water	6396822
MW-10 Grab Water	6396823
MW-11 Grab Water	6396824
MW-12 (110 ft) Grab Water	6396825
MW-12 (153 ft) Grab Water	6396826
PW-01 (65 ft) Grab Water	6396827
PW-01 (85 ft) Grab Water	6396828
PW-01 (105 ft) Grab Water	6396829
MW-13 Grab Water	6396830
MW-14 Grab Water	6396831
MW-15 Grab Water	6396832

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC Kleinfelder
COPY TO

Attn: Mark Steele

ELECTRONIC Kleinfelder
COPY TO
ELECTRONIC Kleinfelder
COPY TO

Attn: Angela Vogt

Attn: Brian Barone

Questions? Contact your Client Services Representative
Natalie R Luciano at (717) 656-2300 Ext. 1881

Respectfully Submitted,



Robin C. Runkle
Senior Specialist



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: **MW-1 Grab Water**
Fairfax Petroleum 26140

LLI Sample # **WW 6396813**
LLI Group # **1264918**
Account # **12152**

Project Name: **Fairfax 26140**

Collected: 09/02/2011 09:15 by CL

Kleinfelder
30 Porter Road
Littleton MA 01460

Submitted: 09/03/2011 09:50

Reported: 09/16/2011 15:00

FFX01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	50	100
10903	Ethylbenzene	100-41-4	N.D.	80	100
10903	Methyl Tertiary Butyl Ether	1634-04-4	160,000	500	1000
10903	Toluene	108-88-3	N.D.	70	100
10903	Xylene (Total)	1330-20-7	N.D.	80	100
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	120	0.50	25

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/10/2011 04:58	Frank A Valla, Jr	100
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/10/2011 05:22	Frank A Valla, Jr	1000
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W112522AA	09/10/2011 04:58	Frank A Valla, Jr	100
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W112522AA	09/10/2011 05:22	Frank A Valla, Jr	1000
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11249E20A	09/07/2011 13:27	Tyler O Griffin	25
01146	GC VOA Water Prep	SW-846 5030B	1	11249E20A	09/07/2011 13:27	Tyler O Griffin	25



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-2 Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6396814
LLI Group # 1264918
Account # 12152

Project Name: Fairfax 26140

Collected: 09/02/2011 11:55 by CL

Kleinfelder

30 Porter Road

Submitted: 09/03/2011 09:50

Littleton MA 01460

Reported: 09/16/2011 15:00

FFX02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	50	100
10903	Ethylbenzene	100-41-4	N.D.	80	100
10903	Methyl Tertiary Butyl Ether	1634-04-4	160,000	500	1000
10903	Toluene	108-88-3	N.D.	70	100
10903	Xylene (Total)	1330-20-7	N.D.	80	100
GC	Volatiles	SW-846 8015B	mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	130	0.50	25

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/10/2011 05:47	Frank A Valla, Jr	100
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/10/2011 06:11	Frank A Valla, Jr	1000
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W112522AA	09/10/2011 05:47	Frank A Valla, Jr	100
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W112522AA	09/10/2011 06:11	Frank A Valla, Jr	1000
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11249E20A	09/07/2011 13:49	Tyler O Griffin	25
01146	GC VOA Water Prep	SW-846 5030B	1	11249E20A	09/07/2011 13:49	Tyler O Griffin	25



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-5 Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6396815
LLI Group # 1264918
Account # 12152

Project Name: Fairfax 26140

Collected: 09/02/2011 12:30 by CL

Kleinfelder

30 Porter Road

Submitted: 09/03/2011 09:50

Littleton MA 01460

Reported: 09/16/2011 15:00

FFX05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	0.9 J	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/09/2011 20:33	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W112522AA	09/09/2011 20:33	Frank A Valla, Jr	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11249E20A	09/07/2011 02:15	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	11249E20A	09/07/2011 02:15	Tyler O Griffin	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-6S Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6396816
LLI Group # 1264918
Account # 12152

Project Name: Fairfax 26140

Collected: 09/02/2011 08:30 by CL

Kleinfelder

30 Porter Road

Submitted: 09/03/2011 09:50

Littleton MA 01460

Reported: 09/16/2011 15:00

FFX6S

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	1 J	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles			SW-846 8015B	mg/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/09/2011 20:57	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W112522AA	09/09/2011 20:57	Frank A Valla, Jr	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11250B20A	09/08/2011 22:55	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11250B20A	09/08/2011 22:55	Laura M Krieger	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Sample Description: MW-6D (65 ft) Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6396817
LLI Group # 1264918
Account # 12152

Project Name: Fairfax 26140

Collected: 09/02/2011 08:55 by CL

Kleinfelder

30 Porter Road

Submitted: 09/03/2011 09:50

Littleton MA 01460

Reported: 09/16/2011 15:00

FF6D1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	0.9 J	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	0.026 J	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/09/2011 21:21	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W112522AA	09/09/2011 21:21	Frank A Valla, Jr	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11250B20A	09/08/2011 23:17	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11250B20A	09/08/2011 23:17	Laura M Krieger	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-6D (85 ft) Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6396818
LLI Group # 1264918
Account # 12152

Project Name: Fairfax 26140

Collected: 09/02/2011 08:25 by CL

Kleinfelder
30 Porter Road
Littleton MA 01460

Submitted: 09/03/2011 09:50

Reported: 09/16/2011 15:00

FF6D2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	0.9 J	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	0.029 J	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/09/2011 21:45	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W112522AA	09/09/2011 21:45	Frank A Valla, Jr	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11250B20A	09/08/2011 23:38	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11250B20A	09/08/2011 23:38	Laura M Krieger	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-6D (105 ft) Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6396819
LLI Group # 1264918
Account # 12152

Project Name: Fairfax 26140

Collected: 09/02/2011 07:55 by CL

Kleinfelder
30 Porter Road
Littleton MA 01460

Submitted: 09/03/2011 09:50

Reported: 09/16/2011 15:00

FF6D3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	0.9 J	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	0.028 J	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/09/2011 22:09	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W112522AA	09/09/2011 22:09	Frank A Valla, Jr	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11250B20A	09/09/2011 00:00	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11250B20A	09/09/2011 00:00	Laura M Krieger	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-7 Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6396820
LLI Group # 1264918
Account # 12152

Project Name: Fairfax 26140

Collected: 09/02/2011 08:55 by CL

Kleinfelder
 30 Porter Road
 Littleton MA 01460

Submitted: 09/03/2011 09:50

Reported: 09/16/2011 15:00

FFX07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	11 J	10	20
10903	Ethylbenzene	100-41-4	N.D.	16	20
10903	Methyl Tertiary Butyl Ether	1634-04-4	16,000	100	200
10903	Toluene	108-88-3	N.D.	14	20
10903	Xylene (Total)	1330-20-7	N.D.	16	20
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	14	0.10	5

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/10/2011 03:23	Frank A Valla, Jr	20
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/10/2011 03:47	Frank A Valla, Jr	200
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W112522AA	09/10/2011 03:23	Frank A Valla, Jr	20
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W112522AA	09/10/2011 03:47	Frank A Valla, Jr	200
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11250B20A	09/09/2011 14:36	Laura M Krieger	5
01146	GC VOA Water Prep	SW-846 5030B	1	11250B20A	09/09/2011 14:36	Laura M Krieger	5



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-8 Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6396821
LLI Group # 1264918
Account # 12152

Project Name: Fairfax 26140

Collected: 09/02/2011 10:30 by CL Kleinfelder
30 Porter Road
Submitted: 09/03/2011 09:50 Littleton MA 01460
Reported: 09/16/2011 15:00

FFX08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	10	20
10903	Ethylbenzene	100-41-4	N.D.	16	20
10903	Methyl Tertiary Butyl Ether	1634-04-4	15,000	100	200
10903	Toluene	108-88-3	N.D.	14	20
10903	Xylene (Total)	1330-20-7	N.D.	16	20
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	13	0.10	5

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/10/2011 04:11	Frank A Valla, Jr	20
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/10/2011 04:35	Frank A Valla, Jr	200
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W112522AA	09/10/2011 04:11	Frank A Valla, Jr	20
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W112522AA	09/10/2011 04:35	Frank A Valla, Jr	200
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11250B20A	09/09/2011 14:14	Laura M Krieger	5
01146	GC VOA Water Prep	SW-846 5030B	1	11250B20A	09/09/2011 14:14	Laura M Krieger	5



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-9 Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6396822
LLI Group # 1264918
Account # 12152

Project Name: Fairfax 26140

Collected: 09/02/2011 11:30 by CL Kleinfelder
30 Porter Road
Submitted: 09/03/2011 09:50 Littleton MA 01460
Reported: 09/16/2011 15:00

FFX09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	80	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	0.20	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/09/2011 22:33	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W112522AA	09/09/2011 22:33	Frank A Valla, Jr	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11250B20A	09/09/2011 01:06	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11250B20A	09/09/2011 01:06	Laura M Krieger	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-10 Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6396823
LLI Group # 1264918
Account # 12152

Project Name: Fairfax 26140

Collected: 09/02/2011 08:05 by CL Kleinfelder
30 Porter Road
Submitted: 09/03/2011 09:50 Littleton MA 01460
Reported: 09/16/2011 15:00

FFX10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	8	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	0.025 J	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/09/2011 22:57	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W112522AA	09/09/2011 22:57	Frank A Valla, Jr	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11250B20A	09/09/2011 01:28	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11250B20A	09/09/2011 01:28	Laura M Krieger	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-11 Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6396824
LLI Group # 1264918
Account # 12152

Project Name: Fairfax 26140

Collected: 09/02/2011 09:45 by CL Kleinfelder
30 Porter Road
Submitted: 09/03/2011 09:50 Littleton MA 01460
Reported: 09/16/2011 15:00

FFX11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	4 J	3	5
10903	Ethylbenzene	100-41-4	N.D.	4	5
10903	Methyl Tertiary Butyl Ether	1634-04-4	7,400	25	50
10903	Toluene	108-88-3	N.D.	4	5
10903	Xylene (Total)	1330-20-7	N.D.	4	5
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	8.5	0.10	5

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/10/2011 02:35	Frank A Valla, Jr	5
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/10/2011 02:59	Frank A Valla, Jr	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W112522AA	09/10/2011 02:35	Frank A Valla, Jr	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W112522AA	09/10/2011 02:59	Frank A Valla, Jr	50
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11250B20A	09/09/2011 14:57	Laura M Krieger	5
01146	GC VOA Water Prep	SW-846 5030B	1	11250B20A	09/09/2011 14:57	Laura M Krieger	5



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-12 (110 ft) Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6396825
LLI Group # 1264918
Account # 12152

Project Name: Fairfax 26140

Collected: 09/02/2011 13:05 by CL

Kleinfelder
30 Porter Road
Littleton MA 01460

Submitted: 09/03/2011 09:50

Reported: 09/16/2011 15:00

FF121

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles			SW-846 8015B	mg/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/09/2011 23:21	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W112522AA	09/09/2011 23:21	Frank A Valla, Jr	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11250B20A	09/09/2011 02:12	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11250B20A	09/09/2011 02:12	Laura M Krieger	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-12 (153 ft) Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6396826
LLI Group # 1264918
Account # 12152

Project Name: Fairfax 26140

Collected: 09/02/2011 12:35 by CL

Kleinfelder
30 Porter Road
Littleton MA 01460

Submitted: 09/03/2011 09:50

Reported: 09/16/2011 15:00

FF122

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles			SW-846 8015B	mg/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/09/2011 23:46	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W112522AA	09/09/2011 23:46	Frank A Valla, Jr	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11250B20A	09/09/2011 02:34	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11250B20A	09/09/2011 02:34	Laura M Krieger	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Sample Description: PW-01 (65 ft) Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6396827
LLI Group # 1264918
Account # 12152

