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VIA ELECTRONIC MAIL

January 30, 2015

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

RE: Fourth Quarter 2014 CAP Monitoring Report
Inactive Fairfax Facility # 26140
9901 Georgetown Pike
Great Falls, Fairfax County, Virginia
PC# 2010-3028

Dear Mr. Wardle:

Kleinfelder, on behalf of Fairfax Petroleum Realty, LLC (Fairfax), is submitting this Corrective Action Plan (CAP) Monitoring Report for the above-referenced facility. This report outlines the activities completed during the Fourth Quarter 2014 and includes a recommendation to discontinue operation of the soil vapor extraction at the site.

Fairfax Petroleum and Kleinfelder appreciate the continued guidance of the DEQ in the successful completion of this project. Please feel free to contact us at (410) 850-0404 should you have questions.

Sincerely,

KLEINFELDER

Paxton Wertz
Geologist

Mark C. Steele
Senior Program Manager

Attachment

cc: Ms. Megan Tingley – Fairfax Petroleum Realty, LLC

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CAP MONITORING REPORT – FOURTH QUARTER 2014
INACTIVE FAIRFAX FACILITY # 26140
9901 GEORGETOWN PIKE
GREAT FALLS, FAIRFAX COUNTY, VIRGINIA

REGULATORY INFORMATION

Regulatory Agency:	Virginia Department of Environmental Quality (DEQ)
Agency Contact:	Mr. Alexander Wardle
Pollution Complaint No.:	2010-3028
Current Case Status:	Corrective Action Plan (CAP) Implementation
Reporting Period:	October 1 through December 31, 2014
Last Report:	Corrective Action Plan Addendum (CAPA), October 2, 2014

GENERAL SITE INFORMATION

Fairfax Petroleum Realty Contact:	Ms. Megan Tingley
Consultant Contact:	Mr. Mark C. Steele
Facility Status:	Inactive retail service station with auto repair facilities. The UST system was removed in August 2012.
Area Property Use:	See Local Area Map (**Figure 1**)
Site Well Network:	MW-1 through MW-3, MW-5, MW-6S, MW-6D, MW-7, MW-9 through MW-20D, MW-21I, MW-21S, MW-22, MW-23D, MW-24, W-1 through W-7, PW-1, and RW-1 (**Figure 2** and **Table 1**)
Soil Vapor Monitoring Points	VP-1, VP-2S, VP-2D, and VP-3
Site Geology:	Schist saprolite grading to competent schist bedrock
Groundwater Flow Directions:	Southeast / South

ACTIVITIES COMPLETED THIS PERIOD

Monitoring, Bedrock, and CMT Well Gauging and Sampling

Groundwater gauging and sampling was conducted on the Site monitoring well network, including open bedrock wells and the continuous multichannel tubing (CMT) well, during the Fourth Quarter 2014. Groundwater gauging was conducted during the sampling event and as independent activities to monitoring static groundwater elevations. The gauging data used to generate potentiometric surface maps is included as **Table 2** and depicted on **Figures 3** through **6**. Monitoring wells were purged using the low flow parameter stabilization sampling methodology with a submersible electric pump and a YSI, Inc. (YSI) multi-parameter water quality meter. Groundwater samples were submitted under chain of custody protocol to Lancaster Laboratories for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tertiary butyl ether (MTBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), ethyl tertiary butyl ether (ETBE), and di-Isopropyl ether (DIPE) using EPA Method 8260B. A summary of groundwater analytical results is presented in **Tables 3** and **4**; and are included on **Figures 5** and **6**. A summary of monitoring and natural attenuation parameters collected during sampling is presented in **Table 5**. The Lancaster Laboratories Analysis Reports for groundwater are included as **Appendix A**.

A summary of the Site gauging and sampling conducted during the Fourth Quarter 2014 is provided below.

October 21, 2014

Well Gauged and Sampled:	MW-23D

November 6, 2014

Wells Gauged:	MW-1 through MW-3, MW-5 through MW-7, MW-9 through MW-27S/I SVE-2, PW-1, W-1 through W-7, GFSCMW-2, GFSCMW-3, and RW-1 (41 wells and 7 CMT intervals)
Minimum/Maximum Depth to Water:	3.01 (MW-26D) / 53.85 (RW-1) feet

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Shallow Groundwater Flow Direction:	Radially towards RW-1; Southeast / South
Shallow Hydraulic Gradient:	0.163 ft/ft between W-2 and RW-1
Deep Groundwater Flow Direction:	Radially towards RW-1; Southeast / South
Deep Hydraulic Gradient – Southeast:	0.111 ft/ft between MW-20D and RW-1

December 8-10, 2014

Wells Gauged and Sampled:	MW-15, MW-16D, MW-17D, MW-21S/I, MW-23D, MW-25D, MW-26D, MW-27S/I, PW-1, W-1, W-2, W-6, and W-7.
Wells Gauged Only:	MW-1, MW-2, MW-3, MW-5, MW-6S/D, MW-7, MW-9, MW-10, MW-11, MW-13, MW-14, MW-18D, MW-19D, MW-20D, MW-22, MW-24, SVE-2, W-3 through W-5, GFSCMW-3, and RW-1.
Minimum/Maximum Depth to Water:	2.46 (MW-26D) / 58.61 (RW-1) feet
Shallow Groundwater Flow Direction:	Radially towards RW-1; Southeast / South
Shallow Hydraulic Gradient:	0.197 ft/ft between W-2 and RW-1
Deep Groundwater Flow Direction:	Radially towards RW-1; Southeast / South
Deep Hydraulic Gradient:	0.139 ft/ft between MW-20D and RW-1

Select wells in the Site monitoring well network were gauged on November 6, 2014 and December 9, 2014 to evaluate the effect of pumping from the extraction well RW-1 on the deep and shallow portions of the aquifer. The results of the gauging are included on **Table 2**. The shallow and deep potentiometric surface maps for November and December 2014 are included as **Figures 3** and **4** and **Figures 5** and **6**; respectively. During the November and December 2014 monitoring well gauging events, monitoring wells MW-1, MW-2, MW-3, MW-7, and MW-11 were dry or contained less than two feet of water column in the well. The apparent groundwater flow direction during both events was radial towards the groundwater recovery system extraction well RW-1 for both the shallow and deep portions of the aquifer. The apparent groundwater flow direction outside the extraction well radius of influence was toward the southeast / south in the

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shallow portion of the aquifer. The apparent direction of groundwater flow outside of the extraction well radius of influence is undetermined in the deep portion of the aquifer because all deep wells except MW-12D and MW-26D lie within the influenced area of the groundwater recovery system, but is inferred to be toward the southeast / south based on groundwater elevation data acquired before the groundwater recovery system commenced operation.

A groundwater gauging and sampling event was conducted at the Site from December 8 through December 10, 2014. Groundwater samples were collected from select on-site and off-site monitoring wells in accordance with the monitoring schedule presented in the October 2, 2014 CAPA and the approved Activity Authorization Form (AAF) for the reporting period. Monitoring wells MW-1, MW-2, and MW-7 contained an insufficient volume of water (i.e. less than 2 feet) or were dry during the sampling event and groundwater samples were not collected from these wells. Groundwater monitoring and analytical data for the shallow and deep monitoring wells is summarized in **Tables 3** and **4**, respectively. An MTBE isoconcentration map of the analytical results from the shallow wells is included as **Figure 7**. An MTBE isoconcentration map of the analytical results from the deep wells is included as **Figure 8**.

FOURTH QUARTER 2014 REMEDIAL ACTIVITIES

Soil vapor extraction (SVE) and groundwater recovery systems operated at the Site during the Fourth Quarter 2014. System operations and maintenance (O&M) activities were completed for each system during the quarter. Typical SVE O&M activities include sample collection, maintaining a record of system performance data, vacuum applied to the extraction wells, and vacuum influence and depth to water in monitoring wells. Typical groundwater recovery system O&M activities include groundwater gauging, system performance and permit required sample collection, maintaining a record of system performance data, equipment inspection and preventative maintenance, and exchanging consumable materials, such as bag filters and filter media, as necessary. A summary of system performance is included below.

Soil Vapor Extraction System

Percent Run Time	
Fourth Quarter 2014:	100% (September 30, through December 29, 2014)

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Technique:	Soil vapors are extracted from six extraction wells [Soil Vapor Extraction (SVE) well SVE-1 through SVE-5, and monitoring well MW-14] utilizing a rotary claw pump.
Permits:	Permit exemption granted on January 24, 2014
Discharge Monitoring Frequency:	Monthly
Extraction Well(s) Open:	SVE-1 through SVE-5, and MW-14
Average Flow Rate:	196.0 cfm

Estimated Vapor Phase Hydrocarbon Removal (TPH> C_4-C_{10}):

Reporting Period (September 30 through December 29, 2014): 144.8 pounds

Since system start-up (June 17, 2014 through December 29, 2014): 159.7 pounds

Remediation system vapor monitoring, performance data, and system operation and maintenance are summarized in **Table 6**. Additionally, wellhead vacuum readings collected during system checks are summarized in **Table 6**. A review of **Table 6** indicates that significant vacuum influence (1% of applied vacuum at SVE well-heads) was observed in monitoring wells north and south of the former tank field.

Three SVE effluent samples were collected for laboratory analysis of BTEX, MTBE, TPH carbon range C1-C4, and TPH carbon range >C4-C10 using EPA Methods 18 and 25. The data is summarized in **Table 6** and the Lancaster Laboratories Analysis Reports are included within **Appendix B**. Constituents of concern were not detected above the laboratory reporting limits in the submitted SVE effluent samples.

Groundwater Recovery System

Percent Run Time

Fourth Quarter 2014:	92% (September 30 through December 29, 2014)
Technique:	Groundwater is extracted from two extraction wells (MW-16D and RW-1) via an electric submersible pump. Operation of MW-16D was not

	warranted during the Fourth Quarter 2014.
Permits:	VPDES Permit # VAG830477
Discharge Monitoring Frequency:	Twice Monthly
Extraction Well(s) Operating:	RW-1
Average Flow Rate:	8.16 gallons per minute (gpm)

Estimated MTBE Mass Removal:

Reporting Period (September 30, 2014 through December 29, 2014): 110.68 pounds.

Since system start-up (August 28, 2014 through December 29, 2014): 188.56 pounds.

Remediation system groundwater monitoring, performance data, and system operation and maintenance visits are summarized in **Table 7**. Six groundwater recovery system effluent samples were collected for laboratory analysis in the reporting period (**Appendix C**). In accordance with the Virginia Pollution Discharge Elimination System (VPDES) permit samples were analyzed for BTEX and MTBE twice monthly, as well as chlorinated VOCs once monthly.

On December 3, 2014, a change out of 3,000 pounds of spent liquid granular activated carbon (LGAC) for the groundwater treatment system was performed. Following carbon change out, the liquid phase carbon units were then filled with potable water to hydrate the LGAC and the groundwater recovery system was restarted approximately 21 hours later.

RECOMMENDATIONS

As per the CAPA, the remedial endpoint for soil vapor has been achieved and concentrations of petroleum hydrocarbons including MTBE above laboratory detection limits have not been measured during the six month operation of the SVE system. The lack of vapor phase recovery at the Site is not unexpected given 1) the USTs and associated infrastructure have been removed and the tank field area open for approximately two years, 2) petroleum hydrocarbons and MTBE were detected at low to negligible concentrations in soil samples collected from the vadose zone; and 3) petroleum hydrocarbons and MTBE in the soil vapor samples collected prior to the start of the SVE system in March 2014 were below detection laboratory limits. The absence

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of recovered mass from the SVE system and the lack of quantifiable hydrocarbons in the soil vapor samples suggest limited vapor phase hydrocarbons remain in the vadose zone at the Site and continued operation of the SVE system is not considered warranted. Kleinfelder, on behalf of Fairfax Petroleum, recommends shut down of the SVE system. A written response to this request is appreciated.

ACTIVITIES PLANNED FOR NEXT PERIOD (FIRST QUARTER 2015)

Activities planned for the First Quarter 2015 include cessation of SVE system operation pending DEQ approval, continued operation and maintenance of the groundwater recovery system, submit a new permit application to the Virginia Department of Transportation in order to maintain monitoring well MW-18D, and one groundwater sampling event in March 2015 of select monitoring wells in accordance with the approved AAF.