Project Name: Fairfax 26140

Collected: 09/02/2011 11:25 by CL

Kleinfelder

30 Porter Road

Submitted: 09/03/2011 09:50

Littleton MA 01460

Reported: 09/16/2011 15:00

FFP11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10903	Benzene	71-43-2	6	ug/l 0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	1,800	5	10
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	3 J	0.8	1
GC Volatiles SW-846 8015B					
01635	TPH-GRO water C6-C10	n.a.	2.1	mg/l 0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/10/2011 00:10	Frank A Valla, Jr	1
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112532AA	09/10/2011 22:26	Emily R Styer	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W112522AA	09/10/2011 00:10	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W112532AA	09/10/2011 22:26	Emily R Styer	10
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11250B20A	09/09/2011 02:56	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11250B20A	09/09/2011 02:56	Laura M Krieger	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: PW-01 (85 ft) Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6396828
LLI Group # 1264918
Account # 12152

Project Name: Fairfax 26140

Collected: 09/02/2011 10:55 by CL

Kleinfelder

30 Porter Road

Submitted: 09/03/2011 09:50

Littleton MA 01460

Reported: 09/16/2011 15:00

FFP12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	5 J	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	1,600	5	10
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	2 J	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	2.0	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/10/2011 00:34	Frank A Valla, Jr	1
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112532AA	09/10/2011 22:50	Emily R Styer	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W112522AA	09/10/2011 00:34	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W112532AA	09/10/2011 22:50	Emily R Styer	10
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11250B20A	09/09/2011 03:18	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11250B20A	09/09/2011 03:18	Laura M Krieger	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: PW-01 (105 ft) Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6396829
LLI Group # 1264918
Account # 12152

Project Name: Fairfax 26140

Collected: 09/02/2011 10:25 by CL

Kleinfelder
30 Porter Road
Littleton MA 01460

Submitted: 09/03/2011 09:50

Reported: 09/16/2011 15:00

FFP13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10903	Benzene	71-43-2	3 J	ug/l 0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	1,400	5	10
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	1 J	0.8	1
GC Volatiles SW-846 8015B					
01635	TPH-GRO water C6-C10	n.a.	1.7	mg/l 0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/10/2011 00:58	Frank A Valla, Jr	1
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112532AA	09/10/2011 23:14	Emily R Styer	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W112522AA	09/10/2011 00:58	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W112532AA	09/10/2011 23:14	Emily R Styer	10
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11250B20A	09/09/2011 03:40	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11250B20A	09/09/2011 03:40	Laura M Krieger	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-13 Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6396830
LLI Group # 1264918
Account # 12152

Project Name: Fairfax 26140

Collected: 09/02/2011 11:15 by CL Kleinfelder
30 Porter Road
Submitted: 09/03/2011 09:50 Littleton MA 01460
Reported: 09/16/2011 15:00

FF-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10903	Benzene	71-43-2	5	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	6,800	25	50
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	5	0.8	1
GC Volatiles SW-846 8015B mg/l					
01635	TPH-GRO water C6-C10	n.a.	6.2	0.10	5

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/10/2011 01:22	Frank A Valla, Jr	1
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112532AA	09/10/2011 23:38	Emily R Styer	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W112522AA	09/10/2011 01:22	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W112532AA	09/10/2011 23:38	Emily R Styer	50
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11250B20A	09/09/2011 15:19	Laura M Krieger	5
01146	GC VOA Water Prep	SW-846 5030B	1	11250B20A	09/09/2011 15:19	Laura M Krieger	5



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-14 Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6396831
LLI Group # 1264918
Account # 12152

Project Name: Fairfax 26140

Collected: 09/02/2011 10:50 by CL Kleinfelder
30 Porter Road
Submitted: 09/03/2011 09:50 Littleton MA 01460
Reported: 09/16/2011 15:00

FF-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	54	3	5
10903	Ethylbenzene	100-41-4	N.D.	4	5
10903	Methyl Tertiary Butyl Ether	1634-04-4	170,000	500	1000
10903	Toluene	108-88-3	N.D.	4	5
10903	Xylene (Total)	1330-20-7	55	4	5
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	120	0.50	25

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/10/2011 02:11	Frank A Valla, Jr	5
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112551AA	09/12/2011 23:44	Emily R Styer	1000
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W112522AA	09/10/2011 02:11	Frank A Valla, Jr	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W112551AA	09/12/2011 23:44	Emily R Styer	1000
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11256A07A	09/14/2011 17:26	Laura M Krieger	25
01146	GC VOA Water Prep	SW-846 5030B	1	11256A07A	09/14/2011 17:26	Laura M Krieger	25



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-15 Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6396832
LLI Group # 1264918
Account # 12152

Project Name: Fairfax 26140

Collected: 09/02/2011 10:10 by CL Kleinfelder
30 Porter Road
Submitted: 09/03/2011 09:50 Littleton MA 01460
Reported: 09/16/2011 15:00

FF-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	21,000	130	250
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	1 J	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	14	0.10	5

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112522AA	09/10/2011 01:46	Frank A Valla, Jr	1
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W112551AA	09/13/2011 00:08	Emily R Styer	250
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W112522AA	09/10/2011 01:46	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W112551AA	09/13/2011 00:08	Emily R Styer	250
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11250B20A	09/09/2011 15:41	Laura M Krieger	5
01146	GC VOA Water Prep	SW-846 5030B	1	11250B20A	09/09/2011 15:41	Laura M Krieger	5

Quality Control Summary

 Client Name: Kleinfelder
 Reported: 09/16/11 at 03:00 PM

Group Number: 1264918

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: W112522AA	Sample number(s): 6396813-6396832							
Benzene	N.D.	0.5	ug/l	107	104	79-120	3	30
Ethylbenzene	N.D.	0.8	ug/l	108	107	79-120	2	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	106	103	76-120	3	30
Toluene	N.D.	0.7	ug/l	108	106	79-120	1	30
Xylene (Total)	N.D.	0.8	ug/l	109	109	80-120	0	30
Batch number: W112532AA	Sample number(s): 6396827-6396830							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	104	104	76-120	0	30
Batch number: W112551AA	Sample number(s): 6396831-6396832							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	111	115	76-120	4	30
Batch number: 11249E20A	Sample number(s): 6396813-6396815							
TPH-GRO water C6-C10	N.D.	0.020	mg/l	91	100	75-135	10	30
Batch number: 11250B20A	Sample number(s): 6396816-6396830,6396832							
TPH-GRO water C6-C10	N.D.	0.020	mg/l	100	109	75-135	9	30
Batch number: 11256A07A	Sample number(s): 6396831							
TPH-GRO water C6-C10	N.D.	0.020	mg/l	100	100	75-135	0	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 11256A07A	Sample number(s): 6396831 UNSPK: P399234								
TPH-GRO water C6-C10	91		75-135						

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 Std. Water Master
 Batch number: W112522AA

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: Kleinfelder
 Reported: 09/16/11 at 03:00 PM

Group Number: 1264918

Surrogate Quality Control

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6396813	98	97	100	90
6396814	99	101	101	95
6396815	98	96	101	94
6396816	97	98	99	92
6396817	99	102	100	91
6396818	101	99	100	94
6396819	98	99	103	91
6396820	98	99	96	87
6396821	98	97	104	96
6396822	101	95	102	98
6396823	99	99	98	90
6396824	95	96	96	90
6396825	100	100	91	87
6396826	100	102	101	92
6396827	101	105	94	86
6396828	97	96	97	84
6396829	99	100	100	95
6396830	104	102	93	97
6396831	97	96	96	93
6396832	97	98	97	94
Blank	99	100	98	92
LCS	101	104	100	100
LCSD	100	105	99	98

Limits: 80-116 77-113 80-113 78-113

 Analysis Name: 8260 Master Scan (water)
 Batch number: W112532AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	100	100	99	92
LCS	101	103	110	100
LCSD	104	97	98	99

Limits: 80-116 77-113 80-113 78-113

 Analysis Name: 8260 Master Scan (water)
 Batch number: W112551AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	105	106	98	99
LCS	105	106	98	104
LCSD	104	106	98	103

Limits: 80-116 77-113 80-113 78-113

 Analysis Name: TPH-GRO water C6-C10
 Batch number: 11249E20A
 Trifluorotoluene-F

6396813	104
6396814	106
6396815	98
Blank	99
LCS	126

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Kleinfelder
Reported: 09/16/11 at 03:00 PM

Group Number: 1264918

Surrogate Quality Control

LCSD 129

Limits: 63-135

Analysis Name: TPH-GRO water C6-C10
Batch number: 11250B20A
Trifluorotoluene-F

6396816	101
6396817	102
6396818	102
6396819	100
6396820	102
6396821	109
6396822	98
6396823	108
6396824	101
6396825	99
6396826	101
6396827	106
6396828	107
6396829	105
6396830	99
6396832	103
Blank	97
LCS	132
LCSD	130

Limits: 63-135

Analysis Name: TPH-GRO water C6-C10
Batch number: 11256A07A
Trifluorotoluene-F

6396831	109
Blank	101
LCS	113
LCSD	113
MS	112

Limits: 63-135

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152

Group #: _____ Sample #: _____
1264918 6396813-32

Page 1 of 5

Client: <u>Fairfax Petroleum</u>		Acct. #: _____		Matrix			Analyses Requested		For Lab Use Only				
Project Name/#: <u>26140/ Great Falls</u>		PWSID #: _____		Potable NIPDES			Preservation Codes		FSC: _____				
Project Address: <u>9901 Georgetown Pike</u>		P.O. #: _____							SCR#: _____				
Project Manager: <u>Mark Steele</u>		Quote #: <u>08531-117575</u>											
Sampler: <u>Charlie Low / Greg Moore</u>		Name of State where samples were collected: <u>Virginia</u>											
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total # of Containers	BTEX, MTBE - 8260	TPH-GRO - 8015	Remarks	Temperature of samples upon receipt (if requested)	
MW-1	9/2/2011	915	X			X		6	X	X			
MW-2	9/2/2011	1155	X			X		6	X	X			
MW-3	9/2/2011												
MW-5	9/2/2011	1230	X			X		6	X	X			
MW-6S	9/2/2011	830	X			X		6	X	X			
MW-6D (65 ft)	9/2/2011	855	X			X		6	X	X			
MW-6D (85 ft)	9/2/2011	825	X			X		6	X	X			
MW-6D (105 ft)	9/2/2011	755	X			X		6	X	X			
MW-7	9/2/2011	855	X			X		6	X	X			
MW-8	9/2/2011	1030	X			X		6	X	X			
Turnaround Time Requested (TAT) (please circle): <u>Normal</u> Rush					Relinquished by: <u>[Signature]</u>		Date	Time	Received by:	Date	Time		
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)							9/2/11	900	<u>Feed Ex</u>				
Date results are needed: _____					Relinquished by: _____		Date	Time	Received by: _____	Date	Time		
Rush results requested by (please circle): Phone Fax E-mail													
Phone #: <u>410-850-0404</u> Fax #: <u>410-850-0049</u>					Relinquished by: _____		Date	Time	Received by: _____	Date	Time		
E-mail address: <u>mcsteele@kleinfelder.com</u>													
Data Package Options (please circle if required)					SDG Complete? Yes No		Relinquished by: _____		Date	Time	Received by: _____	Date	Time
Type I (validation/NJ reg) TX-TRRP-13					Yes No								
Type II (Tier II) MA MCP CT RCP							Relinquished by: _____		Date	Time	Received by: _____	Date	Time
Type III (Reduced NJ)					State-specific QC (MS/MSD/Dup)? Yes No								
Type IV (CLP SOW)					(If yes, indicated QC sample and submit triplicate volume)		Relinquished by: _____		Date	Time	Received by: _____	Date	Time
Type VI (Raw Data Only)					Internal COC required? Yes No						<u>Birandy</u>	9-3-11	950