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

1 Local Area Map
2 Site Plan
3 Potentiometric Surface Map – Shallow Wells (November 6, 2014)
4 Potentiometric Surface Map – Deep Wells (November 6, 2014)
5 Hydrocarbon Distribution / Groundwater Contour Map – Shallow Wells (December 9 through 11, 2014)
6 Hydrocarbon Distribution / Groundwater Contour Map – Deep Wells (December 8 through 10, 2014)
7 MTBE Isoconcentration Map – Shallow Wells (December 8 through 10, 2014)
8 MTBE Isoconcentration Map – Deep Wells (December 8 through 10, 2014)

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TABLES

APPENDICES

Sincerely yours,

KLEINFELDER

Paxton D. Wertz
Geologist

Mark C. Steele
Senior Program Manager

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FIGURES

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PROJECT NO.	20143589
DRAWN:	9/19/14
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FILE NAME:	26140_LAM_07_14.mxd

LOCAL AREA MAP

INACTIVE FAIRFAX FACILITY # 26140
9901 GEORGETOWN PIKE
GREAT FALLS, VIRGINIA

FIGURE
1

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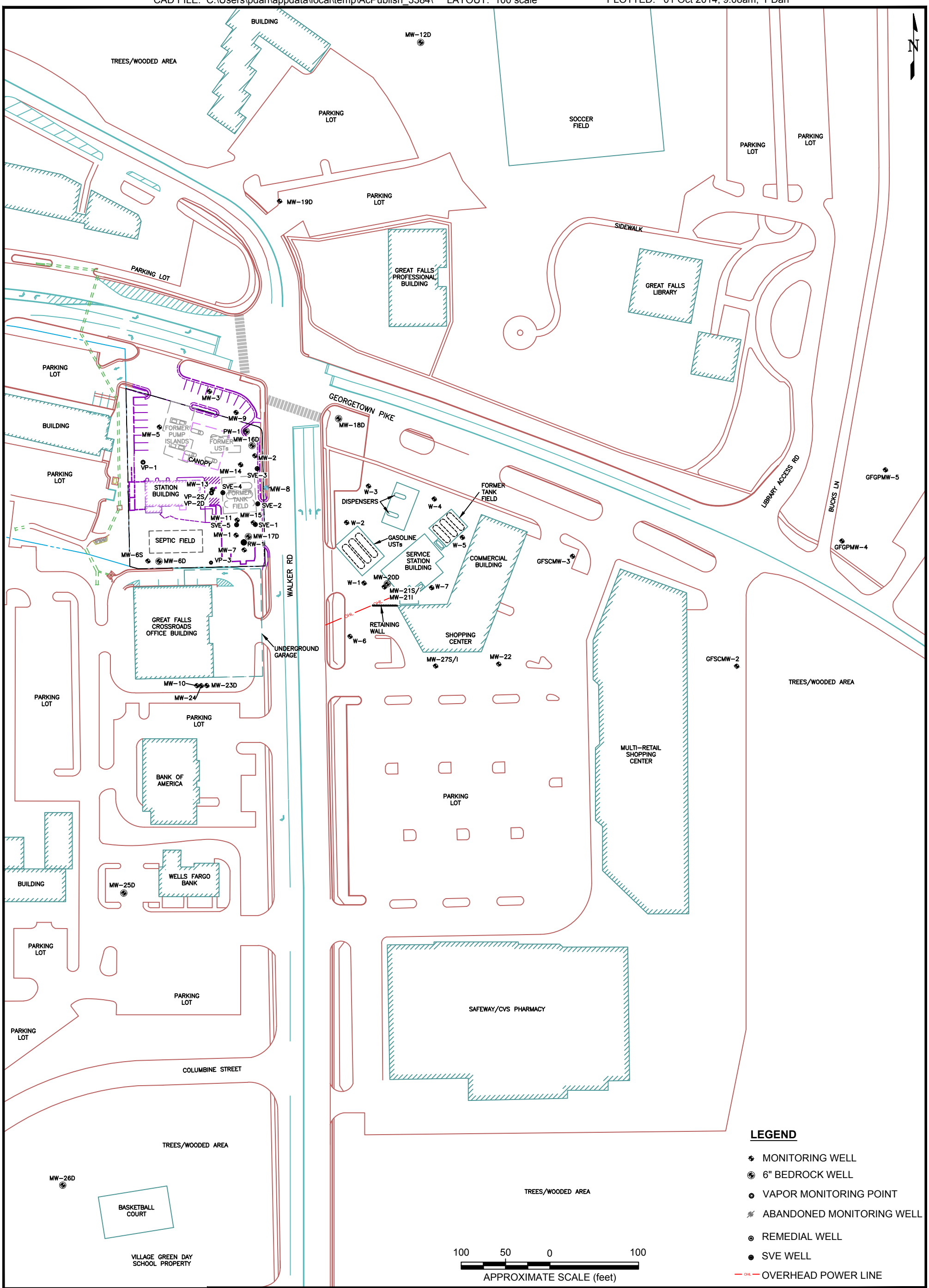

LEGEND

- MONITORING WELL
- 6" BEDROCK WELL
- VAPOR MONITORING POINT
- ABANDONED MONITORING WELL
- REMEDIAL WELL
- SVE WELL
- OHL — OVERHEAD POWER LINE

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PROJECT NO.	138529
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FILE NAME:	26140_SP_14.dwg

SITE PLAN

INACTIVE FAIRFAX FACILITY #26140
9901 GEORGETOWN PIKE
GREAT FALLS, VIRGINIA

FIGURE
2

ATTACHED IMAGES:
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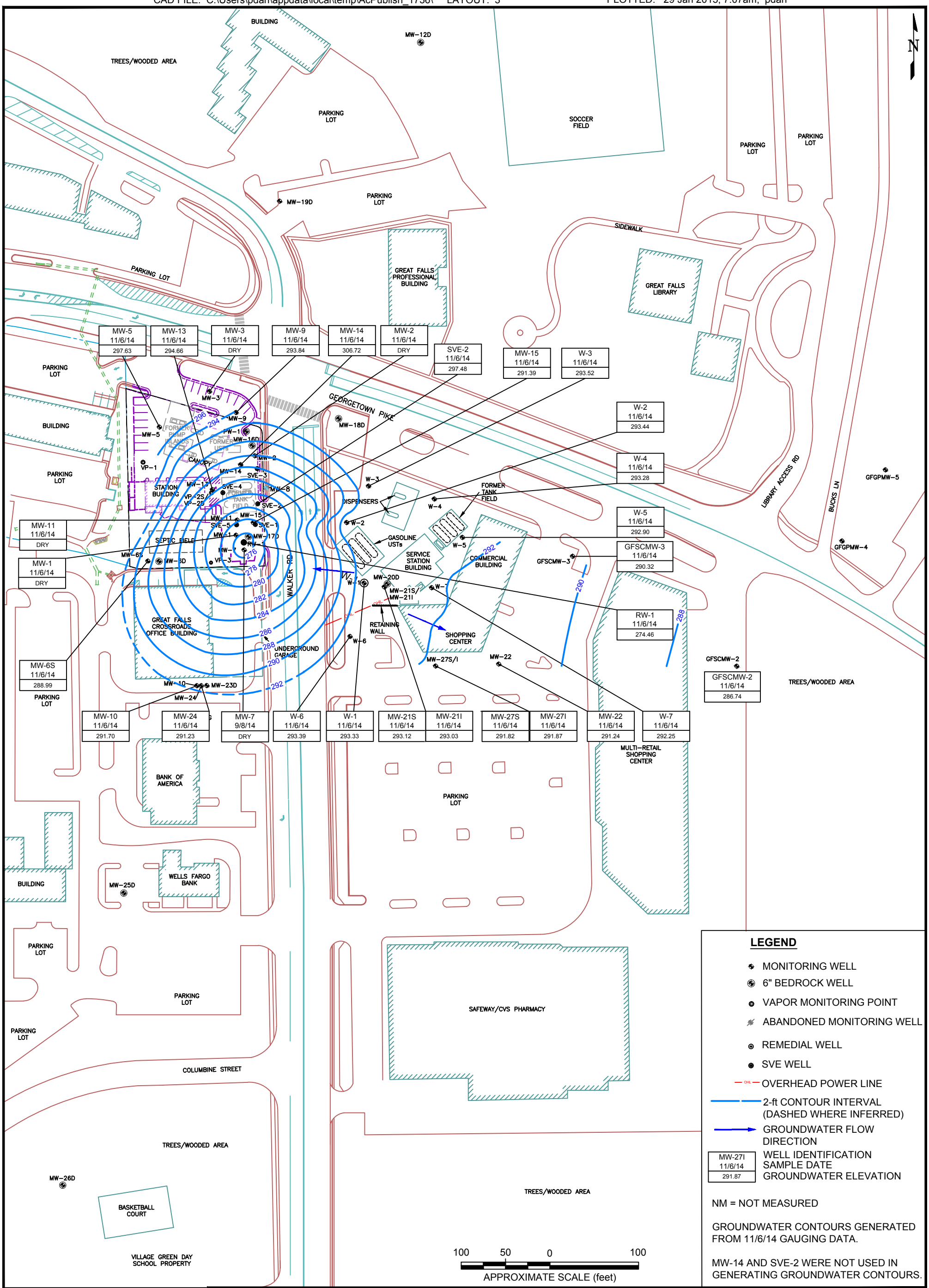

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PROJECT NO.	20153508
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FILE NAME:	26140_SP_14.dwg

SHALLOW MONITORING WELL POTENTIOMETRIC SURFACE MAP NOVEMBER 6, 2014

INACTIVE FAIRFAX FACILITY #26140
9901 GEORGETOWN PIKE
GREAT FALLS, VIRGINIA

FIGURE
3

ATTACHED IMAGES:
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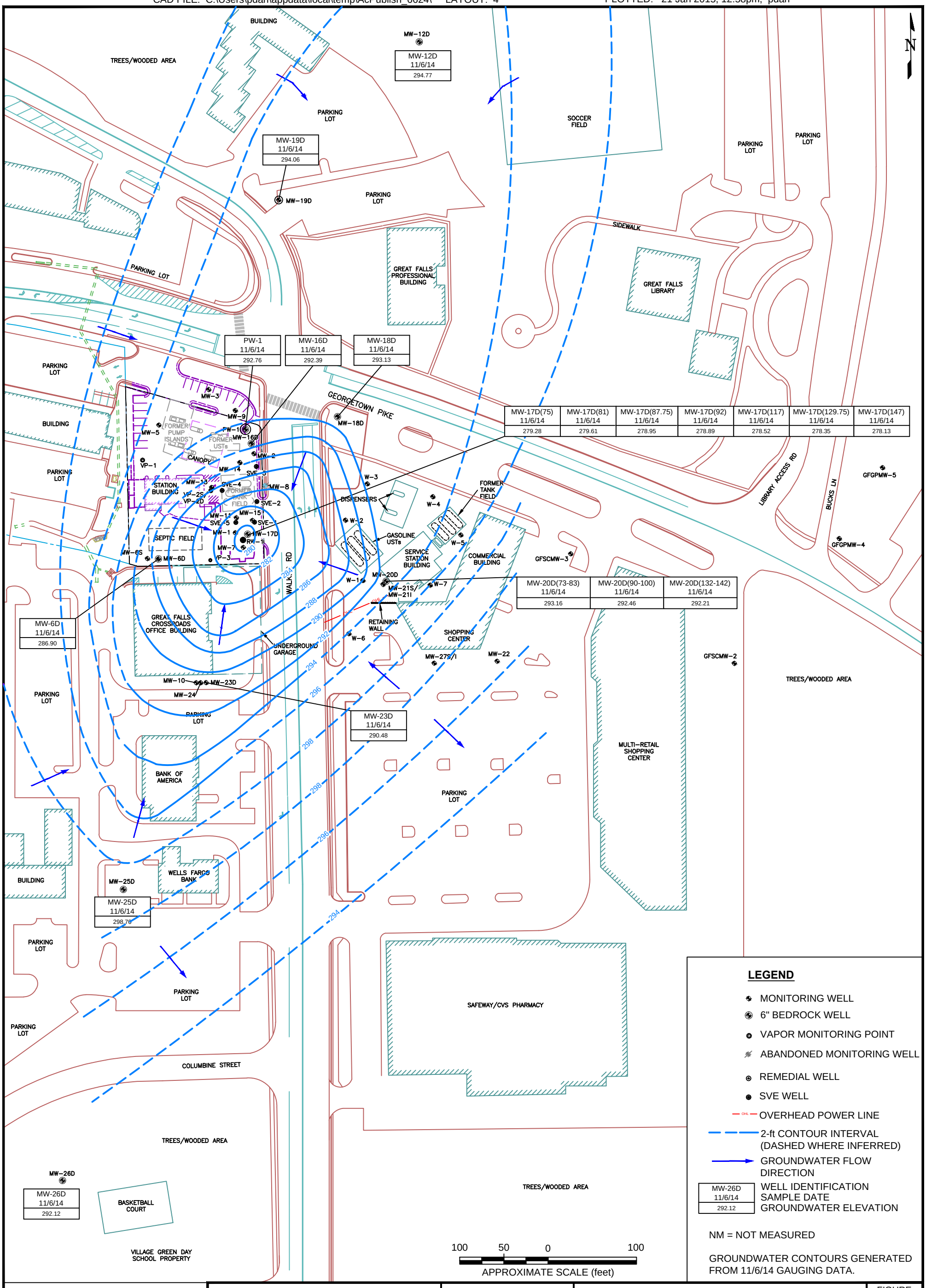

LEGEND

- MONITORING WELL
- 6" BEDROCK WELL
- VAPOR MONITORING POINT
- ABANDONED MONITORING WELL
- REMEDIAL WELL
- SVE WELL
- OHL — OVERHEAD POWER LINE
- 2-ft CONTOUR INTERVAL (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION
- MW-26D 11/6/14 292.12 — WELL IDENTIFICATION, SAMPLE DATE, GROUNDWATER ELEVATION

NM = NOT MEASURED

GROUNDWATER CONTOURS GENERATED FROM 11/6/14 GAUGING DATA.