Lancaster Laboratories, Inc. 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 717-656-2300
 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client



Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152

Group #: _____ Sample #: _____
1264918 6396813-32

Page 2 of 3

Client: <u>Fairfax Petroleum</u> Acct. #: _____		Project Name/#: <u>26140/ Great Falls</u> PWSID #: _____		Project Address: <u>9901 Georgetown Pike</u>		Project Manager: <u>Mark Steele</u> P.O. #: <u>08531-117575</u>		Sampler: <u>Charlie Low / Greg Moore</u> Quote #: _____		Matrix		Analyses Requested		For Lab Use Only	
Name of State where samples were collected: <u>Virginia</u>												Preservation Codes		FSC: _____	
														SCR#: _____	
														Preservation Codes <small>H=HCl T=Thiosulfate N=HNO3 B=NaOH S=H2SO4 O=Other</small>	
														Temperature of samples upon receipt (if requested)	
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total # of Containers	BTEX, MTBE - 8260	TPH-GRO - 8015					Remarks
MW-9	9/2/2011	1130	X			X		6	X	X					
MW-10	9/2/2011	805	X			X		6	X	X					
MW-11	9/2/2011	945	X			X		6	X	X					
MW-12 (110 ft)	9/2/2011	1305	X			X		6	X	X					
MW-12 (153 ft)	9/2/2011	1235	X			X		6	X	X					
PW-01 (65 ft)	9/2/2011	1125	X			X		6	X	X					
PW-01 (85 ft)	9/2/2011	1055	X			X		6	X	X					
PW-01 (105 ft)	9/2/2011	1025	X			X		6	X	X					
MW-13	9/2/2011	1115	X			X		6	X	X					
MW-14	9/2/2011	1050	X			X		6	X	X					

Turnaround Time Requested (TAT) (please circle) <u>Normal</u> Rush		Relinquished by: <u>[Signature]</u>		Date	Time	Received by:	Date	Time	
<small>(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)</small>				<u>9/2/11</u>	<u>1900</u>	<u>Fed Ex</u>			
Date results are needed: _____		Relinquished by:		Date	Time	Received by:	Date	Time	
Rush results requested by (please circle): Phone Fax E-mail		Relinquished by:		Date	Time	Received by:	Date	Time	
Phone #: <u>410-850-0404</u> Fax #: <u>410-850-0049</u>		Relinquished by:		Date	Time	Received by:	Date	Time	
E-mail address: <u>mcsteele@kleinfelder.com</u>		Relinquished by:		Date	Time	Received by:	Date	Time	
Data Package Options (please circle if required)		SDG Complete?		Relinquished by:	Date	Time	Received by:	Date	Time
Type I (validation/NJ reg) <u>TX-TRRP-13</u>		<u>Yes</u> No		Relinquished by:	Date	Time	Received by:	Date	Time
Type II (Tier II) <u>MA MCP</u> <u>CT RCP</u>				Relinquished by:	Date	Time	Received by:	Date	Time
Type III (Reduced NJ)		State-specific QC (MS/MSD/Dup)? <u>Yes</u> No		Relinquished by:	Date	Time	Received by:	Date	Time
Type IV (CLP SOW)		<small>(If yes, indicated QC sample and submit triplicate volume)</small>		Relinquished by:	Date	Time	Received by:	Date	Time
Type VI (Raw Data Only)		Internal COC required? <u>Yes</u> No					<u>Burawski</u>	<u>9-3-11</u>	<u>950</u>

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

January 09, 2012

Project: Fairfax 26140

Submittal Date: 12/23/2011

Group Number: 1282512

PO Number: 51141-178270

State of Sample Origin: VA

Client Sample DescriptionMW-6D(105) Grab Water
MW-6D(83) Grab Water
MW-6D(66) Grab Water
MW-12(141) Grab Water
MW-12(127) Grab Water
MW-12(110) Grab Water
MW-16D(125) Grab Water
MW-16D(110) Grab Water
MW-16D(89) Grab Water
PW-1(65) Grab WaterLancaster Labs (LLI) #6508412
6508413
6508414
6508415
6508416
6508417
6508418
6508419
6508420
6508421

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO Kleinfelder
ELECTRONIC COPY TO Kleinfelder
ELECTRONIC COPY TO Kleinfelder
ELECTRONIC COPY TO Kleinfelder

Attn: Mark Steele

Attn: Angela Vogt

Attn: Candace Pittmon

Attn: Brian Barone

Questions? Contact your Client Services Representative
Natalie R Luciano at (717) 656-2300 Ext. 1881

Respectfully Submitted,



Marla S. Lord
Senior Specialist

Sample Description: MW-6D(105) Grab Water
 9901 Georgetown Pk - Great Falls, VA
 Fairfax Petroleum 26140

LLI Sample # WW 6508412
LLI Group # 1282512
Account # 12152

Project Name: Fairfax 26140

Collected: 12/22/2011 06:30 by CL

Kleinfelder

1 Speen Street

Submitted: 12/23/2011 09:45

Framingham MA 01701

Reported: 01/09/2012 16:41

FX6D1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	0.9 J	0.5	1
10903	Toluene	108-88-3	1 J	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	0.030 J	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T120041AA	01/04/2012 16:03	Chelsea B Eastep	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T120041AA	01/04/2012 16:03	Chelsea B Eastep	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11363B20A	12/30/2011 11:59	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11363B20A	12/30/2011 11:59	Marie D John	1

Sample Description: MW-6D(83) Grab Water
 9901 Georgetown Pk - Great Falls, VA
 Fairfax Petroleum 26140

LLI Sample # WW 6508413
 LLI Group # 1282512
 Account # 12152

Project Name: Fairfax 26140

Collected: 12/22/2011 07:00 by CL

Kleinfelder

1 Speen Street

Submitted: 12/23/2011 09:45

Framingham MA 01701

Reported: 01/09/2012 16:41

FX6D2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	0.8 J	0.5	1
10903	Toluene	108-88-3	1 J	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	0.028 J	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T120041AA	01/04/2012 16:26	Chelsea B Eastep	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T120041AA	01/04/2012 16:26	Chelsea B Eastep	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11363B20A	12/30/2011 12:21	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11363B20A	12/30/2011 12:21	Marie D John	1

Sample Description: MW-6D(66) Grab Water
9901 Georgetown Pk - Great Falls, VA
Fairfax Petroleum 26140

LLI Sample # WW 6508414
LLI Group # 1282512
Account # 12152

Project Name: Fairfax 26140

Collected: 12/22/2011 07:40 by CL

Kleinfelder

1 Speen Street

Framingham MA 01701

Submitted: 12/23/2011 09:45

Reported: 01/09/2012 16:41

FX6D3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	0.8 J	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	0.025 J	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T120041AA	01/04/2012 16:50	Chelsea B Eastep	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T120041AA	01/04/2012 16:50	Chelsea B Eastep	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11363B20A	12/30/2011 12:43	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11363B20A	12/30/2011 12:43	Marie D John	1

Sample Description: MW-12(141) Grab Water
 9901 Georgetown Pk - Great Falls, VA
 Fairfax Petroleum 26140

LLI Sample # WW 6508415
LLI Group # 1282512
Account # 12152

Project Name: Fairfax 26140

Collected: 12/22/2011 09:45 by CL

Kleinfelder

1 Speen Street

Submitted: 12/23/2011 09:45

Framingham MA 01701

Reported: 01/09/2012 16:41

FX121

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
A preserved vial was submitted for analysis. However, the pH at the time of analysis was 7.					
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T120041AA	01/04/2012 17:13	Chelsea B Eastep	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T120041AA	01/04/2012 17:13	Chelsea B Eastep	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	11363B20A	12/30/2011 13:09	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11363B20A	12/30/2011 13:09	Marie D John	1

Sample Description: MW-12(127) Grab Water
 9901 Georgetown Pk - Great Falls, VA
 Fairfax Petroleum 26140

LLI Sample # WW 6508416
LLI Group # 1282512
Account # 12152

Project Name: Fairfax 26140

Collected: 12/22/2011 10:20 by CL

Kleinfelder

1 Speen Street

Framingham MA 01701

Submitted: 12/23/2011 09:45

Reported: 01/09/2012 16:41

FX122

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T120041AA	01/04/2012 17:36	Chelsea B Eastep	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T120041AA	01/04/2012 17:36	Chelsea B Eastep	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12003B20A	01/04/2012 00:34	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12003B20A	01/04/2012 00:34	Marie D John	1

Sample Description: MW-12(110) Grab Water
 9901 Georgetown Pk - Great Falls, VA
 Fairfax Petroleum 26140

LLI Sample # WW 6508417
LLI Group # 1282512
Account # 12152

Project Name: Fairfax 26140

Collected: 12/22/2011 11:00 by CL

Kleinfelder

1 Speen Street

Submitted: 12/23/2011 09:45

Framingham MA 01701

Reported: 01/09/2012 16:41

FX123

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T120041AA	01/04/2012 18:00	Chelsea B Eastep	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T120041AA	01/04/2012 18:00	Chelsea B Eastep	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12003B20A	01/04/2012 01:18	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12003B20A	01/04/2012 01:18	Marie D John	1

Sample Description: MW-16D(125) Grab Water
 9901 Georgetown Pk - Great Falls, VA
 Fairfax Petroleum 26140

LLI Sample # WW 6508418
LLI Group # 1282512
Account # 12152

Project Name: Fairfax 26140

Collected: 12/22/2011 12:15 by CL

Kleinfelder
 1 Speen Street
 Framingham MA 01701

Submitted: 12/23/2011 09:45

Reported: 01/09/2012 16:41

FX6D4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	3	5
10903	Ethylbenzene	100-41-4	N.D.	4	5
10903	Methyl Tertiary Butyl Ether	1634-04-4	2,500	25	50
10903	Toluene	108-88-3	N.D.	4	5
10903	Xylene (Total)	1330-20-7	N.D.	4	5
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	2.7	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T120041AA	01/04/2012 22:09	Chelsea B Eastep	5
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T120041AA	01/04/2012 22:33	Chelsea B Eastep	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T120041AA	01/04/2012 22:09	Chelsea B Eastep	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T120041AA	01/04/2012 22:33	Chelsea B Eastep	50
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12003B20A	01/04/2012 01:40	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12003B20A	01/04/2012 01:40	Marie D John	1

Sample Description: MW-16D(110) Grab Water
 9901 Georgetown Pk - Great Falls, VA
 Fairfax Petroleum 26140

LLI Sample # WW 6508419
LLI Group # 1282512
Account # 12152

Project Name: Fairfax 26140

Collected: 12/22/2011 12:45 by CL

Kleinfelder

1 Speen Street

Submitted: 12/23/2011 09:45

Framingham MA 01701

Reported: 01/09/2012 16:41

FX6D5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	3	5
10903	Ethylbenzene	100-41-4	N.D.	4	5
10903	Methyl Tertiary Butyl Ether	1634-04-4	2,600	25	50
10903	Toluene	108-88-3	N.D.	4	5
10903	Xylene (Total)	1330-20-7	N.D.	4	5
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	2.7	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T120041AA	01/04/2012 22:56	Chelsea B Eastep	5
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T120041AA	01/04/2012 23:19	Chelsea B Eastep	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T120041AA	01/04/2012 22:56	Chelsea B Eastep	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T120041AA	01/04/2012 23:19	Chelsea B Eastep	50
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12003B20A	01/04/2012 02:02	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12003B20A	01/04/2012 02:02	Marie D John	1