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PROJECT NO.	20153508
DRAWN:	1/16/2015
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FILE NAME:	26140_SP_14.dwg

DEEP MONITORING WELL POTENTIOMETRIC SURFACE MAP NOVEMBER 6, 2014

INACTIVE FAIRFAX FACILITY #26140
9901 GEORGETOWN PIKE
GREAT FALLS, VIRGINIA

FIGURE
4

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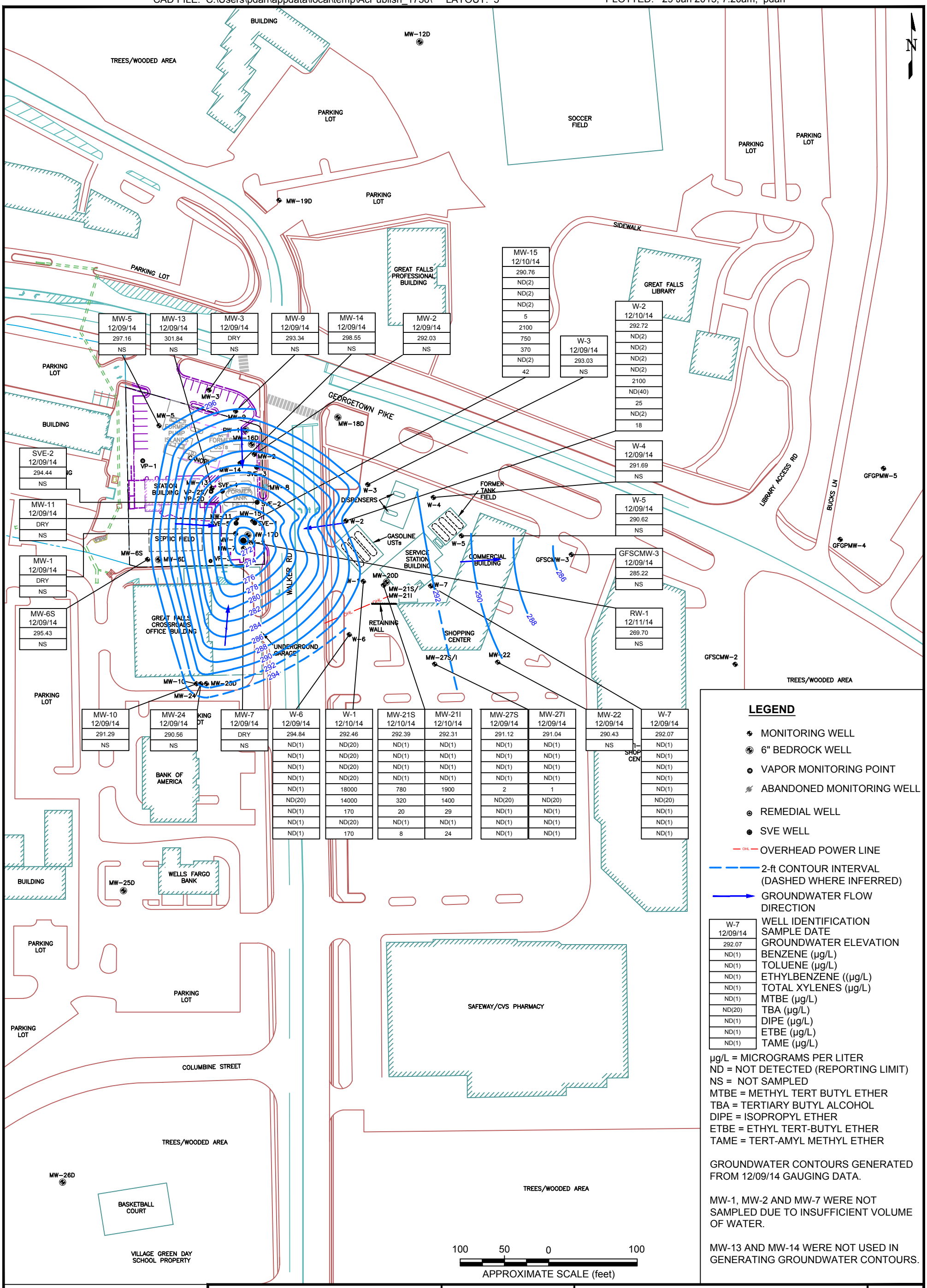

LEGEND

- MONITORING WELL
- 6" BEDROCK WELL
- VAPOR MONITORING POINT
- ABANDONED MONITORING WELL
- REMEDIAL WELL
- SVE WELL
- OHL — OVERHEAD POWER LINE
- 2-ft CONTOUR INTERVAL (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

W-7 12/09/14	WELL IDENTIFICATION SAMPLE DATE
292.07	GROUNDWATER ELEVATION
ND(1)	BENZENE (µg/L)
ND(1)	TOLUENE (µg/L)
ND(1)	ETHYLBENZENE ((µg/L)
ND(1)	TOTAL XYLENES (µg/L)
ND(1)	MTBE (µg/L)
ND(20)	TBA (µg/L)
ND(1)	DIPE (µg/L)
ND(1)	ETBE (µg/L)
ND(1)	TAME (µg/L)

µg/L = MICROGRAMS PER LITER
ND = NOT DETECTED (REPORTING LIMIT)
NS = NOT SAMPLED
MTBE = METHYL TERT BUTYL ETHER
TBA = TERTIARY BUTYL ALCOHOL
DIPE = ISOPROPYL ETHER
ETBE = ETHYL TERT-BUTYL ETHER
TAME = TERT-AMYL METHYL ETHER

GROUNDWATER CONTOURS GENERATED FROM 12/09/14 GAUGING DATA.

MW-1, MW-2 AND MW-7 WERE NOT SAMPLED DUE TO INSUFFICIENT VOLUME OF WATER.

MW-13 AND MW-14 WERE NOT USED IN GENERATING GROUNDWATER CONTOURS.

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SHALLOW MONITORING WELL GROUNDWATER CONTOUR / HYDROCARBON DISTRIBUTION MAP DECEMBER 9-11, 2014

INACTIVE FAIRFAX FACILITY #26140
9901 GEORGETOWN PIKE
GREAT FALLS, VIRGINIA

FIGURE
5

ATTACHED IMAGES:
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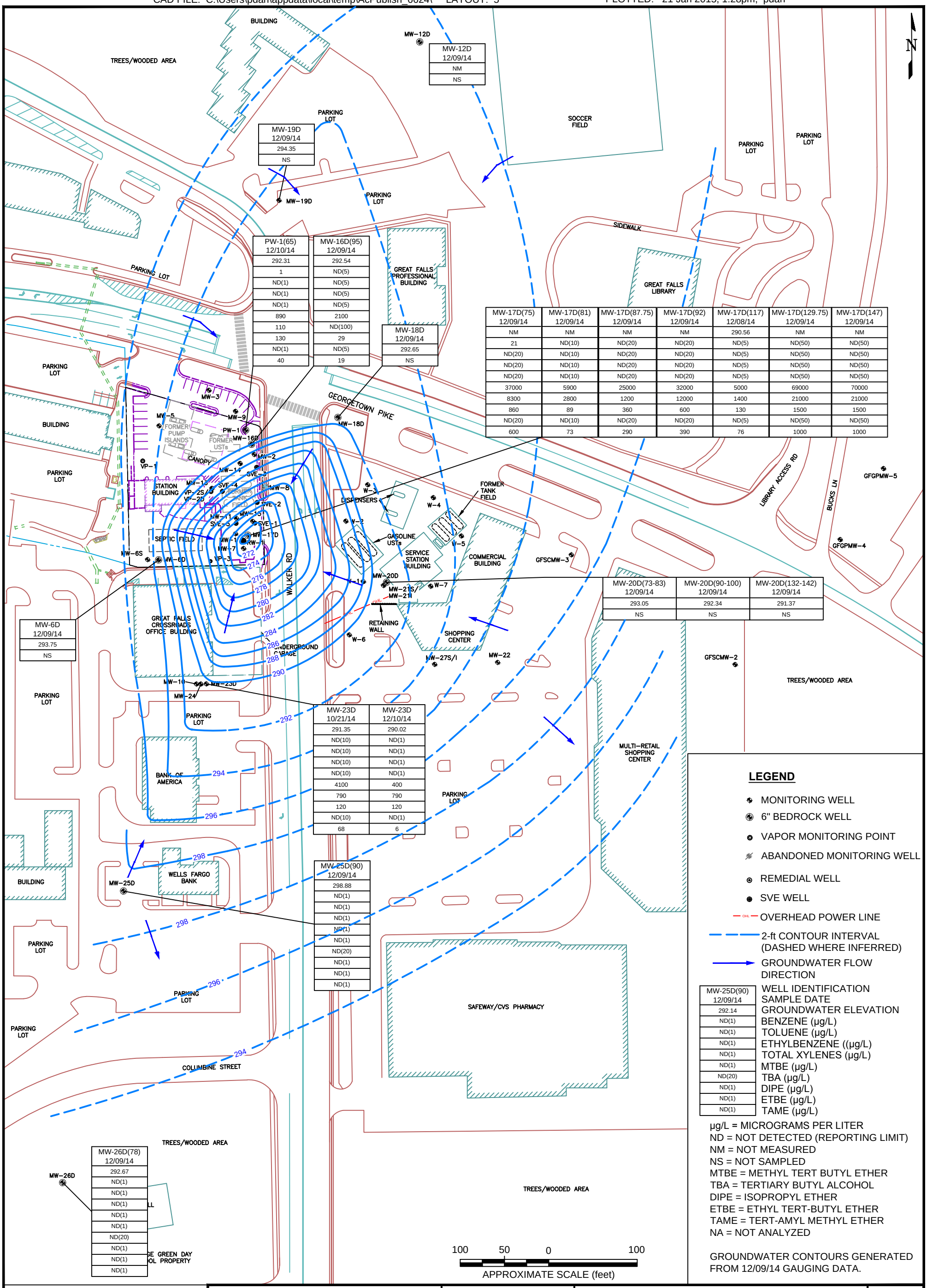

LEGEND

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- 6" BEDROCK WELL
- VAPOR MONITORING POINT
- ABANDONED MONITORING WELL
- REMEDIAL WELL
- SVE WELL
- OHL — OVERHEAD POWER LINE
- 2-ft CONTOUR INTERVAL (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

MW-25D(90) 12/09/14	
MW-25D(90)	WELL IDENTIFICATION
12/09/14	SAMPLE DATE
292.14	GROUNDWATER ELEVATION
ND(1)	BENZENE (µg/L)
ND(1)	TOLUENE (µg/L)
ND(1)	ETHYLBENZENE ((µg/L)
ND(1)	TOTAL XYLENES (µg/L)
ND(1)	MTBE (µg/L)
ND(20)	TBA (µg/L)
ND(1)	DIPE (µg/L)
ND(1)	ETBE (µg/L)
ND(1)	TAME (µg/L)

µg/L = MICROGRAMS PER LITER
ND = NOT DETECTED (REPORTING LIMIT)
NM = NOT MEASURED
NS = NOT SAMPLED
MTBE = METHYL TERT BUTYL ETHER
TBA = TERTIARY BUTYL ALCOHOL
DIPE = ISOPROPYL ETHER
ETBE = ETHYL TERT-BUTYL ETHER
TAME = TERT-AMYL METHYL ETHER
NA = NOT ANALYZED

GROUNDWATER CONTOURS GENERATED FROM 12/09/14 GAUGING DATA.

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PROJECT NO. 20153508
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DEEP MONITORING WELL GROUNDWATER CONTOUR / HYDROCARBON DISTRIBUTION MAP DECEMBER 8-10, 2014

INACTIVE FAIRFAX FACILITY #26140
9901 GEORGETOWN PIKE
GREAT FALLS, VIRGINIA

FIGURE
6

ATTACHED IMAGES:
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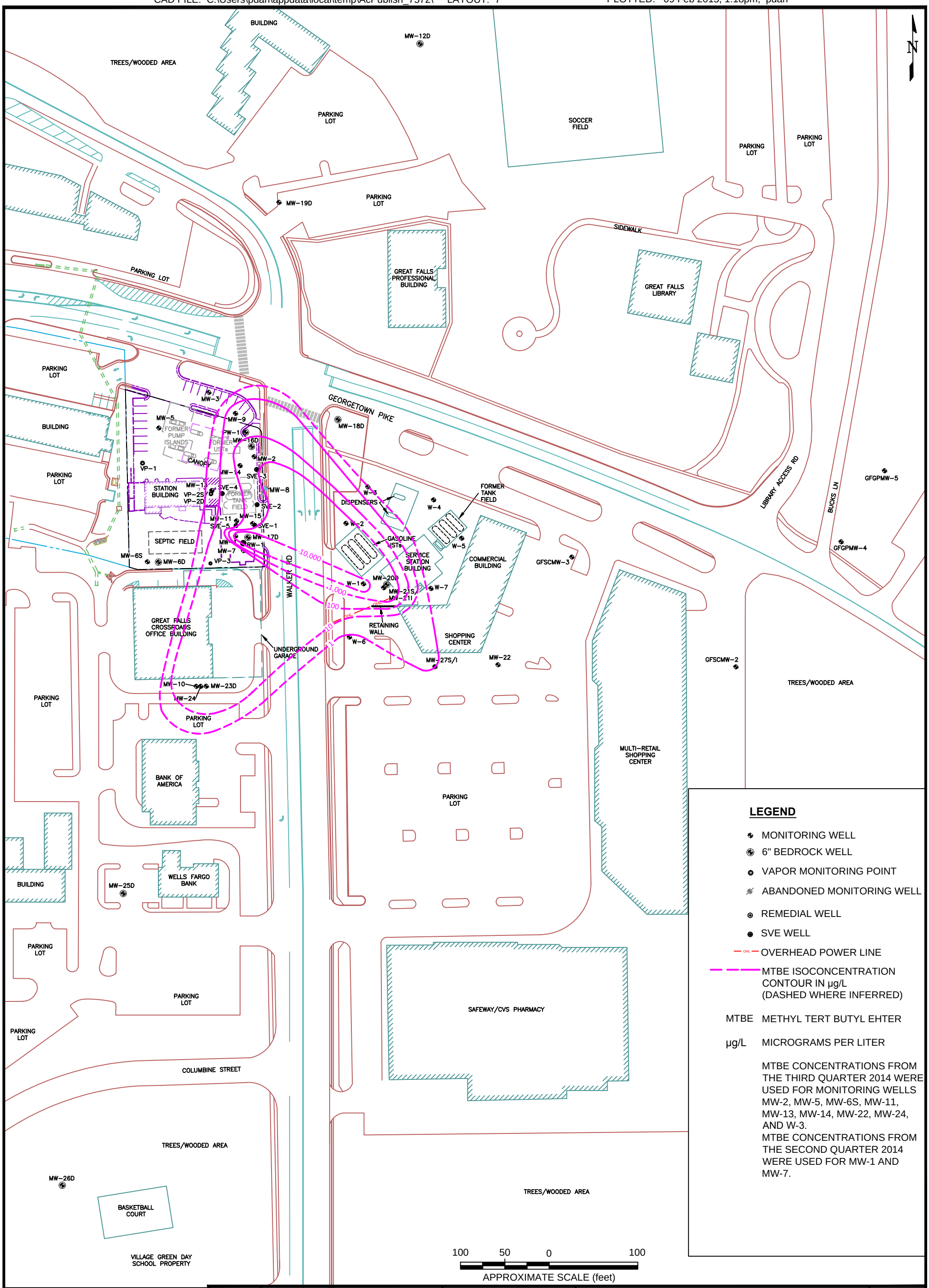

LEGEND

- MONITORING WELL
- 6" BEDROCK WELL
- VAPOR MONITORING POINT
- ABANDONED MONITORING WELL
- REMEDIAL WELL
- SVE WELL
- OHL OVERHEAD POWER LINE
- MTBE ISOCONCENTRATION CONTOUR IN µg/L (DASHED WHERE INFERRED)

MTBE METHYL TERT BUTYL EHTER

µg/L MICROGRAMS PER LITER

MTBE CONCENTRATIONS FROM THE THIRD QUARTER 2014 WERE USED FOR MONITORING WELLS MW-2, MW-5, MW-6S, MW-11, MW-13, MW-14, MW-22, MW-24, AND W-3.
MTBE CONCENTRATIONS FROM THE SECOND QUARTER 2014 WERE USED FOR MW-1 AND MW-7.

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PROJECT NO.	20153508
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MTBE ISOCONCENTRATION MAP SHALLOW MONITORING WELLS DECEMBER 9, 2014

INACTIVE FAIRFAX FACILITY #26140
9901 GEORGETOWN PIKE
GREAT FALLS, VIRGINIA

FIGURE
7

ATTACHED IMAGES:
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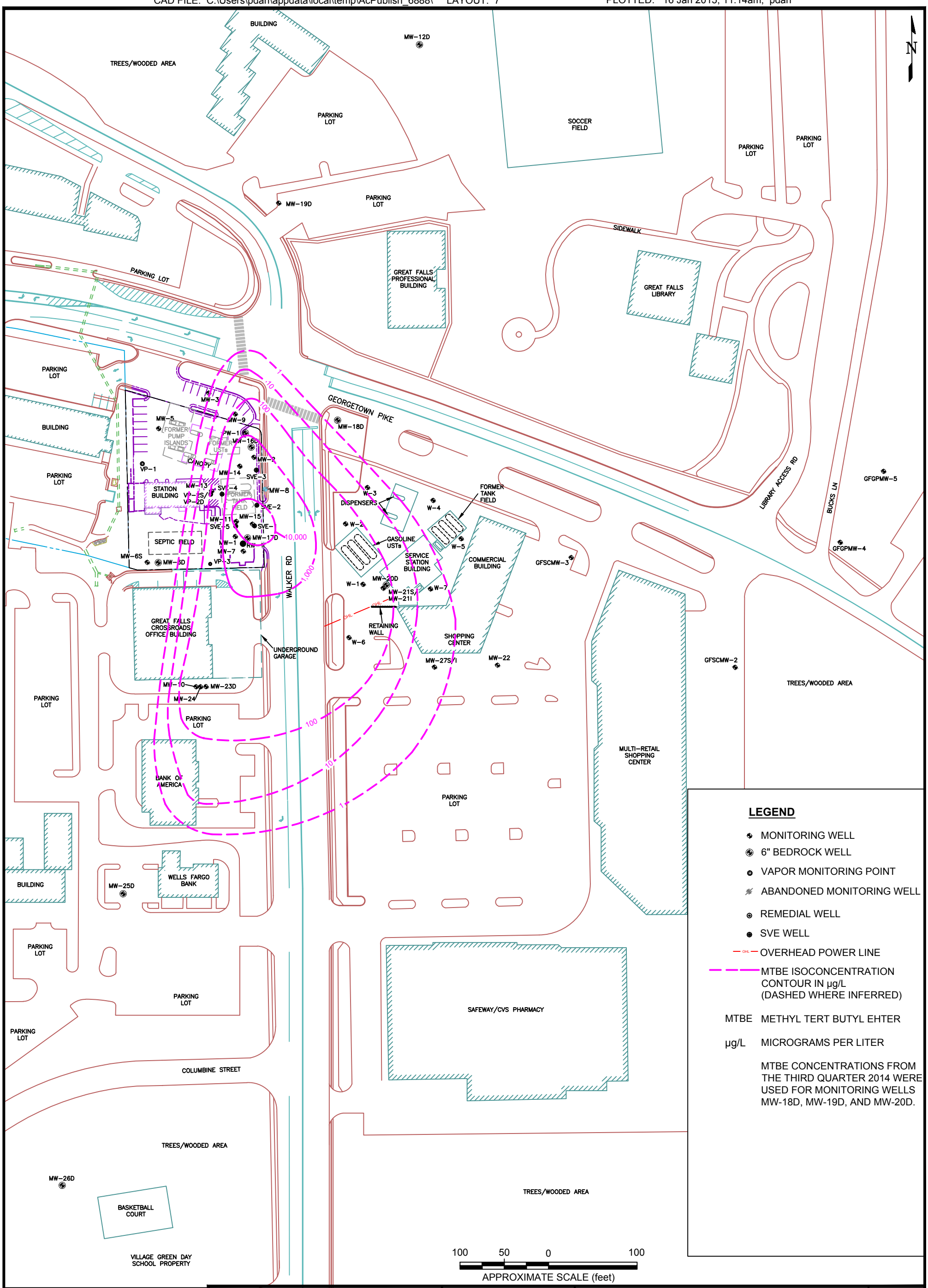

LEGEND

- MONITORING WELL
- 6" BEDROCK WELL
- VAPOR MONITORING POINT
- ABANDONED MONITORING WELL
- REMEDIAL WELL
- SVE WELL
- OHL — OVERHEAD POWER LINE
- MTBE ISOCONCENTRATION CONTOUR IN µg/L (DASHED WHERE INFERRED)

MTBE METHYL TERT BUTYL EHTER

µg/L MICROGRAMS PER LITER

MTBE CONCENTRATIONS FROM THE THIRD QUARTER 2014 WERE USED FOR MONITORING WELLS MW-18D, MW-19D, AND MW-20D.

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PROJECT NO.	20153508
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MTBE ISOCONCENTRATION MAP DEEP MONITORING WELLS DECEMBER 9, 2014

INACTIVE FAIRFAX FACILITY #26140
9901 GEORGETOWN PIKE
GREAT FALLS, VIRGINIA

FIGURE
8

TABLES

TABLE 1
Monitoring Well Construction Details
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

Monitoring Well	Installation Date	Well Type	Well Diameter (inch)	Top of Casing Elevation (feet)	Riser / Casing Length (feet)	Screen Length / Open Interval (feet)	Total Borehole Depth (feet below grade)	Screen / Open Interval (feet below grade)	Comments
MW-1	7/20/2009	Monitoring	2	328.99	20	17	37	20-37	
MW-2	7/21/2009	Monitoring	2	332.05	25	15	42	25-40	
MW-3	7/22/2009	Monitoring	2	333.98	25	10	35	25-35	
MW-5	7/22/2009	Monitoring	2	332.35	30	10	42	30-40	
MW-6S	9/11/2009	Monitoring	4	321.85	20	15	35	20-35	
MW-6D	9/11/2009	Deep Monitoring	6	323.09	70	50	120	70-120	Open borehole after 70 feet
MW-7	10/16/2009	Monitoring	2	327.96	15	25	40	15-40	
MW-8	10/8/2009	Monitoring	2	330.54	25	20	45	25-45	Abandoned 9/19/2013
MW-9	10/9/2009	Monitoring	2	333.46	25	20	45	25-45	
MW-10	10/12/2009	Monitoring	2	324.17	10	30	40	10-40	
MW-11	10/14/2009	Monitoring	2	329.64	10	30	40	10-40	
MW-12D	1/11/2011	Deep Monitoring	6	326.43	100	60	160	100-160	Open borehole after 100 feet
MW-13	8/18/2011	Monitoring	4	332.00	25	20	45	25-45	
MW-14	8/18/2011	Monitoring	4	331.81	25	20	45	25-45	
MW-15	8/18/2011	Monitoring	4	328.95	25	20	45	25-45	
MW-16D	11/22/2011	Monitoring	6	332.90	85	25	110	85-110	Open borehole after 85 feet.
MW-17D	4/9/2013	Deep Monitoring	6	328.99	68	82	150	68-150	Converted to CMT on 4/9/2014.