Sample Description: MW-16D(89) Grab Water
9901 Georgetown Pk - Great Falls, VA
Fairfax Petroleum 26140

LLI Sample # WW 6508420
LLI Group # 1282512
Account # 12152

Project Name: Fairfax 26140

Collected: 12/22/2011 13:25 by CL

Kleinfelder

1 Speen Street

Submitted: 12/23/2011 09:45

Framingham MA 01701

Reported: 01/09/2012 16:41

FX6D6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	3	5
10903	Ethylbenzene	100-41-4	N.D.	4	5
10903	Methyl Tertiary Butyl Ether	1634-04-4	2,600	25	50
10903	Toluene	108-88-3	N.D.	4	5
10903	Xylene (Total)	1330-20-7	N.D.	4	5
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	2.5	0.10	5

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T120041AA	01/04/2012 23:43	Chelsea B Eastep	5
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T120041AA	01/05/2012 00:06	Chelsea B Eastep	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T120041AA	01/04/2012 23:43	Chelsea B Eastep	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T120041AA	01/05/2012 00:06	Chelsea B Eastep	50
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12003B20A	01/04/2012 05:42	Marie D John	5
01146	GC VOA Water Prep	SW-846 5030B	1	12003B20A	01/04/2012 05:42	Marie D John	5

Sample Description: PW-1(65) Grab Water
9901 Georgetown Pk - Great Falls, VA
Fairfax Petroleum 26140

LLI Sample # WW 6508421
LLI Group # 1282512
Account # 12152

Project Name: Fairfax 26140

Collected: 12/22/2011 14:30 by CL

Kleinfelder

1 Speen Street

Framingham MA 01701

Submitted: 12/23/2011 09:45

Reported: 01/09/2012 16:41

FXPW1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10903	Benzene	71-43-2	4 J	ug/l 3	5
10903	Ethylbenzene	100-41-4	N.D.	4	5
10903	Methyl Tertiary Butyl Ether	1634-04-4	1,300	3	5
10903	Toluene	108-88-3	N.D.	4	5
10903	Xylene (Total)	1330-20-7	N.D.	4	5

An undiluted analysis was performed approximately 6.5 hours outside of the method specified holding time. Benzene and xylene (total) were detected in the undiluted analysis. The results reported for all compounds are from the diluted analysis (DF 5). The results for benzene and xylene (total) from both analyses are listed below:

compound	concentrations (ug/l)	
	DF 1	DF 5
benzene	4 J	4 J
xylene (total)	2 J	<4

CAT No.	Analysis Name	Method	As Received Result	As Received Method Detection Limit	Dilution Factor
01635	TPH-GRO water C6-C10	n.a.	1.7	mg/l 0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T120051AA	01/05/2012 20:17	Chelsea B Eastep	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T120051AA	01/05/2012 20:17	Chelsea B Eastep	5
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12003B20A	01/04/2012 02:24	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12003B20A	01/04/2012 02:24	Marie D John	1

Quality Control Summary

Client Name: Kleinfelder
Reported: 01/09/12 at 04:41 PM

Group Number: 1282512

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: T120041AA	Sample number(s): 6508412-6508420							
Benzene	N.D.	0.5	ug/l	113	107	79-120	5	30
Ethylbenzene	N.D.	0.8	ug/l	94	90	79-120	4	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	96	96	76-120	0	30
Toluene	N.D.	0.7	ug/l	107	103	79-120	4	30
Xylene (Total)	N.D.	0.8	ug/l	95	91	80-120	5	30
Batch number: T120051AA	Sample number(s): 6508421							
Benzene	N.D.	0.5	ug/l	110		79-120		
Ethylbenzene	N.D.	0.8	ug/l	91		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	99		76-120		
Toluene	N.D.	0.7	ug/l	107		79-120		
Xylene (Total)	N.D.	0.8	ug/l	93		80-120		
Batch number: 11363B20A	Sample number(s): 6508412-6508415							
TPH-GRO water C6-C10	N.D.	0.020	mg/l	90	90	75-135	0	30
Batch number: 12003B20A	Sample number(s): 6508416-6508421							
TPH-GRO water C6-C10	N.D.	0.020	mg/l	88	84	75-135	5	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: T120051AA	Sample number(s): 6508421 UNSPK: P511340								
Benzene	6 (2)	-47 (2)	80-126	3	30				
Ethylbenzene	55 (2)	83 (2)	71-134	2	30				
Methyl Tertiary Butyl Ether	98	103	72-126	4	30				
Toluene	-29 (2)	-13 (2)	80-125	0	30				
Xylene (Total)	28 (2)	66 (2)	79-125	2	30				
Batch number: 12003B20A	Sample number(s): 6508416-6508421 UNSPK: 6508417								
TPH-GRO water C6-C10	91		75-135						

Surrogate Quality Control

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Kleinfelder
Reported: 01/09/12 at 04:41 PM

Group Number: 1282512

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 Std. Water Master

Batch number: T120041AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6508412	100	97	95	99
6508413	101	100	94	99
6508414	102	102	94	99
6508415	102	99	95	98
6508416	102	99	96	100
6508417	101	102	96	101
6508418	100	98	94	100
6508419	100	100	97	100
6508420	101	98	96	100
Blank	100	98	94	97
LCS	100	99	96	102
LCSD	99	96	97	104

Limits: 80-116 77-113 80-113 78-113

Analysis Name: 8260 Std. Water Master

Batch number: T120051AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6508421	100	95	100	107
Blank	101	96	96	102
LCS	100	96	97	105
MS	97	95	99	108
MSD	96	94	101	110

Limits: 80-116 77-113 80-113 78-113

Analysis Name: TPH-GRO water C6-C10

Batch number: 11363B20A

Trifluorotoluene-F

6508412	85
6508413	85
6508414	82
6508415	84
Blank	83
LCS	112
LCSD	111

Limits: 63-135

Analysis Name: TPH-GRO water C6-C10

Batch number: 12003B20A

Trifluorotoluene-F

6508416	79
6508417	80
6508418	85
6508419	85
6508420	85

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Kleinfelder

Group Number: 1282512

Reported: 01/09/12 at 04:41 PM

Surrogate Quality Control

6508421	89
Blank	80
LCS	105
LCSD	108
MS	111

Limits: 63-135

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152

Group #: 1282512 Sample #: 6508412-21

Client: Fairfax Petroleum			Acct. #:			Matrix			Analyses Requested						For Lab Use Only					
Project Name#: 26140/ Great Falls			PWSID #:			Potable			Preservation Codes						FSC: _____					
Project Address: 9901 Georgetown Pike Great Falls, VA			Project Manager: Brian Barone			NPDES			H H						SCR#: _____					
Project Manager: Brian Barone			P.O. #: 51141-178270			Total # of Containers			BTEX, MTBE 8260						Preservation Codes H=HCl T=Titrosulfate N=HNO3 B=NaOH S=H2SO4 O=Other					
Sampler: <u>Charlie Low</u>			Quote #:			Other			TPH-GRO 8015						Temperature of samples upon receipt (if requested)					
Name of State where samples were collected: Virginia			Date Collected			Time Collected			Soil			Water			Other			Remarks		
Sample Identification			Grab			Composite			Total # of Containers			BTEX, MTBE 8260			TPH-GRO 8015			Remarks		
MW-6D(105)			12/22/11			0605			X			X			X			Time = 0630 CC		
MW-6D(83)			12/22/11			0700			X			X			X					
MW-6D(66)			12/22/11			0940			X			X			X					
MW-12(111)			12/22/11			0945			X			X			X					
MW-12(127)			12/22/11			1020			X			X			X					
MW-12(110)			12/22/11			1100			X			X			X					
MW-16D(125)			12/22/11			1215			X			X			X					
MW-16D(110)			12/22/11			1245			X			X			X					
MW-16D(89)			12/22/11			1325			X			X			X					
PW-1(65)			12/22/11			1430			X			X			X					
Turnaround Time Requested (TAT) (please circle) <u>Normal</u> Rush						Relinquished by: <u>CLP</u>			Date: <u>12/22/11</u>		Time: <u>1700</u>		Received by: <u>FedEx</u>		Date: _____		Time: _____			
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)						Relinquished by: _____			Date: _____		Time: _____		Received by: _____		Date: _____		Time: _____			
Date results are needed: _____						Relinquished by: _____			Date: _____		Time: _____		Received by: _____		Date: _____		Time: _____			
Rush results requested by (please circle): Phone Fax E-mail						Relinquished by: _____			Date: _____		Time: _____		Received by: _____		Date: _____		Time: _____			
Phone #: _____ Fax #: _____						Relinquished by: _____			Date: _____		Time: _____		Received by: _____		Date: _____		Time: _____			
E-mail address: <u>bbarone@kleinfelder.com</u>						Relinquished by: _____			Date: _____		Time: _____		Received by: _____		Date: _____		Time: _____			
Data Package Options (please circle if required)						SDG Complete? Yes No			Date: _____		Time: _____		Received by: _____		Date: _____		Time: _____			
Type I (validation/NJ reg) TX-TRRP-13			Type II (Tier II) MA MCP CT RCP			Type III (Reduced NJ)			Date: _____		Time: _____		Received by: _____		Date: _____		Time: _____			
Type IV (CLP SOW)			Type VI (Raw Data Only)			State-specific QC (MS/MSD/Dup)? Yes No			Date: _____		Time: _____		Received by: _____		Date: _____		Time: _____			
						(If yes, indicated QC sample and submit triplicate volume)			Date: _____		Time: _____		Received by: _____		Date: _____		Time: _____			
						Internal COC required? Yes No			Date: _____		Time: _____		Received by: _____		Date: _____		Time: _____			

Lancaster Laboratories, Inc. 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 717-656-2300

Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client

Barone 12/23/11 945
Barone

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

January 12, 2012

Project: Fairfax 26140

Submittal Date: 12/29/2011

Group Number: 1283109

PO Number: 51141-178270

State of Sample Origin: VA

Client Sample DescriptionMW-1 Grab Water
MW-2 Grab Water
MW-5 Grab Water
MW-6S Grab Water
MW-7 Grab Water
MW-8 Grab Water
MW-9 Grab Water
MW-11 Grab Water
MW-14 Grab Water
MW-15 Grab WaterLancaster Labs (LLI) #6511387
6511388
6511389
6511390
6511391
6511392
6511393
6511394
6511395
6511396

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO Kleinfelder
ELECTRONIC COPY TO Kleinfelder
ELECTRONIC COPY TO Kleinfelder
ELECTRONIC COPY TO Kleinfelder

Attn: Mark Steele

Attn: Angela Vogt

Attn: Candace Pittmon

Attn: Brian Barone

Questions? Contact your Client Services Representative
Natalie R Luciano at (717) 656-2300 Ext. 1881

Respectfully Submitted,



Robin C. Runkle
Senior Specialist

Sample Description: **MW-1 Grab Water**
Fairfax Petroleum 26140

LLI Sample # **WW 6511387**
LLI Group # **1283109**
Account # **12152**

Project Name: **Fairfax 26140**

Collected: 12/29/2011 09:23 by PL

Kleinfelder

1 Speen Street

Submitted: 12/29/2011 16:20

Framingham MA 01701

Reported: 01/12/2012 15:58

FXP-1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	50	100
10903	Ethylbenzene	100-41-4	N.D.	80	100
10903	Methyl Tertiary Butyl Ether	1634-04-4	160,000	500	1000
10903	Toluene	108-88-3	N.D.	70	100
10903	Xylene (Total)	1330-20-7	N.D.	80	100
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	110	0.50	25