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TABLE 1
Monitoring Well Construction Details
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

Monitoring Well	Installation Date	Well Type	Well Diameter (inch)	Top of Casing Elevation (feet)	Riser / Casing Length (feet)	Screen Length / Open Interval (feet)	Total Borehole Depth (feet below grade)	Screen / Open Interval (feet below grade)	Comments
MW-17D (CMT-1)	4/9/2014	Discrete Interval Monitoring	0.4	328.84	71	6	150	71-77	The Continuous Multichannel Tubing (CMT) screens are approximately six inches in length. The Screen Length / Open Interval and Screen / Open Interval columns refer to the sand pack installed in the borehole annulus surrounding the CMT port.
MW-17D (CMT-2)	4/9/2014	Discrete Interval Monitoring	0.4	328.84	79	4	150	79-83	
MW-17D (CMT-3)	4/9/2014	Discrete Interval Monitoring	0.4	328.84	86	4	150	86-90	
MW-17D (CMT-4)	4/9/2014	Discrete Interval Monitoring	0.4	328.84	91	2	150	91-93	
MW-17D (CMT-5)	4/9/2014	Discrete Interval Monitoring	0.4	328.84	114	6	150	114-120	
MW-17D (CMT-6)	4/9/2014	Discrete Interval Monitoring	0.4	328.84	126	6	150	126-132	
MW-17D (CMT-7)	4/9/2014	Discrete Interval Monitoring	0.38	328.84	146	4	150	146-150	
MW-18D	11/22/2011	Deep Monitoring	6	334.88	97	58	136	92-150	Open borehole after 92 feet. Borehole blocked by rock at 101 feet during testing on 4/30/13.
MW-19D	3/8/2014	Deep Monitoring	2	341.91	80	20	100	80-100	
MW-20D	4/7/2014	Deep Monitoring	6	329.80	70	72	142	70-142	Open borehole after 70 feet.
MW-21I	4/1/2014	Monitoring	2	329.71	56	10	66	56-66	Part of a nested well pair including MW-21S
MW-21S	4/1/2014	Monitoring	2	329.69	26	20	46	26-46	Part of a nested well pair including MW-21I
MW-22	4/3/2014	Monitoring	2	320.97	20	20	40	20-40	
MW-23D	5/1/2014	Deep Monitoring	2	324.81	90	10	100	90-100	
MW-24	4/3/2014	Monitoring	2	324.49	50	10	60	50-60	
MW-25D	8/17/2014	Deep Monitoring	6	323.92	65	36	101	36-101	Open borehole after 65 feet.
MW-26D	8/21/2014	Deep Monitoring	6	295.13	57	47	104	57-104	Open borehole after 57 feet.
MW-27I	8/21/2014	Monitoring	2	323.35	55	10	65	55-65	Part of a nested well pair including MW-27S

TABLE 1
Monitoring Well Construction Details
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

Monitoring Well	Installation Date	Well Type	Well Diameter (inch)	Top of Casing Elevation (feet)	Riser / Casing Length (feet)	Screen Length / Open Interval (feet)	Total Borehole Depth (feet below grade)	Screen / Open Interval (feet below grade)	Comments
MW-27S	8/21/2014	Monitoring	2	323.40	20	20	40	20-40	Part of a nested well pair including MW-27I
PW-1	Unknown	Deep Monitoring	6	334.54	55	20	75	55 - 75	Former potable well. Partially abandoned in November 2011. Original well depth was approximately 116 feet.
RW-1	3/13/2014	Recovery	6	328.31	21	70	91	21-91	Total drilled depth was 100 feet; borehole collapsed to 91 feet during the installation of screen and casing.
SVE-1	2/17/2014	Soil Vapor Extraction	4	NSVD	15	20	35	15-35	
SVE-2	2/18/2014	Soil Vapor Extraction	4	329.64	25	20	45	25-45	Designed to serve as a SVE well and monitoring well to replace the abandoned MW-8
SVE-3	2/19/2014	Soil Vapor Extraction	4	NSVD	15	20	35	15-35	
SVE-4	2/19/2014	Soil Vapor Extraction	4	NSVD	15	20	35	15-35	
SVE-5	2/18/2014	Soil Vapor Extraction	4	NSVD	15	20	35	15-35	

Notes:
NSVD - Not Surveyed to Vertical Datum
CMT - Continuous Multichannel Tubing

Table 2

Monitoring Well Gauging Data Summary - Fourth Quarter 2014
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

November 6 and December 9, 2014

		Gauging Data					
Well ID	**Date**	**Top of Casing Elevation**	**Depth to Water (feet)**	**Depth to Hydro-carbon (feet)**	**Hydro-carbon Thickness (feet)**	**Corrected GW Elevation (feet)**	**Comments**
MW-1	11/6/2014	328.99	DRY	ND	ND	DRY	
	12/9/2014	328.99	DRY	ND	ND	DRY	
MW-2	11/6/2014	332.05	DRY	ND	ND	DRY	
	12/9/2014	332.05	40.02	ND	ND	292.03	
MW-3	11/6/2014	332.35	DRY	ND	ND	DRY	
	12/9/2014	332.35	DRY	ND	ND	DRY	
MW-5	11/6/2014	332.35	34.72	ND	ND	297.63	
	12/9/2014	332.35	35.19	ND	ND	297.16	
MW-6S	11/6/2014	321.85	32.86	ND	ND	288.99	
	12/9/2014	321.85	26.42	ND	ND	295.43	
MW-6D	11/6/2014	323.09	36.19	ND	ND	286.90	
	12/9/2014	323.09	29.34	ND	ND	293.75	
MW-7	11/6/2014	327.96	DRY	ND	ND	DRY	
	12/9/2014	327.96	DRY	ND	ND	DRY	
SVE-2	11/6/2014	329.69	32.21	ND	ND	297.48	
	12/9/2014	329.69	35.25	ND	ND	294.44	
MW-9	11/6/2014	333.46	39.62	ND	ND	293.84	
	12/9/2014	333.46	40.12	ND	ND	293.34	
MW-10	11/6/2014	324.17	32.47	ND	ND	291.70	
	12/9/2014	324.17	32.88	ND	ND	291.29	
MW-11	11/6/2014	329.64	DRY	ND	ND	DRY	
	12/9/2014	329.64	DRY	ND	ND	DRY	
MW-12D	11/6/2014	326.43	31.66	ND	ND	294.77	
	12/9/2014	326.43	NM	NM	NM	NM	
MW-13	11/6/2014	332.00	37.34	ND	ND	294.66	
	12/9/2014	332.00	30.16	ND	ND	301.84	
MW-14	11/6/2014	331.82	25.10	ND	ND	306.72	
	12/9/2014	331.82	33.27	ND	ND	298.55	
MW-15	11/6/2014	328.95	37.56	ND	ND	291.39	
	12/9/2014	328.95	38.14	ND	ND	290.81	
MW-16D	11/6/2014	332.90	40.51	ND	ND	292.39	
	12/9/2014	332.90	40.36	ND	ND	292.54	
MW-17D(75)	11/6/2014	328.84	49.56	ND	ND	279.28	
	12/8/2014	328.84	49.65	ND	ND	279.19	
MW-17D(81)	11/6/2014	328.84	49.23	ND	ND	279.61	
	12/8/2014	328.84	50.40	ND	ND	278.44	
MW-17D(87.75)	11/6/2014	328.84	49.89	ND	ND	278.95	
	12/8/2014	328.84	34.62	ND	ND	294.22	
MW-17D(92)	11/6/2014	328.84	49.95	ND	ND	278.89	
	12/8/2014	328.84	37.26	ND	ND	291.58	
MW-17D(117)	11/6/2014	328.84	50.32	ND	ND	278.52	
	12/8/2014	328.84	38.28	ND	ND	290.56	
MW-17D(129.75)	11/6/2014	328.84	50.49	ND	ND	278.35	
	12/8/2014	328.84	38.10	ND	ND	290.74	
MW-17D(147)	11/6/2014	328.84	50.71	ND	ND	278.13	
	12/8/2014	328.84	37.99	ND	ND	290.85	
MW-18D	11/6/2014	334.88	41.75	ND	ND	293.13	
	12/9/2014	334.88	42.23	ND	ND	292.65	
MW-19D	11/6/2014	341.91	47.85	ND	ND	294.06	
	12/9/2014	341.91	47.56	ND	ND	294.35	

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Table 2

Monitoring Well Gauging Data Summary - Fourth Quarter 2014
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

November 6 and December 9, 2014

		Gauging Data					
Well ID	**Date**	**Top of Casing Elevation**	**Depth to Water (feet)**	**Depth to Hydro-carbon (feet)**	**Hydro-carbon Thickness (feet)**	**Corrected GW Elevation (feet)**	**Comments**
MW-20D(73-83)	11/6/2014	329.80	36.64	ND	ND	293.16	
	12/9/2014	329.80	36.52	ND	ND	293.28	
MW-20D(90-100)	11/6/2014	329.80	37.34	ND	ND	292.46	
	12/9/2014	329.80	37.24	ND	ND	292.56	
MW-20D(132-142)	11/6/2014	329.80	37.59	ND	ND	292.21	
	12/9/2014	329.80	38.19	ND	ND	291.61	
MW-21S	11/6/2014	329.69	36.57	ND	ND	293.12	
	12/9/2014	329.69	37.28	ND	ND	292.41	
MW-21I	11/6/2014	329.71	36.68	ND	ND	293.03	
	12/9/2014	329.71	37.38	ND	ND	292.33	
MW-22	11/6/2014	320.97	29.73	ND	ND	291.24	
	12/9/2014	320.97	30.54	ND	ND	290.43	
MW-23D	11/6/2014	324.81	34.33	ND	ND	290.48	
	12/9/2014	324.81	34.76	ND	ND	290.05	
MW-24	11/6/2014	324.49	33.26	ND	ND	291.23	
	12/9/2014	324.49	33.93	ND	ND	290.56	
MW-25D	11/6/2014	323.92	25.22	ND	ND	298.70	
	9/22/2014	323.92	25.04	ND	ND	298.88	
MW-26D	11/6/2014	295.13	3.01	ND	ND	292.12	
	12/9/2014	295.13	2.46	ND	ND	292.67	
MW-27S	11/6/2014	323.40	31.58	ND	ND	291.82	
	12/9/2014	323.40	32.29	ND	ND	291.11	
MW-27I	11/6/2014	323.35	31.48	ND	ND	291.87	
	12/9/2014	323.35	32.32	ND	ND	291.03	
PW-1	11/6/2014	334.54	41.78	ND	ND	292.76	
	12/9/2014	334.54	42.18	ND	ND	292.36	
W-1	11/6/2014	328.53	35.20	ND	ND	293.33	
	12/9/2014	328.53	36.29	ND	ND	292.24	
W-2	11/6/2014	329.47	36.03	ND	ND	293.44	
	12/9/2014	329.47	36.72	ND	ND	292.75	
W-3	11/6/2014	330.14	36.62	ND	ND	293.52	
	12/9/2014	330.14	37.11	ND	ND	293.03	
W-4	11/6/2014	327.67	34.39	ND	ND	293.28	
	12/9/2014	327.67	35.98	ND	ND	291.69	
W-5	11/6/2014	327.81	34.91	ND	ND	292.90	
	12/9/2014	327.81	37.19	ND	ND	290.62	
W-6	11/6/2014	325.21	31.82	ND	ND	293.39	
	12/9/2014	325.21	30.37	ND	ND	294.84	
W-7	11/6/2014	329.77	37.52	ND	ND	292.25	
	12/9/2014	329.77	37.70	ND	ND	292.07	
RW-1	11/6/2014	328.31	53.85	ND	ND	274.46	
	12/9/2014	328.31	58.61	ND	ND	269.70	
GFSCMW-2	11/6/2014	316.79	30.05	ND	ND	286.74	
	12/9/2014	316.79	NM	ND	ND	NM	
GFSCMW-3	11/6/2014	319.78	29.46	ND	ND	290.32	
	12/9/2014	319.78	34.56	ND	ND	285.22	

Notes:
GW - Groundwater
ND - Not detected

Table 3

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-1	7/24/2009	100.00	30.45	ND	ND	69.55	13.3	<1.0	0.53	24	193000	NA	NA	NA	NA	Screened from 20-37'
	8/18/2009	328.99	NM	NM	NM	NM	ND(200)	ND(200)	ND(200)	ND(200)	138000	NA	NA	NA	NA	
	10/15/2009	328.99	31.88	ND	ND	297.11	ND(200)	ND(200)	ND(200)	ND(200)	139000	47000	4070	ND(1000)	2130	
	6/22/2010	328.99	28.65	ND	ND	300.34	ND(5)	ND(7)	ND(8)	ND(8)	13000	NA	NA	NA	NA	
	9/30/2010	328.99	31.11	ND	ND	297.88	ND(50)	ND(70)	ND(80)	110	240000	NA	NA	NA	NA	
	12/16/2010	328.99	30.93	ND	ND	298.06	ND(100)	ND(140)	ND(160)	ND(160)	220000	NA	NA	NA	NA	
	2/17/2011	328.99	31.46	ND	ND	297.53	ND(250)	ND(350)	ND(400)	ND(400)	190000	NA	NA	NA	NA	
	5/24/2011	328.99	30.24	ND	ND	298.75	ND(50)	ND(70)	ND(80)	ND(80)	140000	NA	NA	NA	NA	
	9/2/2011	328.99	32.92	ND	ND	296.07	ND(50)	ND(70)	ND(80)	ND(80)	160000	NA	NA	NA	NA	
	12/29/2011	328.99	30.99	ND	ND	298.00	ND(50)	ND(70)	ND(80)	ND(80)	160000	NA	NA	NA	NA	
	6/1/2012	328.99	31.47	ND	ND	297.52	ND(50)	ND(70)	ND(80)	ND(80)	140000	NA	NA	NA	NA	
	2/25/2013	328.99	32.84	ND	ND	296.15	ND(250)	ND(250)	ND(250)	ND(250)	120000	15000	3700	ND(250)	1700	
	6/6/2013	328.99	32.14	ND	ND	296.85	ND(50)	ND(70)	ND(80)	ND(80)	150000	NA	NA	NA	NA	
	12/19/2013	328.99	33.06	ND	ND	295.93	ND(250)	ND(250)	ND(250)	ND(250)	84000	6900	2200	ND(250)	1100	
	3/25/2014	328.99	31.04	ND	ND	297.95	ND(500)	ND(500)	ND(500)	ND(500)	71000	ND(8000)	1200	ND(500)	850	
	6/20/2014	328.99	29.43	ND	ND	299.56	ND(20)	ND(20)	ND(20)	ND(20)	20000	ND(400)	490	ND(20)	210	
	9/8/2014	328.99	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient volume to sample
	12/9/2014	328.99	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient volume to sample
Mann-Kendall Statistic							0	0	0	-9	-39	-9	-10	0	-10	