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	Y120062AA	01/06/2012 23:51	Chelsea B Eastep	100
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	Y120062AA	01/07/2012 00:12	Chelsea B Eastep	1000
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y120062AA	01/06/2012 23:51	Chelsea B Eastep	100
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y120062AA	01/07/2012 00:12	Chelsea B Eastep	1000
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12003C20A	01/04/2012 21:57	Marie D John	25
01146	GC VOA Water Prep	SW-846 5030B	1	12003C20A	01/04/2012 21:57	Marie D John	25

Sample Description: MW-2 Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6511388
LLI Group # 1283109
Account # 12152

Project Name: Fairfax 26140

Collected: 12/29/2011 07:22 by PL

Kleinfelder

Submitted: 12/29/2011 16:20

1 Speen Street

Reported: 01/12/2012 15:58

Framingham MA 01701

FXP-2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	25	50
10903	Ethylbenzene	100-41-4	N.D.	40	50
10903	Methyl Tertiary Butyl Ether	1634-04-4	49,000	250	500
10903	Toluene	108-88-3	N.D.	35	50
10903	Xylene (Total)	1330-20-7	N.D.	40	50
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	49	0.50	25

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	Y120062AA	01/06/2012 23:10	Chelsea B Eastep	50
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	Y120062AA	01/06/2012 23:30	Chelsea B Eastep	500
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y120062AA	01/06/2012 23:10	Chelsea B Eastep	50
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y120062AA	01/06/2012 23:30	Chelsea B Eastep	500
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12003C20A	01/04/2012 21:13	Marie D John	25
01146	GC VOA Water Prep	SW-846 5030B	1	12003C20A	01/04/2012 21:13	Marie D John	25

Sample Description: MW-5 Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6511389
LLI Group # 1283109
Account # 12152

Project Name: Fairfax 26140

Collected: 12/29/2011 08:30 by PL

Kleinfelder

1 Speen Street

Submitted: 12/29/2011 16:20

Framingham MA 01701

Reported: 01/12/2012 15:58

FXP-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	7	0.5	1
10903	Toluene	108-88-3	1 J	0.7	1
10903	Xylene (Total)	1330-20-7	1 J	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	0.023 J	0.020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	Y120062AA	01/06/2012 21:05	Chelsea B Eastep	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y120062AA	01/06/2012 21:05	Chelsea B Eastep	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12003C20A	01/04/2012 12:05	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12003C20A	01/04/2012 12:05	Marie D John	1

Sample Description: **MW-6S Grab Water**
Fairfax Petroleum 26140

LLI Sample # **WW 6511390**
LLI Group # **1283109**
Account # **12152**

Project Name: **Fairfax 26140**

Collected: 12/29/2011 11:00 by PL

Kleinfelder

1 Speen Street

Submitted: 12/29/2011 16:20

Framingham MA 01701

Reported: 01/12/2012 15:58

FXP-6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	2 J	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	0.020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	Y120062AA	01/06/2012 21:26	Chelsea B Eastep	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y120062AA	01/06/2012 21:26	Chelsea B Eastep	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12003C20A	01/04/2012 12:27	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12003C20A	01/04/2012 12:27	Marie D John	1

Sample Description: **MW-7 Grab Water**
Fairfax Petroleum 26140

LLI Sample # **WW 6511391**
LLI Group # **1283109**
Account # **12152**

Project Name: **Fairfax 26140**

Collected: 12/29/2011 09:42 by PL

Kleinfelder

Submitted: 12/29/2011 16:20

1 Speen Street

Reported: 01/12/2012 15:58

Framingham MA 01701

FXP-7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	1	2
10903	Ethylbenzene	100-41-4	N.D.	2	2
10903	Methyl Tertiary Butyl Ether	1634-04-4	1,600	10	20
10903	Toluene	108-88-3	N.D.	1	2
10903	Xylene (Total)	1330-20-7	N.D.	2	2
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	1.3	0.020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	Y120062AA	01/06/2012 21:47	Chelsea B Eastep	2
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	Y120062AA	01/06/2012 22:08	Chelsea B Eastep	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y120062AA	01/06/2012 21:47	Chelsea B Eastep	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y120062AA	01/06/2012 22:08	Chelsea B Eastep	20
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12003C20A	01/04/2012 12:49	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12003C20A	01/04/2012 12:49	Marie D John	1

Sample Description: MW-8 Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6511392
LLI Group # 1283109
Account # 12152

Project Name: Fairfax 26140

Collected: 12/29/2011 10:18 by PL

Kleinfelder

Submitted: 12/29/2011 16:20

1 Speen Street

Reported: 01/12/2012 15:58

Framingham MA 01701

FXP-8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	3	5
10903	Ethylbenzene	100-41-4	N.D.	4	5
10903	Methyl Tertiary Butyl Ether	1634-04-4	1,800	25	50
10903	Toluene	108-88-3	N.D.	4	5
10903	Xylene (Total)	1330-20-7	N.D.	4	5
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	1.8	0.10	5

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	Y120062AA	01/06/2012 22:29	Chelsea B Eastep	5
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	Y120062AA	01/06/2012 22:49	Chelsea B Eastep	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y120062AA	01/06/2012 22:29	Chelsea B Eastep	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y120062AA	01/06/2012 22:49	Chelsea B Eastep	50
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12003C20A	01/04/2012 18:19	Marie D John	5
01146	GC VOA Water Prep	SW-846 5030B	1	12003C20A	01/04/2012 18:19	Marie D John	5

Sample Description: **MW-9 Grab Water**
Fairfax Petroleum 26140

LLI Sample # **WW 6511393**
LLI Group # **1283109**
Account # **12152**

Project Name: **Fairfax 26140**

Collected: 12/29/2011 08:09 by PL

Kleinfelder

1 Speen Street

Framingham MA 01701

Submitted: 12/29/2011 16:20

Reported: 01/12/2012 15:58

FXP-9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	58	0.5	1
10903	Toluene	108-88-3	2 J	0.7	1
10903	Xylene (Total)	1330-20-7	1 J	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	0.16	0.020	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T120062AA	01/07/2012 04:51	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T120062AA	01/07/2012 04:51	Sara E Johnson	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12003C20A	01/04/2012 15:23	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12003C20A	01/04/2012 15:23	Marie D John	1

Sample Description: MW-11 Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6511394
LLI Group # 1283109
Account # 12152

Project Name: Fairfax 26140

Collected: 12/29/2011 09:00 by PL

Kleinfelder

1 Speen Street

Submitted: 12/29/2011 16:20

Framingham MA 01701

Reported: 01/12/2012 15:58

FXP11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	10	20
10903	Ethylbenzene	100-41-4	N.D.	16	20
10903	Methyl Tertiary Butyl Ether	1634-04-4	9,000	100	200
10903	Toluene	108-88-3	N.D.	14	20
10903	Xylene (Total)	1330-20-7	N.D.	16	20
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	7.3	0.10	5

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T120062AA	01/07/2012 03:16	Sara E Johnson	20
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T120062AA	01/07/2012 03:40	Sara E Johnson	200
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T120062AA	01/07/2012 03:16	Sara E Johnson	20
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T120062AA	01/07/2012 03:40	Sara E Johnson	200
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12003C20A	01/04/2012 18:41	Marie D John	5
01146	GC VOA Water Prep	SW-846 5030B	1	12003C20A	01/04/2012 18:41	Marie D John	5

Sample Description: MW-14 Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6511395
LLI Group # 1283109
Account # 12152

Project Name: Fairfax 26140

Collected: 12/29/2011 07:45 by PL

Kleinfelder

Submitted: 12/29/2011 16:20

1 Speen Street

Reported: 01/12/2012 15:58

Framingham MA 01701

FXP14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	50	100
10903	Ethylbenzene	100-41-4	N.D.	80	100
10903	Methyl Tertiary Butyl Ether	1634-04-4	99,000	500	1000
10903	Toluene	108-88-3	N.D.	70	100
10903	Xylene (Total)	1330-20-7	N.D.	80	100
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	72	0.50	25

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T120062AA	01/07/2012 04:03	Sara E Johnson	100
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T120062AA	01/07/2012 04:27	Sara E Johnson	1000
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T120062AA	01/07/2012 04:03	Sara E Johnson	100
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T120062AA	01/07/2012 04:27	Sara E Johnson	1000
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12003C20A	01/04/2012 21:35	Marie D John	25
01146	GC VOA Water Prep	SW-846 5030B	1	12003C20A	01/04/2012 21:35	Marie D John	25

Sample Description: MW-15 Grab Water
Fairfax Petroleum 26140

LLI Sample # WW 6511396
LLI Group # 1283109
Account # 12152

Project Name: Fairfax 26140

Collected: 12/29/2011 08:38 by PL

Kleinfelder

Submitted: 12/29/2011 16:20

1 Speen Street

Reported: 01/12/2012 15:58

Framingham MA 01701

FXP15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	1	2
10903	Ethylbenzene	100-41-4	N.D.	2	2
10903	Methyl Tertiary Butyl Ether	1634-04-4	1,100	3	5
10903	Toluene	108-88-3	N.D.	1	2
10903	Xylene (Total)	1330-20-7	N.D.	2	2
GC Volatiles			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	1.3	0.10	5

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T120091AA	01/09/2012 21:22	Linda C Pape	5
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T120101AA	01/10/2012 19:47	Linda C Pape	2
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T120091AA	01/09/2012 21:22	Linda C Pape	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T120101AA	01/10/2012 19:47	Linda C Pape	2
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12003C20A	01/04/2012 19:25	Marie D John	5
01146	GC VOA Water Prep	SW-846 5030B	1	12003C20A	01/04/2012 19:25	Marie D John	5

Quality Control Summary

Client Name: Kleinfelder
Reported: 01/12/12 at 03:58 PM

Group Number: 1283109

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: T120062AA	Sample number(s): 6511393-6511395							
Benzene	N.D.	0.5	ug/l	103	102	79-120	1	30
Ethylbenzene	N.D.	0.8	ug/l	92	93	79-120	0	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	97	93	76-120	4	30
Toluene	N.D.	0.7	ug/l	108	109	79-120	0	30
Xylene (Total)	N.D.	0.8	ug/l	93	94	80-120	2	30
Batch number: T120091AA	Sample number(s): 6511396							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	95		76-120		
Batch number: T120101AA	Sample number(s): 6511396							
Benzene	N.D.	0.5	ug/l	108		79-120		
Ethylbenzene	N.D.	0.8	ug/l	91		79-120		
Toluene	N.D.	0.7	ug/l	107		79-120		
Xylene (Total)	N.D.	0.8	ug/l	93		80-120		
Batch number: Y120062AA	Sample number(s): 6511387-6511392							
Benzene	N.D.	0.5	ug/l	103		79-120		
Ethylbenzene	N.D.	0.8	ug/l	103		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	105		76-120		
Toluene	N.D.	0.7	ug/l	102		79-120		
Xylene (Total)	N.D.	0.8	ug/l	101		80-120		
Batch number: 12003C20A	Sample number(s): 6511387-6511396							
TPH-GRO water C6-C10	N.D.	0.020	mg/l	100	100	75-135	0	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: T120091AA	Sample number(s): 6511396 UNSPK: P514098								
Methyl Tertiary Butyl Ether	97	95	72-126	3	30				
Batch number: T120101AA	Sample number(s): 6511396 UNSPK: P515470								
Benzene	116	103	80-126	4	30				
Ethylbenzene	99	99	71-134	0	30				
Toluene	173 (2)	125 (2)	80-125	3	30				
Xylene (Total)	104	98	79-125	2	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Kleinfelder
Reported: 01/12/12 at 03:58 PM