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1340 Charwood Road, Suite I , Hanover, MD

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-2	7/24/2009	102.90	33.19	ND	ND	69.71	70.2	8.0	1.0	131	107000	NA	NA	NA	NA	Screened from 25-40'
	8/18/2009	332.05	NM	NM	NM	NM	ND(100)	ND(100)	ND(100)	ND(100)	87100	NA	NA	NA	NA	
	10/15/2009	332.05	34.41	ND	ND	297.64	ND(200)	ND(200)	ND(200)	ND(200)	122000	ND(5000)	6130	ND(1000)	2420	
	7/1/2010	332.05	31.63	ND	ND	300.42	ND(100)	91.3	ND(100)	ND(100)	52400	NA	NA	NA	NA	
	9/30/2010	332.05	32.96	ND	ND	299.09	ND(25)	ND(35)	ND(40)	ND(40)	37000	NA	NA	NA	NA	
	12/16/2010	332.05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	Well inaccessible
	2/17/2011	332.05	34.15	ND	ND	297.90	ND(100)	ND(140)	ND(160)	ND(160)	140000	NA	NA	NA	NA	
	5/24/2011	332.05	32.92	ND	ND	299.13	ND(25)	ND(35)	ND(40)	ND(40)	54000	NA	NA	NA	NA	
	9/2/2011	332.05	35.53	ND	ND	296.52	ND(50)	ND(70)	ND(80)	ND(80)	160000	NA	NA	NA	NA	
	12/29/2011	332.05	33.64	ND	ND	298.41	ND(25)	ND(35)	ND(40)	ND(40)	49000	NA	NA	NA	NA	
	6/1/2012	332.05	34.16	ND	ND	297.89	ND(50)	ND(70)	ND(80)	ND(80)	100000	NA	NA	NA	NA	
	2/25/2013	332.05	35.47	ND	ND	296.58	ND(250)	ND(250)	ND(250)	ND(250)	71000	4600	1900	ND(250)	1100	
	6/6/2013	332.05	34.91	ND	ND	297.14	ND(3)	ND(4)	ND(4)	ND(4)	3500	NA	NA	NA	NA	
	12/19/2013	332.05	35.50	ND	ND	296.55	ND(130)	ND(130)	ND(130)	ND(130)	19000	6800	710	ND(130)	280	
	3/25/2014	332.05	33.30	ND	ND	298.75	ND(50)	ND(50)	ND(50)	ND(50)	7500	2500	310	ND(50)	110	
	6/20/2014	332.05	31.27	ND	ND	300.78	ND(1)	ND(1)	ND(1)	ND(1)	450	ND(20)	29	ND(1)	7	
	9/10/2014	332.05	33.74	ND	ND	298.31	ND(1)	ND(1)	ND(1)	ND(1)	860	ND(20)	38	ND(1)	15	
	12/9/2014	332.05	40.02	ND	ND	292.03	NS	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient volume to sample
Mann-Kendall Statistic							0	-11	0	0	-47	-4	-13	0	-13	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-3	7/24/2009	104.99	33.67	ND	ND	71.32	<0.50	<1.0	<1.0	ND	5.7	NA	NA	NA	NA	Screened from 25-35'
	8/18/2009	333.98	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	10/15/2009	333.98	34.51	ND	ND	299.47	NS	NS	NS	NS	NS	NS	NS	NS	NS	Insufficent volume to sample
	7/1/2010	333.98	32.39	ND	ND	301.59	ND(2)	ND(2)	ND(2)	ND(2)	1.9	NA	NA	NA	NA	
	9/30/2010	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/16/2010	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	2/17/2011	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	5/24/2011	333.98	33.63	ND	ND	300.35	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	2 J	NA	NA	NA	NA	
	9/2/2011	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/29/2011	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/1/2012	333.98	34.56	ND	ND	299.42	NS	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient volume to sample
	2/25/2013	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/6/2013	333.98	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/18/2013	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	3/24/2014	333.98	34.25	ND	ND	299.73	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/19/2014	333.98	32.09	ND	ND	301.89	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/4/2014	333.98	34.42	ND	ND	299.56	NS	NS	NS	NS	NS	NS	NS	NS	NS	Insufficent volume to sample
	12/9/2014	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient volume to sample
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-5	7/24/2009	103.43	30.72	ND	ND	72.71	<0.50	<1.0	<1.0	ND	1.3	NA	NA	NA	NA	Screened from 30-40'
	8/18/2009	332.35	NM	NM	NM	NM	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.48	NA	NA	NA	NA	
	10/15/2009	332.35	32.51	ND	ND	299.84	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	11.4	ND(25)	0.46	ND(5.0)	ND(5.0)	
	6/22/2010	332.35	29.40	ND	ND	302.95	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	9/30/2010	332.35	32.30	ND	ND	300.05	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1	NA	NA	NA	NA	
	12/16/2010	332.35	32.12	ND	ND	300.23	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	12	NA	NA	NA	NA	
	2/17/2011	332.35	32.31	ND	ND	300.04	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	2 J	NA	NA	NA	NA	
	5/24/2011	332.35	30.84	ND	ND	301.51	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.9 J	NA	NA	NA	NA	
	9/2/2011	332.35	33.39	ND	ND	298.96	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.9 J	NA	NA	NA	NA	
	12/29/2011	332.35	31.36	ND	ND	300.99	ND(0.5)	1 J	ND(0.8)	1 J	7	NA	NA	NA	NA	
	6/1/2012	332.35	31.93	ND	ND	300.42	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.8 J	NA	NA	NA	NA	
	2/25/2013	332.35	33.28	ND	ND	299.07	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	6/6/2013	332.35	32.55	ND	ND	299.80	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	12/18/2013	332.35	33.92	ND	ND	298.43	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	3/24/2014	332.35	31.32	ND	ND	301.03	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/19/2014	332.35	29.30	ND	ND	303.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/2/2014	332.35	31.37	ND	ND	300.98	ND(1)	ND(1)	ND(1)	ND(1)	2	ND(20)	ND(1)	ND(1)	ND(1)	
	12/9/2014	332.35	35.19	ND	ND	297.16	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							0	2	0	2	-28	0	-3	0	0	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-6S	9/24/2009	NM	NM	NM	NM	NM	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	2.8	ND(25)	2.1	ND(5.0)	ND(5.0)	Screened from 20-35'
	10/15/2009	321.85	23.35	ND	ND	298.50	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	2.8	ND(25)	1.3	ND(5.0)	ND(5.0)	
	6/22/2010	321.85	20.22	ND	ND	301.63	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	2	NA	NA	NA	NA	
	9/30/2010	321.85	23.00	ND	ND	298.85	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.9	NA	NA	NA	NA	
	12/16/2010	321.85	22.82	ND	ND	299.03	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1	NA	NA	NA	NA	
	2/17/2011	321.85	23.02	ND	ND	298.83	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	5/24/2011	321.85	21.66	ND	ND	300.19	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	9/2/2011	321.85	24.04	ND	ND	297.81	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	12/29/2011	321.85	22.15	ND	ND	299.70	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	2 J	NA	NA	NA	NA	
	6/1/2012	321.85	22.72	ND	ND	299.13	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.8 J	NA	NA	NA	NA	
	2/25/2013	321.85	24.03	ND	ND	297.82	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	6/6/2013	321.85	23.49	ND	ND	298.36	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	12/17/2013	321.85	24.63	ND	ND	297.22	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	3/24/2014	321.85	22.19	ND	ND	299.66	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/19/2014	321.85	20.01	ND	ND	301.84	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/3/2014	321.85	22.41	ND	ND	299.44	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
	12/9/2014	321.85	26.42	ND	ND	295.43	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							0	0	0	0	-47	0	-3	0	0	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-7	10/15/2009	327.96	31.21	ND	ND	296.75	2.7	ND(10)	ND(10)	ND(10)	10600	2650	232	ND(50)	217	Screened from 15-40'
	6/22/2010	327.96	28.00	ND	ND	299.96	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	87	NA	NA	NA	NA	
	9/30/2010	327.96	30.24	ND	ND	297.72	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	12/16/2010	327.96	30.15	ND	ND	297.81	2	ND(1)	ND(2)	ND(2)	2100	NA	NA	NA	NA	
	2/17/2011	327.96	30.75	ND	ND	297.21	ND(10)	ND(14)	ND(16)	ND(16)	9700	NA	NA	NA	NA	
	5/24/2011	327.96	29.56	ND	ND	298.40	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	130	NA	NA	NA	NA	
	9/2/2011	327.96	32.21	ND	ND	295.75	11 J	ND(14)	ND(16)	ND(16)	16000	NA	NA	NA	NA	
	12/29/2011	327.96	30.24	ND	ND	297.72	ND(1)	ND(1)	ND(2)	ND(2)	1600	NA	NA	NA	NA	
	6/1/2012	327.96	30.74	ND	ND	297.22	ND(5)	ND(7)	ND(8)	ND(8)	6700	NA	NA	NA	NA	
	2/25/2013	327.96	32.23	ND	ND	295.73	ND(250)	ND(250)	ND(250)	ND(250)	61000	14000	1700	ND(250)	940	
	6/6/2013	327.96	31.49	ND	ND	296.47	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	950	NA	NA	NA	NA	
	12/18/2013	327.96	32.79	ND	ND	295.17	ND(250)	ND(250)	ND(250)	ND(250)	140000	29000	3000	ND(250)	1600	
	3/28/2014	327.96	30.35	ND	ND	297.61	ND(1)	ND(1)	ND(1)	ND(1)	430	ND(20)	13	ND(1)	6	
	6/20/2014	327.96	28.19	ND	ND	299.77	ND(1)	ND(1)	ND(1)	ND(1)	72	35	9	ND(1)	ND(1)	
	9/8/2014	327.96	37.53	ND	ND	290.43	NS	NS	NS	NS	NS	NS	NS	NS	NS	Insufficent volume to sample
	12/9/2014	327.96	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient volume to sample
Mann-Kendall Statistic							-20	0	0	0	5	0	0	0	0	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-8	10/15/2009	330.54	34.01	ND	ND	296.53	ND(500)	ND(500)	ND(500)	ND(500)	226000	30800	6250	ND(2500)	3080	Screened from 25-45'
	6/22/2010	330.54	30.91	ND	ND	299.63	ND(5)	ND(7)	ND(8)	ND(8)	15000	NA	NA	NA	NA	
	9/30/2010	330.54	32.97	ND	ND	297.57	11	ND(14)	ND(16)	ND(16)	44000	NA	NA	NA	NA	
	12/16/2010	330.54	32.85	ND	ND	297.69	ND(25)	ND(35)	ND(40)	ND(40)	49000	NA	NA	NA	NA	
	2/17/2011	330.54	33.62	ND	ND	296.92	ND(25)	ND(35)	ND(40)	ND(40)	41000	NA	NA	NA	NA	
	5/24/2011	330.54	32.44	ND	ND	298.10	ND(5)	ND(7)	ND(8)	ND(8)	8400	NA	NA	NA	NA	
	9/2/2011	330.54	35.18	ND	ND	295.36	ND(10)	ND(14)	ND(16)	ND(16)	15000	NA	NA	NA	NA	
	12/29/2011	330.54	33.23	ND	ND	297.31	ND(3)	ND(4)	ND(4)	ND(4)	1800	NA	NA	NA	NA	
	6/1/2012	330.54	33.73	ND	ND	296.81	3 J	ND(1)	ND(2)	4 J	1200	NA	NA	NA	NA	
	2/25/2013	330.54	35.27	ND	ND	295.27	ND(5)	ND(5)	ND(5)	ND(5)	180	280	220	ND(5)	ND(5)	
	6/6/2013	330.54	34.49	ND	ND	296.05	0.7 J	ND(0.7)	ND(0.8)	ND(0.8)	160	NA	NA	NA	NA	
	9/19/2013	330.54	36.01	ND	ND	294.53	ND(5)	ND(5)	ND(5)	ND(5)	170	NA	NA	NA	NA	Abandoned (9/19/2013)
Mann-Kendall Statistic							4	0	0	5	-53	N/A	N/A	N/A	N/A	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
SVE-2	3/25/2014	329.69	31.32	ND	ND	298.37	ND(1)	ND(1)	ND(1)	ND(1)	600	76	44	ND(1)	11	Screened from 25-45'
	6/19/2014	329.69	27.45	ND	ND	302.24	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/10/2014	329.69	30.79	ND	ND	298.90	ND(1)	ND(1)	ND(1)	ND(1)	8	ND(20)	3	ND(1)	ND(1)	
	12/9/2014	329.69	35.25	ND	ND	294.44	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-9	10/15/2009	333.46	35.60	ND	ND	297.86	ND(1.0)	0.33	ND(1.0)	0.38	64.7	ND(25)	125	ND(5.0)	2.9	Screened from 25-45'
	6/22/2010	333.46	32.32	ND	ND	301.14	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	22	NA	NA	NA	NA	
	9/30/2010	333.46	34.85	ND	ND	298.61	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	52	NA	NA	NA	NA	
	12/16/2010	333.46	34.73	ND	ND	298.73	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	81	NA	NA	NA	NA	
	2/17/2011	333.46	35.28	ND	ND	298.18	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	48	NA	NA	NA	NA	
	5/24/2011	333.46	34.04	ND	ND	299.42	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	26	NA	NA	NA	NA	
	9/2/2011	333.46	36.86	ND	ND	296.60	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	80	NA	NA	NA	NA	
	12/29/2011	333.46	34.68	ND	ND	298.78	ND(0.5)	2 J	ND(0.8)	1 J	58	NA	NA	NA	NA	
	6/1/2012	333.46	35.17	ND	ND	298.29	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	190	NA	NA	NA	NA	
	2/25/2013	333.46	36.65	ND	ND	296.81	ND(5)	ND(5)	ND(5)	ND(5)	55	ND(80)	17	ND(5)	ND(5)	
	6/6/2013	333.46	35.98	ND	ND	297.48	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	20	NA	NA	NA	NA	
	12/18/2013	333.46	37.33	ND	ND	296.13	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	3/24/2014	333.46	34.67	ND	ND	298.79	ND(5)	ND(5)	ND(5)	ND(5)	12	ND(80)	6	ND(5)	ND(5)	
	6/19/2014	333.46	32.56	ND	ND	300.90	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/8/2014	333.46	35.91	ND	ND	297.55	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/9/2014	333.46	40.12	ND	ND	293.34	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							0	-9	0	-9	-22	0	0	0	0	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
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)	10.3	ND(25)	ND(5.0)	ND(5.0)	ND(5.0)	Screened from 10-40'
	6/22/2010	324.17	25.80	ND	ND	298.37	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	4	NA	NA	NA	NA	
	12/16/2010	324.17	27.72	ND	ND	296.45	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	10	NA	NA	NA	NA	
	2/17/2011	324.17	28.05	ND	ND	296.12	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	7	NA	NA	NA	NA	
	5/24/2011	324.17	27.04	ND	ND	297.13	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	3 J	NA	NA	NA	NA	
	9/2/2011	324.17	29.60	ND	ND	294.57	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	8	NA	NA	NA	NA	
	12/29/2011	324.17	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	Well inaccessible
	6/1/2012	324.17	28.17	ND	ND	296.00	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	4 J	NA	NA	NA	NA	
	2/25/2013	324.17	29.45	ND	ND	294.72	ND(5)	ND(5)	ND(5)	ND(5)	7	ND(80)	ND(5)	ND(5)	ND(5)	
	6/6/2013	324.17	28.87	ND	ND	295.30	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	12/18/2013	324.17	30.04	ND	ND	294.13	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	3/24/2014	324.17	27.24	ND	ND	296.93	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/18/2014	324.17	25.67	ND	ND	298.50	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
	9/3/2014	324.17	28.02	ND	ND	296.15	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
	12/9/2014	324.17	32.88	ND	ND	291.29	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							0	0	0	0	-24	0	0	0	0	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-11	10/16/2009	NM	NM	NM	NM	NM	15.3	ND(10)	ND(10)	10.9	38400	23300	1290	ND(50)	464	Screened from 10-40'
	6/22/2010	329.64	29.00	ND	ND	300.64	ND(50)	ND(70)	ND(80)	ND(80)	170000	NA	NA	NA	NA	
	9/30/2010	329.64	31.42	ND	ND	298.22	ND(50)	ND(70)	ND(80)	ND(80)	130000	NA	NA	NA	NA	
	12/16/2010	329.64	31.22	ND	ND	298.42	ND(25)	ND(35)	ND(40)	ND(40)	41000	NA	NA	NA	NA	
	2/17/2011	329.64	31.81	ND	ND	297.83	ND(10)	ND(14)	ND(16)	ND(16)	23000	NA	NA	NA	NA	
	5/24/2011	329.64	30.56	ND	ND	299.08	ND(13)	ND(18)	ND(20)	ND(20)	16000	NA	NA	NA	NA	
	9/2/2011	329.64	33.22	ND	ND	296.42	4 J	ND(4)	ND(4)	ND(4)	7400	NA	NA	NA	NA	
	12/29/2011	329.64	31.29	ND	ND	298.35	ND(10)	ND(14)	ND(16)	ND(16)	9000	NA	NA	NA	NA	
	6/1/2012	329.64	31.77	ND	ND	297.87	7 J	21 J	ND(8)	34 J	4200	NA	NA	NA	NA	
	2/25/2013	329.64	33.03	ND	ND	296.61	ND(10)	ND(10)	ND(10)	ND(10)	1400	180	530	ND(10)	22	
	6/6/2013	329.64	32.46	ND	ND	297.18	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	770	NA	NA	NA	NA	
	12/18/2013	329.64	33.91	ND	ND	295.73	ND(5)	ND(5)	ND(5)	7	140	ND(80)	130	ND(5)	ND(5)	
	3/24/2014	329.64	31.19	ND	ND	298.45	ND(5)	ND(5)	ND(5)	ND(5)	41	ND(80)	25	ND(5)	ND(5)	
	6/20/2014	329.64	28.93	ND	ND	300.71	ND(1)	ND(1)	ND(1)	ND(1)	27	ND(20)	6	ND(1)	ND(1)	
	9/10/2014	329.64	30.90	ND	ND	298.74	ND(1)	ND(1)	ND(1)	ND(1)	26	ND(20)	13	ND(1)	ND(1)	
	12/9/2014	329.64	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							-15	2	0	-5	-97	0	0	0	0	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-13	9/2/2011	332.00	34.37	ND	ND	297.63	5	ND(0.7)	ND(0.8)	5	6800	NA	NA	NA	NA	Screened from 25-45'
	12/29/2011	332.00	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	Well inaccessible
	6/1/2012	332.00	32.88	ND	ND	299.12	ND(5)	ND(7)	ND(8)	ND(8)	5700	NA	NA	NA	NA	
	2/25/2013	332.00	33.80	ND	ND	298.20	ND(25)	ND(25)	ND(25)	ND(25)	5300	ND(400)	150	ND(25)	80	
	6/6/2013	332.00	33.33	ND	ND	298.67	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1300	NA	NA	NA	NA	
	12/19/2013	332.00	34.43	ND	ND	297.57	ND(5)	ND(5)	ND(5)	ND(5)	1100	ND(80)	43	ND(5)	18	
	3/24/2014	332.00	32.29	ND	ND	299.71	ND(5)	ND(5)	ND(5)	ND(5)	21	ND(80)	ND(5)	ND(5)	ND(5)	
	6/19/2014	332.00	30.07	ND	ND	301.93	ND(1)	ND(1)	ND(1)	ND(1)	3	ND(20)	ND(1)	ND(1)	ND(1)	
	9/10/2014	332.00	32.95	ND	ND	299.05	ND(1)	ND(1)	ND(1)	ND(1)	7	ND(20)	ND(1)	ND(1)	ND(1)	
	12/9/2014	332.00	30.16	ND	ND	301.84	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							-6	0	0	-6	-21	0	0	0	0	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-14	9/2/2011	331.81	35.02	ND	ND	296.79	54	ND(4)	ND(4)	55	170000	NA	NA	NA	NA	Screened from 25-45'
	12/29/2011	331.81	33.36	ND	ND	298.45	ND(50)	ND(70)	ND(80)	ND(80)	99000	NA	NA	NA	NA	
	6/1/2012	331.81	33.90	ND	ND	297.91	ND(50)	ND(70)	ND(80)	ND(80)	91000	NA	NA	NA	NA	
	2/25/2013	331.81	35.07	ND	ND	296.74	ND(50)	ND(50)	ND(50)	ND(50)	29000	2500	1100	ND(50)	450	
	6/6/2013	331.81	34.35	ND	ND	297.46	ND(1)	ND(1)	ND(2)	ND(2)	3600	NA	NA	NA	NA	
	12/19/2013	331.81	35.15	ND	ND	296.66	ND(5)	ND(5)	ND(5)	ND(5)	33	ND(80)	11	ND(5)	ND(5)	
	3/24/2014	331.82	32.91	ND	ND	298.91	ND(5)	ND(5)	ND(5)	ND(5)	14	ND(80)	ND(5)	ND(5)	ND(5)	
	6/19/2014	331.82	27.27	ND	ND	304.55	ND(1)	ND(1)	ND(1)	ND(1)	62	ND(20)	14	ND(1)	2	
	9/10/2014	331.82	24.65	ND	ND	307.17	ND(1)	ND(1)	ND(1)	ND(1)	190	ND(20)	5	ND(1)	3	
	12/9/2014	331.82	33.27	ND	ND	298.55	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							-8	0	0	-8	-26	0	0	0	0	