Group Number: 1283109

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Batch number: Y120062AA	Sample number(s): 6511387-6511392 UNSPK: P514775							
Benzene	109	106	80-126	3	30			
Ethylbenzene	108	106	71-134	2	30			
Methyl Tertiary Butyl Ether	105	102	72-126	3	30			
Toluene	106	103	80-125	3	30			
Xylene (Total)	105	103	79-125	3	30			

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 Std. Water Master
Batch number: T120062AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6511393	99	95	98	107
6511394	98	95	98	105
6511395	98	93	97	104
Blank	95	96	100	103
LCS	97	97	100	108
LCSD	96	97	103	108
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 Master Scan (water)
Batch number: T120091AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	96	95	97	102
LCS	97	96	101	107
MS	97	98	99	106
MSD	96	95	101	110
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 Std. Water Master
Batch number: T120101AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6511396	97	96	101	108
Blank	97	97	97	101
LCS	98	96	98	106
MS	99	99	98	106
MSD	97	98	100	107
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 Std. Water Master
Batch number: Y120062AA

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Kleinfelder

Group Number: 1283109

Reported: 01/12/12 at 03:58 PM

Surrogate Quality Control

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6511387	100	100	100	97
6511388	100	97	99	96
6511389	103	101	99	96
6511390	103	102	99	97
6511391	101	99	99	97
6511392	101	102	99	97
Blank	101	100	99	98
LCS	102	105	101	102
MS	101	103	100	101
MSD	101	104	101	100
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO water C6-C10

Batch number: 12003C20A

Trifluorotoluene-F

6511387	93
6511388	92
6511389	90
6511390	92
6511391	92
6511392	88
6511393	91
6511394	92
6511395	90
6511396	90
Blank	91
LCS	110
LCSD	111
Limits:	63-135

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #:

12/29/11 12152
12125

1

Group #: 1283109

Sample #: 6511387-97

Client: Fairfax Petroleum		Acct. #:		Matrix			Analyses Requested				For Lab Use Only			
Project Name/ #: 26140/ Great Falls		PWSID #:					Preservation Codes				FSC:			
Project Address: 9901 Georgetown Pike Great Falls, VA											SCR#:			
Project Manager: Mark Steele		P.O. #: 51141-178270												
Sampler: <i>Paul Lawson</i>		Quote #:												
Name of State where samples were collected: Virginia														
		2011												
Sample Identification		Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total # of Containers	BTEX, MTBE 8260	TPH-GRO 8015	Remarks		
MW-1		12/29	0923	X			X			X	X			
MW-2		12/29	0722	X			X			X	X			
MW-3														
MW-5		12/29	0830	X			X			X	X			
MW-6S			1100											
MW-7			0942											
MW-8			1018											
MW-9			0809											
MW-11			0900											
Turnaround Time Requested (TAT) (please circle): Normal Rush				Relinquished by:			Date	Time	Received by:	Date	Time			
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)				<i>Paul Lawson</i>			12/29/11	1230	<i>Km</i>	12/29/11	13:5			
Date results are needed:				Relinquished by:			Date	Time	Received by:	Date	Time			
				<i>Km</i>			12/29/11	16:20						
Rush results requested by (please circle): Phone Fax E-mail				Relinquished by:			Date	Time	Received by:	Date	Time			
Phone #: Fax #: E-mail address:				Relinquished by:			Date	Time	Received by:	Date	Time			
Data Package Options (please circle if required)				SDG Complete? Yes No			Relinquished by:			Date	Time	Received by:	Date	Time
Type I (validation/NJ reg) TX-TRRP-13				Yes No			Relinquished by:			Date	Time	Received by:	Date	Time
Type II (Tier II) MA MCP CT RCP							Relinquished by:			Date	Time	Received by:	Date	Time
Type III (Reduced NJ)				State-specific QC (MS/MSD/Dup)? Yes No			Relinquished by:			Date	Time	Received by:	Date	Time
Type IV (CLP SOW)				(If yes, indicated QC sample and submit triplicate volume)			Relinquished by:			Date	Time	Received by:	Date	Time
Type VI (Raw Data Only)				Internal COC required? Yes No								<i>Km</i>	12/29/11	1620

Lancaster Laboratories, Inc. 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 717-656-2300

Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client



Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #:

12152
12125 GH
121211

Group #: 1283109

Sample #: 6511387-97

Client: Fairfax Petroleum		Acct. #:		Matrix		Analyses Requested		For Lab Use Only	
Project Name/ #: 26140/ Great Falls		PWSID #:		Potable NPDES		Preservation Codes		FSC:	
Project Address: 9901 Georgetown Pike Great Falls, VA				P.O. #: 51141-178270				SCR#:	
Project Manager: Brian Barone		Quote #:		Soil				Remarks	
Sampler: Paul Lawson		Name of State where samples were collected: Virginia		Water		Total # of Containers		Temperature of samples upon receipt (if requested)	
				Other		BTEX, MTBE 8260			
						TPH-GRO 8015			
Sample Identification		Date Collected	Time Collected	Grab	Composite				
MW-13 PCC									
MW-14		12/29/11	0745	X		X			
MW-15		12/29/11	0838	X		X			
Turnaround Time Requested (TAT) (please circle): Normal Rush		Date results are needed:		Rush results requested by (please circle): Phone Fax E-mail		Relinquished by: Paul Lawson 12/29/11 12:30		Received by: K... 12/29/11 13:00	
Phone #: Fax #: E-mail address:		SDG Complete? Yes No		Relinquished by: 12/29/11 16:20		Received by:		Date Time	
Data Package Options (please circle if required)		State-specific QC (MS/MSD/Dup)? Yes No		Relinquished by:		Received by:		Date Time	
Type I (validation/NJ reg) TX-TRRP-13		(If yes, indicated QC sample and submit triplicate volume)		Relinquished by:		Received by:		Date Time	
Type II (Tier II) MA MCP CT RCP		Internal COC required? Yes No		Relinquished by:		Received by:		Date Time	
Type III (Reduced NJ)				Relinquished by:		Received by:		Date Time	
Type IV (CLP SOW)				Relinquished by:		Received by:		Date Time	
Type VI (Raw Data Only)				Relinquished by:		Received by:		Date Time	

Lancaster Laboratories, Inc. 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 717-656-2300

Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Kleinfelder
1 Speen Street
Framingham MA 01701

June 14, 2012

Project: Fairfax 26140

Submittal Date: 06/02/2012

Group Number: 1313153

PO Number: 08531-117575

State of Sample Origin: VA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
MW-1 Grab Water	6675559
MW-2 Grab Water	6675560
MW-5 Grab Water	6675561
MW-6S Grab Water	6675562
MW-6D (65 FT) Grab Water	6675563
MW-6D (85 FT) Grab Water	6675564
MW-6D (105 FT) Grab Water	6675565
MW-7 Grab Water	6675566
MW-8 Grab Water	6675567
MW-9 Grab Water	6675568
MW-10 Grab Water	6675569
MW-11 Grab Water	6675570
MW-12 (110 FT) Grab Water	6675571
MW-12 (153 FT) Grab Water	6675572
PW-01 (65 FT) Grab Water	6675573
MW-13 Grab Water	6675574
MW-14 Grab Water	6675575
MW-15 Grab Water	6675576
MW-16D (95 FT) Grab Water	6675577

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC Kleinfelder
COPY TO
ELECTRONIC Kleinfelder

Attn: Mark Steele

Attn: Angela Vogt

COPY TO
ELECTRONIC Kleinfelder
COPY TO
ELECTRONIC Kleinfelder
COPY TO

Attn: Candace Pittmon

Attn: Brian Barone

Respectfully Submitted,



Natalie R. Luciano
Specialist

(717) 556-7258

Sample Description: MW-1 Grab Water
9901 Georgetown Pike Great Falls, VA
Fairfax 26140

LLI Sample # WW 6675559
LLI Group # 1313153
Account # 12152

Project Name: Fairfax 26140

Collected: 06/01/2012 10:25 by CL

Kleinfelder

1 Speen Street

Submitted: 06/02/2012 09:30

Framingham MA 01701

Reported: 06/14/2012 16:59

GFMW1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	50	100
10903	Ethylbenzene	100-41-4	N.D.	80	100
10903	Methyl Tertiary Butyl Ether	1634-04-4	140,000	500	1000
10903	Toluene	108-88-3	N.D.	70	100
10903	Xylene (Total)	1330-20-7	N.D.	80	100
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	96	2.0	100

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121592AA	06/08/2012 02:18	Sarah A Guill	100
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121592AA	06/08/2012 02:42	Sarah A Guill	1000
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T121592AA	06/08/2012 02:18	Sarah A Guill	100
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T121592AA	06/08/2012 02:42	Sarah A Guill	1000
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12160C20A	06/12/2012 18:12	Laura M Krieger	100
01146	GC VOA Water Prep	SW-846 5030B	1	12160C20A	06/12/2012 18:12	Laura M Krieger	100

Sample Description: MW-2 Grab Water
9901 Georgetown Pike Great Falls, VA
Fairfax 26140

LLI Sample # WW 6675560
LLI Group # 1313153
Account # 12152

Project Name: Fairfax 26140

Collected: 06/01/2012 11:25 by CL

Kleinfelder

1 Speen Street

Submitted: 06/02/2012 09:30

Framingham MA 01701

Reported: 06/14/2012 16:59

GFMW2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	50	100
10903	Ethylbenzene	100-41-4	N.D.	80	100
10903	Methyl Tertiary Butyl Ether	1634-04-4	100,000	500	1000
10903	Toluene	108-88-3	N.D.	70	100
10903	Xylene (Total)	1330-20-7	N.D.	80	100
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	74	2.0	100

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121592AA	06/08/2012 03:06	Sarah A Guill	100
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121592AA	06/08/2012 03:52	Sarah A Guill	1000
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T121592AA	06/08/2012 03:06	Sarah A Guill	100
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T121592AA	06/08/2012 03:52	Sarah A Guill	1000
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12160C20A	06/12/2012 18:34	Laura M Krieger	100
01146	GC VOA Water Prep	SW-846 5030B	1	12160C20A	06/12/2012 18:34	Laura M Krieger	100

Sample Description: MW-5 Grab Water
9901 Georgetown Pike Great Falls, VA
Fairfax 26140

LLI Sample # WW 6675561
LLI Group # 1313153
Account # 12152

Project Name: Fairfax 26140

Collected: 06/01/2012 07:25 by CL

Kleinfelder

Submitted: 06/02/2012 09:30

1 Speen Street

Reported: 06/14/2012 16:59

Framingham MA 01701

GFMW5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	0.8 J	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 11:33	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T121601AA	06/08/2012 11:33	Linda C Pape	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12160C20A	06/12/2012 12:43	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	12160C20A	06/12/2012 12:43	Laura M Krieger	1

Sample Description: MW-6S Grab Water
9901 Georgetown Pike Great Falls, VA
Fairfax 26140

LLI Sample # WW 6675562
LLI Group # 1313153
Account # 12152

Project Name: Fairfax 26140

Collected: 06/01/2012 08:15 by CL

Kleinfelder

1 Speen Street

Submitted: 06/02/2012 09:30

Framingham MA 01701

Reported: 06/14/2012 16:59

GFMW6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	0.8 J	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 11:57	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T121601AA	06/08/2012 11:57	Linda C Pape	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12160C20A	06/12/2012 13:05	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	12160C20A	06/12/2012 13:05	Laura M Krieger	1

Sample Description: MW-6D (65 FT) Grab Water
9901 Georgetown Pike Great Falls, VA
Fairfax 26140

LLI Sample # WW 6675563
LLI Group # 1313153
Account # 12152

Project Name: Fairfax 26140

Collected: 06/01/2012 08:50 by CL

Kleinfelder

1 Speen Street

Submitted: 06/02/2012 09:30

Framingham MA 01701

Reported: 06/14/2012 16:59

GFM6D

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	0.8 J	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	0.021 J	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 12:20	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T121601AA	06/08/2012 12:20	Linda C Pape	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12160C20A	06/12/2012 13:27	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	12160C20A	06/12/2012 13:27	Laura M Krieger	1

Sample Description: MW-6D (85 FT) Grab Water
9901 Georgetown Pike Great Falls, VA
Fairfax 26140

LLI Sample # WW 6675564
LLI Group # 1313153
Account # 12152

Project Name: Fairfax 26140

Collected: 06/01/2012 08:15 by CL

Kleinfelder

1 Speen Street

Submitted: 06/02/2012 09:30

Framingham MA 01701

Reported: 06/14/2012 16:59

GF-85

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	0.8 J	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	0.024 J	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 12:44	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T121601AA	06/08/2012 12:44	Linda C Pape	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12160C20A	06/12/2012 13:49	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	12160C20A	06/12/2012 13:49	Laura M Krieger	1

Sample Description: MW-6D (105 FT) Grab Water
9901 Georgetown Pike Great Falls, VA
Fairfax 26140

LLI Sample # WW 6675565
LLI Group # 1313153
Account # 12152

Project Name: Fairfax 26140

Collected: 06/01/2012 07:40 by CL

Kleinfelder

1 Speen Street

Submitted: 06/02/2012 09:30

Framingham MA 01701

Reported: 06/14/2012 16:59

GF105

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	0.9 J	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	0.025 J	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 13:08	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T121601AA	06/08/2012 13:08	Linda C Pape	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12160C20A	06/12/2012 14:11	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	12160C20A	06/12/2012 14:11	Laura M Krieger	1

Sample Description: MW-7 Grab Water
9901 Georgetown Pike Great Falls, VA
Fairfax 26140

LLI Sample # WW 6675566
LLI Group # 1313153
Account # 12152

Project Name: Fairfax 26140

Collected: 06/01/2012 10:15 by CL

Kleinfelder

1 Speen Street

Submitted: 06/02/2012 09:30

Framingham MA 01701

Reported: 06/14/2012 16:59

GFMW7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	5	10
10903	Ethylbenzene	100-41-4	N.D.	8	10
10903	Methyl Tertiary Butyl Ether	1634-04-4	6,700	50	100
10903	Toluene	108-88-3	N.D.	7	10
10903	Xylene (Total)	1330-20-7	N.D.	8	10
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	4.3	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 15:32	Linda C Pape	10
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 15:56	Linda C Pape	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T121601AA	06/08/2012 15:32	Linda C Pape	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T121601AA	06/08/2012 15:56	Linda C Pape	100
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12160C20A	06/12/2012 14:33	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	12160C20A	06/12/2012 14:33	Laura M Krieger	1

Sample Description: MW-8 Grab Water
9901 Georgetown Pike Great Falls, VA
Fairfax 26140

LLI Sample # WW 6675567
LLI Group # 1313153
Account # 12152

Project Name: Fairfax 26140

Collected: 06/01/2012 09:15 by CL

Kleinfelder

1 Speen Street

Submitted: 06/02/2012 09:30

Framingham MA 01701

Reported: 06/14/2012 16:59

GFMW8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	3 J	1	2
10903	Ethylbenzene	100-41-4	N.D.	2	2
10903	Methyl Tertiary Butyl Ether	1634-04-4	1,200	3	5
10903	Toluene	108-88-3	N.D.	1	2
10903	Xylene (Total)	1330-20-7	4 J	2	2
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	1.5	0.10	5

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 16:20	Linda C Pape	5
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	W121611AA	06/09/2012 09:27	Stephanie A Selis	2
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T121601AA	06/08/2012 16:20	Linda C Pape	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W121611AA	06/09/2012 09:27	Stephanie A Selis	2
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12160C20A	06/12/2012 18:56	Laura M Krieger	5
01146	GC VOA Water Prep	SW-846 5030B	1	12160C20A	06/12/2012 18:56	Laura M Krieger	5

Sample Description: MW-9 Grab Water
9901 Georgetown Pike Great Falls, VA
Fairfax 26140

LLI Sample # WW 6675568
LLI Group # 1313153
Account # 12152

Project Name: Fairfax 26140

Collected: 06/01/2012 09:30 by CL

Kleinfelder

1 Speen Street

Submitted: 06/02/2012 09:30

Framingham MA 01701

Reported: 06/14/2012 16:59

GFMW9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	190	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	0.27	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 13:32	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T121601AA	06/08/2012 13:32	Linda C Pape	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12160C20A	06/12/2012 14:55	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	12160C20A	06/12/2012 14:55	Laura M Krieger	1

Sample Description: MW-10 Grab Water
9901 Georgetown Pike Great Falls, VA
Fairfax 26140

LLI Sample # WW 6675569
LLI Group # 1313153
Account # 12152

Project Name: Fairfax 26140

Collected: 06/01/2012 07:50 by CL

Kleinfelder

1 Speen Street

Framingham MA 01701

Submitted: 06/02/2012 09:30

Reported: 06/14/2012 16:59

GFMW0

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	4 J	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 13:56	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T121601AA	06/08/2012 13:56	Linda C Pape	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12160C20A	06/12/2012 15:39	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	12160C20A	06/12/2012 15:39	Laura M Krieger	1

Sample Description: MW-11 Grab Water
9901 Georgetown Pike Great Falls, VA
Fairfax 26140

LLI Sample # WW 6675570
LLI Group # 1313153
Account # 12152

Project Name: Fairfax 26140

Collected: 06/01/2012 10:50 by CL

Kleinfelder

1 Speen Street

Framingham MA 01701

Submitted: 06/02/2012 09:30

Reported: 06/14/2012 16:59

GFM11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10903	Benzene	71-43-2	7 J	5	10
10903	Ethylbenzene	100-41-4	N.D.	8	10
10903	Methyl Tertiary Butyl Ether	1634-04-4	4,200	50	100
10903	Toluene	108-88-3	21 J	7	10
10903	Xylene (Total)	1330-20-7	34 J	8	10
GC Volatiles		SW-846 8015B	mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	5.2	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 17:07	Linda C Pape	10
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 17:31	Linda C Pape	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T121601AA	06/08/2012 17:07	Linda C Pape	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T121601AA	06/08/2012 17:31	Linda C Pape	100
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12160C20A	06/12/2012 16:01	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	12160C20A	06/12/2012 16:01	Laura M Krieger	1

Sample Description: MW-12 (110 FT) Grab Water
9901 Georgetown Pike Great Falls, VA
Fairfax 26140

LLI Sample # WW 6675571
LLI Group # 1313153
Account # 12152

Project Name: Fairfax 26140

Collected: 06/01/2012 13:55 by CL

Kleinfelder

1 Speen Street

Submitted: 06/02/2012 09:30

Framingham MA 01701

Reported: 06/14/2012 16:59

GF110

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 14:20	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T121601AA	06/08/2012 14:20	Linda C Pape	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12160C20A	06/12/2012 16:23	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	12160C20A	06/12/2012 16:23	Laura M Krieger	1

Sample Description: MW-12 (153 FT) Grab Water
 9901 Georgetown Pike Great Falls, VA
 Fairfax 26140

LLI Sample # WW 6675572
LLI Group # 1313153
Account # 12152

Project Name: Fairfax 26140

Collected: 06/01/2012 13:20 by CL

Kleinfelder
 1 Speen Street
 Framingham MA 01701

Submitted: 06/02/2012 09:30

Reported: 06/14/2012 16:59

GF153

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 14:44	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T121601AA	06/08/2012 14:44	Linda C Pape	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12160C20A	06/12/2012 16:45	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	12160C20A	06/12/2012 16:45	Laura M Krieger	1

Sample Description: PW-01 (65 FT) Grab Water
9901 Georgetown Pike Great Falls, VA
Fairfax 26140

LLI Sample # WW 6675573
LLI Group # 1313153
Account # 12152

Project Name: Fairfax 26140

Collected: 06/01/2012 10:20 by CL

Kleinfelder

1 Speen Street

Submitted: 06/02/2012 09:30

Framingham MA 01701

Reported: 06/14/2012 16:59

GF-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	3 J	1	2
10903	Ethylbenzene	100-41-4	N.D.	2	2
10903	Methyl Tertiary Butyl Ether	1634-04-4	860	10	20
10903	Toluene	108-88-3	N.D.	1	2
10903	Xylene (Total)	1330-20-7	N.D.	2	2
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	1.0	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 17:55	Linda C Pape	2
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 18:19	Linda C Pape	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T121601AA	06/08/2012 17:55	Linda C Pape	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T121601AA	06/08/2012 18:19	Linda C Pape	20
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12164A20A	06/13/2012 13:46	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12164A20A	06/13/2012 13:46	Marie D John	1

Sample Description: MW-13 Grab Water
9901 Georgetown Pike Great Falls, VA
Fairfax 26140

LLI Sample # WW 6675574
LLI Group # 1313153
Account # 12152

Project Name: Fairfax 26140

Collected: 06/01/2012 09:55 by CL

Kleinfelder

1 Speen Street

Submitted: 06/02/2012 09:30

Framingham MA 01701

Reported: 06/14/2012 16:59

GFM65

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	5	10
10903	Ethylbenzene	100-41-4	N.D.	8	10
10903	Methyl Tertiary Butyl Ether	1634-04-4	5,700	50	100
10903	Toluene	108-88-3	N.D.	7	10
10903	Xylene (Total)	1330-20-7	N.D.	8	10
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	4.6	0.10	5

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 18:43	Linda C Pape	10
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 19:07	Linda C Pape	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T121601AA	06/08/2012 18:43	Linda C Pape	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T121601AA	06/08/2012 19:07	Linda C Pape	100
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12164A20A	06/13/2012 15:14	Marie D John	5
01146	GC VOA Water Prep	SW-846 5030B	1	12164A20A	06/13/2012 15:14	Marie D John	5

Sample Description: MW-14 Grab Water
9901 Georgetown Pike Great Falls, VA
Fairfax 26140

LLI Sample # WW 6675575
LLI Group # 1313153
Account # 12152

Project Name: Fairfax 26140

Collected: 06/01/2012 11:55 by CL

Kleinfelder

1 Speen Street

Submitted: 06/02/2012 09:30

Framingham MA 01701

Reported: 06/14/2012 16:59

GFM14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	50	100
10903	Ethylbenzene	100-41-4	N.D.	80	100
10903	Methyl Tertiary Butyl Ether	1634-04-4	91,000	500	1000
10903	Toluene	108-88-3	N.D.	70	100
10903	Xylene (Total)	1330-20-7	N.D.	80	100
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	67	1.0	50