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1340 Charwood Road, Suite I , Hanover, MD

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-15	9/2/2011	328.95	33.06	ND	ND	295.89	ND(0.5)	ND(0.7)	ND(0.8)	1 J	21000	NA	NA	NA	NA	Screened from 25-45'
	12/29/2011	328.95	31.10	ND	ND	297.85	ND(1)	ND(1)	ND(2)	ND(2)	1100	NA	NA	NA	NA	
	6/1/2012	328.95	31.64	ND	ND	297.31	ND(10)	ND(14)	ND(16)	ND(16)	14000	NA	NA	NA	NA	
	2/25/2013	328.95	33.10	ND	ND	295.85	ND(10)	ND(10)	ND(10)	ND(10)	1800	300	140	ND(10)	28	
	6/6/2013	328.95	32.32	ND	ND	296.63	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	120	NA	NA	NA	NA	
	12/18/2013	328.95	33.86	ND	ND	295.09	ND(10)	ND(10)	ND(10)	14	1700	260	210	ND(10)	27	
	3/25/2014	328.95	30.90	ND	ND	298.05	ND(5)	ND(5)	ND(5)	ND(5)	350	ND(80)	50	ND(5)	5	
	6/20/2014	328.95	28.74	ND	ND	300.21	ND(1)	ND(1)	ND(1)	ND(1)	42	ND(20)	17	ND(1)	ND(1)	
	9/10/2014	328.95	31.49	ND	ND	297.46	ND(1)	ND(1)	ND(1)	1	530	110	150	ND(1)	12	
	12/10/2014	328.95	38.19	ND	ND	290.76	ND(2)	ND(2)	ND(2)	5	2100	750	370	ND(2)	42	
Mann-Kendall Statistic							0	0	0	9	-15	-1	1	0	-1	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-21S	4/11/2014	329.69	33.65	ND	ND	296.04	ND(10)	ND(10)	ND(10)	ND(10)	7500	6200	79	ND(10)	78	Screened from 26-46'
	6/18/2014	329.69	31.42	ND	ND	298.27	ND(1)	ND(1)	ND(1)	ND(1)	53	ND(20)	1	ND(1)	ND(1)	
	9/16/2014	329.69	34.26	ND	ND	295.43	ND(1)	ND(1)	ND(1)	ND(1)	130	31	4	ND(1)	1	
	12/10/2014	329.69	37.30	ND	ND	292.39	ND(1)	ND(1)	ND(1)	ND(1)	780	320	20	ND(1)	8	
Mann-Kendall Statistic							0	0	0	0	0	0	0	0	0	