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 19:31	Linda C Pape	100
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 19:55	Linda C Pape	1000
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T121601AA	06/08/2012 19:31	Linda C Pape	100
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T121601AA	06/08/2012 19:55	Linda C Pape	1000
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12164A20A	06/13/2012 15:36	Marie D John	50
01146	GC VOA Water Prep	SW-846 5030B	1	12164A20A	06/13/2012 15:36	Marie D John	50

Sample Description: MW-15 Grab Water
9901 Georgetown Pike Great Falls, VA
Fairfax 26140

LLI Sample # WW 6675576
LLI Group # 1313153
Account # 12152

Project Name: Fairfax 26140

Collected: 06/01/2012 11:10 by CL

Kleinfelder

1 Speen Street

Framingham MA 01701

Submitted: 06/02/2012 09:30

Reported: 06/14/2012 16:59

GFM15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	10	20
10903	Ethylbenzene	100-41-4	N.D.	16	20
10903	Methyl Tertiary Butyl Ether	1634-04-4	14,000	100	200
10903	Toluene	108-88-3	N.D.	14	20
10903	Xylene (Total)	1330-20-7	N.D.	16	20
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	9.7	0.10	5

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 20:18	Linda C Pape	20
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 20:42	Linda C Pape	200
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T121601AA	06/08/2012 20:18	Linda C Pape	20
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T121601AA	06/08/2012 20:42	Linda C Pape	200
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12164A20A	06/13/2012 15:58	Marie D John	5
01146	GC VOA Water Prep	SW-846 5030B	1	12164A20A	06/13/2012 15:58	Marie D John	5

Sample Description: MW-16D (95 FT) Grab Water
 9901 Georgetown Pike Great Falls, VA
 Fairfax 26140

LLI Sample # WW 6675577
LLI Group # 1313153
Account # 12152

Project Name: Fairfax 26140

Collected: 06/01/2012 11:30 by CL

Kleinfelder

1 Speen Street

Submitted: 06/02/2012 09:30

Framingham MA 01701

Reported: 06/14/2012 16:59

GFM16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	140	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	0.31	0.020	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T121601AA	06/08/2012 15:08	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T121601AA	06/08/2012 15:08	Linda C Pape	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	12164A20A	06/13/2012 14:52	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	12164A20A	06/13/2012 14:52	Marie D John	1

Quality Control Summary

Client Name: Kleinfelder
Reported: 06/14/12 at 04:59 PM

Group Number: 1313153

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: T121592AA	Sample number(s): 6675559-6675560							
Benzene	N.D.	0.5	ug/l	97		77-121		
Ethylbenzene	N.D.	0.8	ug/l	98		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	100		68-121		
Toluene	N.D.	0.7	ug/l	100		79-120		
Xylene (Total)	N.D.	0.8	ug/l	99		77-120		
Batch number: T121601AA	Sample number(s): 6675561-6675577							
Benzene	N.D.	0.5	ug/l	106	104	77-121	1	30
Ethylbenzene	N.D.	0.8	ug/l	107	105	79-120	3	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	108	107	68-121	1	30
Toluene	N.D.	0.7	ug/l	108	106	79-120	1	30
Xylene (Total)	N.D.	0.8	ug/l	107	106	77-120	1	30
Batch number: W121611AA	Sample number(s): 6675567							
Benzene	N.D.	0.5	ug/l	103	103	77-121	0	30
Ethylbenzene	N.D.	0.8	ug/l	102	101	79-120	1	30
Toluene	N.D.	0.7	ug/l	107	104	79-120	3	30
Xylene (Total)	N.D.	0.8	ug/l	103	102	77-120	1	30
Batch number: 12160C20A	Sample number(s): 6675559-6675572							
TPH-GRO water C6-C10	N.D.	0.020	mg/l	86	87	75-135	1	30
Batch number: 12164A20A	Sample number(s): 6675573-6675577							
TPH-GRO water C6-C10	N.D.	0.020	mg/l	86		75-135		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: T121592AA	Sample number(s): 6675559-6675560 UNSPK: P674992								
Benzene	96	112	72-134	15	30				
Ethylbenzene	94	111	71-134	17	30				
Methyl Tertiary Butyl Ether	92	108	72-126	15	30				
Toluene	98	116	80-125	16	30				
Xylene (Total)	97	113	79-125	16	30				
Batch number: 12164A20A	Sample number(s): 6675573-6675577 UNSPK: P676805								
TPH-GRO water C6-C10	87	91	75-135	4	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Kleinfelder
Reported: 06/14/12 at 04:59 PM

Group Number: 1313153

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
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Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 Std. Water Master
Batch number: T121592AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6675559	101	101	101	103
6675560	102	100	100	102
Blank	99	99	100	102
LCS	101	101	102	105
MS	100	99	101	107
MSD	101	101	104	107
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 Std. Water Master
Batch number: T121601AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6675561	103	104	102	103
6675562	104	104	100	101
6675563	104	102	101	101
6675564	104	102	102	104
6675565	105	102	101	102
6675566	103	101	100	102
6675568	104	102	100	103
6675569	104	100	101	104
6675570	103	102	101	101
6675571	104	103	102	103
6675572	105	102	102	104
6675573	104	103	100	100
6675574	104	103	100	102
6675575	103	102	101	103
6675576	103	102	101	103
6675577	105	102	100	103
Blank	102	101	101	102
LCS	103	100	103	105
LCSD	103	101	101	106
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 8260 Std. Water Master
Batch number: W121611AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6675567	95	99	102	99

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Kleinfelder
Reported: 06/14/12 at 04:59 PM

Group Number: 1313153

Surrogate Quality Control

Blank	96	99	101	98
LCS	97	100	102	100
LCSD	97	101	101	99

Limits: 80-116 77-113 80-113 78-113

Analysis Name: TPH-GRO water C6-C10
Batch number: 12160C20A
Trifluorotoluene-F

6675559	87
6675560	87
6675561	86
6675562	86
6675563	86
6675564	85
6675565	85
6675566	96
6675567	87
6675568	86
6675569	84
6675570	124
6675571	85
6675572	84
Blank	87
LCS	108
LCSD	108

Limits: 63-135

Analysis Name: TPH-GRO water C6-C10
Batch number: 12164A20A
Trifluorotoluene-F

6675573	93
6675574	88
6675575	89
6675576	91
6675577	88
Blank	86
LCS	108
MS	103
MSD	108

Limits: 63-135

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152

Group #: 1313153 Sample #: 66675559-77

Client: <u>Fairfax Petroleum</u> Acct. #: _____		Matrix		Analyses Requested				For Lab Use Only					
Project Name#: <u>26140/ Great Falls</u> PWSID #: _____				Preservation Codes				FSC: _____					
Project Address: <u>9901 Georgetown Pike Great Falls, VA</u>								SCR#: _____					
Project Manager: <u>Brian Barone</u> P.O. #: <u>08531-117575</u>								Preservation Codes H=HCl T=Thiosulfate N=HNO3 B=NaOH S=H2SO4 O=Other					
Sampler: <u>Charlie Low / Joe Gallo</u> Quote #: _____								Temperature of samples upon receipt (if requested)					
Name of State where samples were collected: <u>Virginia</u>													
Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix			Total # of Containers	BTEX, MTBE 8260		TPH-GRO 8015		Remarks
					Soil	Water	Other		H	H			
MW-1	<u>6-1-12</u>	<u>1025</u>	X			X		6	X	X			Page 1 of 2 (cc) Cooler 1 of 2
MW-2		<u>1125</u>	X			X		6	X	X			
MW-3													
MW-5	<u>6-1-12</u>	<u>0725</u>	X			X		6	X	X			
MW-6S		<u>0815</u>	X			X		6	X	X			
MW-6D (65 ft)		<u>0850</u>	X			X		6	X	X			
MW-6D (85 ft)		<u>0815</u>	X			X		6	X	X			
MW-6D (105 ft)		<u>0740</u>	X			X		6	X	X			
MW-7		<u>1015</u>	X			X		6	X	X			
MW-8		<u>0915</u>	X			X		6	X	X			
Turnaround Time Requested (TAT) (please circle): <u>Normal</u> Rush				Relinquished by: <u>Charlie Low</u>		Date: <u>6-1-12</u>	Time: <u>1630</u>	Received by: <u>Fed Ex</u>	Date: <u>6-1-12</u>	Time: <u>1630</u>			
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)				Relinquished by: _____		Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____			
Date results are needed: _____				Relinquished by: _____		Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____			
Rush results requested by (please circle): Phone Fax E-mail				Relinquished by: _____		Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____			
Phone #: _____ Fax #: _____				Relinquished by: _____		Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____			
E-mail address: _____				Relinquished by: _____		Date: _____	Time: _____	Received by: _____	Date: <u>6/1/12</u>	Time: <u>0930</u>			
Data Package Options (please circle if required)			SDG Complete? Yes No		Relinquished by: _____		Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____		
Type I (validation/NJ reg) TX-TRRP-13			Yes No		Relinquished by: _____		Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____		
Type II (Tier II) MA MCP CT RCP					Relinquished by: _____		Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____		
Type III (Reduced NJ)			State-specific QC (MS/MSD/Dup)? Yes No		Relinquished by: _____		Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____		
Type IV (CLP SOW)			(If yes, indicated QC sample and submit triplicate volume)		Relinquished by: _____		Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____		
Type VI (Raw Data Only)			Internal COC required? Yes No		Relinquished by: _____		Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____		

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Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152

Group #: 1313153 Sample #: 66675558-77

Client: <u>Fairfax Petroleum</u> Acct. #: _____		Matrix		Analyses Requested		For Lab Use Only										
Project Name#: <u>26140/ Great Falls</u> PWSID #: _____				Preservation Codes		FSC: _____										
Project Address: <u>9901 Georgetown Pike Great Falls, VA</u>						SCR#: _____										
Project Manager: <u>Brian Barone</u> P.O. #: <u>08531-117575</u>																
Sampler: <u>Charlie Low / Joe Gallo</u> Quote #: _____																
Name of State where samples were collected: <u>Virginia</u>																
						Preservation Codes H-HCl T-Tin sulfate H-HNO3 B-NaOH B-H2SO4 O-Other										
						Temperature of samples upon receipt (if requested)										
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total # of Containers	BTEX, MTBE 8260	TPH-GRO 8015	Remarks					
MW-9	6-1-12	0930	X			X		6	X	X	Page 2 of 2 Cooler 1 of 2					
MW-10		0950	X			X		6	X	X						
MW-11		1050	X			X		6	X	X						
MW-12 (110ft)		1355	X			X		6	X	X						
MW-12 (153ft)		1320	X			X		6	X	X						
PW-01 (65ft)		1020	X			X		6	X	X						
MW-13		0955	X			X		6	X	X						
MW-14		1155	X			X		6	X	X						
MW-15		1110	X			X		6	X	X						
MW-16D (95ft)		1130	X			X		6	X	X						
Turnaround Time Requested (TAT) (please circle) <u>Normal</u> Rush (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)					Relinquished by: <u>Phil K</u> Date: <u>6-1-12</u> Time: <u>1630</u> Received by: <u>FedEx</u> Date: <u>6-1-12</u> Time: <u>1630</u>											
Date results are needed: _____ Rush results requested by (please circle): Phone Fax E-mail Phone #: _____ Fax #: _____ E-mail address: _____					Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____											
Data Package Options (please circle if required) Type I (validation/NJ reg) TX-TRRP-13 Type II (Tier II) MA MCP CT RCP Type III (Reduced NJ) Type IV (CLP SOW) Type VI (Raw Data Only)					SDG Complete? Yes No State-specific QC (MS/MSD/Dup)? Yes No (If yes, indicated QC sample and submit triplicate volume) Internal COC required? Yes No											
					Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____											
					Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____											
					Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____											

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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