Kleinfelder
1340 Charwood Road, Suite I , Hanover, MD

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-21I	4/11/2014	329.71	33.71	ND	ND	296.00	ND(2)	ND(2)	ND(2)	ND(2)	2500	1700	31	ND(2)	28	Screened from 56-66'
	6/18/2014	329.71	31.52	ND	ND	298.19	ND(1)	ND(1)	ND(1)	ND(1)	1700	910	26	ND(1)	18	
	9/16/2014	329.71	34.35	ND	ND	295.36	ND(1)	ND(1)	ND(1)	ND(1)	2100	1500	29	ND(1)	26	
	12/10/2014	329.71	37.40	ND	ND	292.31	ND(1)	ND(1)	ND(1)	ND(1)	1900	1400	29	ND(1)	24	
Mann-Kendall Statistic							0	0	0	0	-2	-2	-1	0	-2	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-22	4/11/2014	320.97	28.55	ND	ND	292.42	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	Screened from 20-40'
	6/18/2014	320.97	25.75	ND	ND	295.22	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
	9/2/2014	320.97	27.48	ND	ND	293.49	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
	12/9/2014	320.97	30.54	ND	ND	290.43	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Kleinfelder
1340 Charwood Road, Suite I , Hanover, MD

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-24	4/11/2014	324.49	27.66	ND	ND	296.83	ND(1)	1	ND(1)	ND(1)	29	ND(20)	1	ND(1)	ND(1)	Screened from 50-60'
	6/18/2014	324.49	26.39	ND	ND	298.10	ND(1)	ND(1)	ND(1)	ND(1)	21	ND(20)	ND(1)	ND(1)	ND(1)	
	9/3/2014	324.49	29.30	ND	ND	295.19	ND(1)	ND(1)	ND(1)	ND(1)	21	ND(20)	ND(1)	ND(1)	ND(1)	
	12/9/2014	324.49	33.93	ND	ND	290.56	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-27S	8/26/2014	323.40	28.42	ND	ND	294.98	ND(1)	ND(1)	ND(1)	ND(1)	1	ND(20)	ND(1)	ND(1)	ND(1)	
	9/2/2014	323.40	28.88	ND	ND	294.52	ND(1)	ND(1)	ND(1)	ND(1)	1	ND(20)	ND(1)	ND(1)	ND(1)	
	12/9/2014	323.40	32.28	ND	ND	291.12	ND(1)	ND(1)	ND(1)	ND(1)	2	ND(20)	ND(1)	ND(1)	ND(1)	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-27I	8/26/2014	323.35	28.26	ND	ND	295.09	ND(1)	ND(1)	ND(1)	ND(1)	1	ND(20)	ND(1)	ND(1)	ND(1)	
	9/2/2014	323.35	27.69	ND	ND	295.66	ND(1)	ND(1)	ND(1)	ND(1)	1	ND(20)	ND(1)	ND(1)	ND(1)	
	12/9/2014	323.35	32.31	ND	ND	291.04	ND(1)	ND(1)	ND(1)	ND(1)	1	ND(20)	ND(1)	ND(1)	ND(1)	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
W-1	1/18/2003	328.53	33.83	ND	ND	294.70	ND(5)	ND(5)	ND(5)	ND(10)	13000	9100	81	ND(5)	240	Screened from 10-40'
	8/5/2008	328.53	34.81	ND	ND	293.72	9.6	ND(5.0)	ND(5.0)	ND(5.0)	5200	NA	NA	NA	NA	
	6/7/2013	328.53	34.52	ND	ND	294.01	ND(10)	ND(14)	ND(16)	ND(16)	26000	NA	NA	NA	NA	
	12/19/2013	328.53	36.11	ND	ND	292.42	ND(100)	ND(100)	ND(100)	ND(100)	13000	6900	150	ND(100)	130	
	3/25/2014	328.53	33.50	ND	ND	295.03	ND(25)	ND(25)	ND(25)	ND(25)	16000	15000	170	ND(25)	170	
	6/19/2014	328.53	29.91	ND	ND	298.62	ND(50)	ND(50)	ND(50)	ND(50)	15000	13000	130	ND(50)	140	
	9/3/2014	328.53	31.77	ND	ND	296.76	ND(20)	ND(20)	ND(20)	ND(20)	13000	8900	95	ND(20)	100	
	12/10/2014	328.53	36.07	ND	ND	292.46	ND(20)	ND(20)	ND(20)	ND(20)	18000	14000	170	ND(20)	170	
Mann-Kendall Statistic							-5	0	0	0	7	2	2	0	-2	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
W-2	1/18/2003	329.47	34.56	ND	ND	294.91	ND(5)	ND(5)	ND(5)	ND(10)	100	ND(100)	ND(5)	ND(5)	ND(5)	Screened from 10-40'
	8/5/2008	329.47	35.53	ND	ND	293.94	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	320	NA	NA	NA	NA	
	6/7/2013	329.47	35.30	ND	ND	294.17	ND(5)	ND(7)	ND(8)	ND(8)	14000	NA	NA	NA	NA	
	12/19/2013	329.47	36.82	ND	ND	292.65	ND(50)	ND(50)	ND(50)	ND(50)	7700	ND(800)	130	ND(50)	74	
	3/25/2014	329.47	34.26	ND	ND	295.21	ND(100)	ND(100)	ND(100)	ND(100)	7000	ND(1600)	130	ND(100)	ND(100)	
	6/19/2014	329.47	30.74	ND	ND	298.73	ND(10)	ND(10)	ND(10)	ND(10)	5000	ND(200)	39	ND(10)	38	
	9/3/2014	329.47	32.64	ND	ND	296.83	ND(10)	ND(10)	ND(10)	ND(10)	3900	ND(200)	21	ND(10)	27	
	12/10/2014	329.47	36.75	ND	ND	292.72	ND(2)	ND(2)	ND(2)	ND(2)	2100	ND(40)	25	ND(2)	18	
Mann-Kendall Statistic							0	0	0	0	-2	0	1	0	1	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
W-3	1/18/2003	330.14	35.88	ND	ND	294.26	ND(5)	ND(5)	ND(5)	ND(10)	ND(5)	ND(100)	ND(5)	ND(5)	ND(5)	Screened from 10-45'
	8/5/2008	330.14	35.92	ND	ND	294.22	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	22	NA	NA	NA	NA	
	6/7/2013	330.14	35.84	ND	ND	294.30	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	2 J	NA	NA	NA	NA	
	12/18/2013	330.14	37.22	ND	ND	292.92	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	3/24/2014	330.14	34.57	ND	ND	295.57	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/19/2014	330.14	31.08	ND	ND	299.06	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/3/2014	330.14	33.20	ND	ND	296.94	ND(1)	ND(1)	ND(1)	ND(1)	1	ND(20)	ND(1)	ND(1)	ND(1)	
	12/9/2014	330.14	37.11	ND	ND	293.03	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							0	0	0	0	-1	N/A	N/A	N/A	N/A	

Kleinfelder
1340 Charwood Road, Suite I , Hanover, MD

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
W-4	1/18/2003	327.67	34.12	ND	ND	293.55	71	920	850	8700	55	790	ND(5)	ND(5)	ND(5)	Screened from 10-40'
	8/5/2008	327.67	34.25	ND	ND	293.42	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	22	NA	NA	NA	NA	
	6/7/2013	327.67	34.08	ND	ND	293.59	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	12/18/2013	327.67	35.91	ND	ND	291.76	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	3/24/2014	327.67	33.24	ND	ND	294.43	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/19/2014	327.67	29.62	ND	ND	298.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/8/2014	327.67	31.54	ND	ND	296.13	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/9/2014	327.67	35.98	ND	ND	291.69	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							-3	-3	-3	-3	-5	N/A	N/A	N/A	N/A	

Kleinfelder
1340 Charwood Road, Suite I , Hanover, MD

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
W-5	8/5/2008	327.81	35.93	ND	ND	291.88	320	3000	3000	16000	ND(5.0)	NA	NA	NA	NA	Interval not available
	6/7/2013	327.81	35.30	ND	ND	292.51	180	96	270	11000	ND(0.5)	NA	NA	NA	NA	
	12/18/2013	327.81	37.46	ND	ND	290.35	290	160	860	6000	ND(13)	ND(200)	ND(13)	ND(13)	ND(13)	
	3/24/2014	327.81	34.75	ND	ND	293.06	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/19/2014	327.81	31.23	ND	ND	296.58	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/8/2014	327.81	31.98	ND	ND	295.83	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/9/2014	327.81	37.19	ND	ND	290.62	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Kleinfelder
1340 Charwood Road, Suite I , Hanover, MD

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
W-6	8/5/2008	325.21	31.63	ND	ND	293.58	ND(5.0)	ND(5.0)	ND(5.0)	18.6	16	NA	NA	NA	NA	Interval not available
	6/7/2013	325.21	31.12	ND	ND	294.09	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	6	NA	NA	NA	NA	
	12/18/2013	325.21	32.12	ND	ND	293.09	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	3/25/2014	325.21	29.37	ND	ND	295.84	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	6/18/2014	325.21	26.56	ND	ND	298.65	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
	9/3/2014	325.21	26.98	ND	ND	298.23	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
	12/9/2014	325.21	30.37	ND	ND	294.84	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
Mann-Kendall Statistic							0	0	0	-6	-11	0	0	0	0	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
W-7	8/5/2008	329.77	37.35	ND	ND	292.42	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	16	NA	NA	NA	NA	Interval not available
	6/6/2013	329.77	37.04	ND	ND	292.73	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	12/18/2013	329.77	38.24	ND	ND	291.53	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	3/24/2014	329.77	35.60	ND	ND	294.17	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	6/18/2014	329.77	32.49	ND	ND	297.28	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
	9/3/2014	329.77	34.24	ND	ND	295.53	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
	12/9/2014	329.77	37.70	ND	ND	292.07	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
Mann-Kendall Statistic							0	0	0	0	-6	0	0	0	0	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
GFSCMW-2	3/24/2014	316.79	30.18	ND	ND	286.61	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	Interval not available
	6/19/2014	316.79	29.12	ND	ND	287.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/4/2014	316.79	27.99	ND	ND	288.80	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
GFSCMW-3	3/24/2014	319.78	29.14	ND	ND	290.64	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	Interval not available
	6/19/2014	319.78	28.42	ND	ND	291.36	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/4/2014	319.78	27.24	ND	ND	292.54	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/9/2014	319.78	34.56	ND	ND	285.22	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Kleinfelder
1340 Charwood Road, Suite I , Hanover, MD

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
GFGPMW-4	3/24/2014	310.10	18.87	ND	ND	291.23	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	Screened from 5.5-20.5'
	6/19/2014	310.10	17.21	ND	ND	292.89	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/4/2014	310.10	18.39	ND	ND	291.71	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
GFGPMW-5	3/24/2014	310.72	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	Screened from 5-25'
	6/19/2014	310.72	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/4/2014	310.72	22.31	ND	ND	288.41	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Table 3 (Continued)

Groundwater Monitoring & Analytical Data – Shallow Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
January 18, 2003 through December 10, 2014

Notes:

µg/L - micrograms per liter (µg/L)
DIPE - Isopropyl ether
ETBE - Ethyl tert-butyl ether
GW - Groundwater
J - Indicates an estimated value
MTBE - Methyl Tertiary Butyl Ether
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
TAME - Tert-Amyl methyl ether
TBA - Tert-Butyl alcohol

Kleinfelder
1340 Charwood Road, Suite I , Hanover, MD

Table 4

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-6D(65)	6/22/2010	323.09	26.69	ND	ND	296.40	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1	NA	NA	NA	NA	Open from 70-120'
	9/30/2010	323.09	26.52	ND	ND	296.57	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1	NA	NA	NA	NA	
	12/16/2010	323.09	25.92	ND	ND	297.17	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1	NA	NA	NA	NA	
	2/17/2011	323.09	26.14	ND	ND	296.95	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	5/24/2011	323.09	25.83	ND	ND	297.26	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	9/2/2011	323.09	27.45	ND	ND	295.64	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.9 J	NA	NA	NA	NA	
	12/22/2011	323.09	25.47	ND	ND	297.62	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.8 J	NA	NA	NA	NA	
	6/1/2012	323.09	25.95	ND	ND	297.14	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.8 J	NA	NA	NA	NA	
	2/25/2013	323.09	27.13	ND	ND	295.96	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	6/6/2013	323.09	26.66	ND	ND	296.43	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	12/17/2013	323.09	27.85	ND	ND	295.24	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	3/24/2014	323.09	25.24	ND	ND	297.85	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/18/2014	323.09	23.37	ND	ND	299.72	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
	9/8/2014	323.09	26.15	ND	ND	296.94	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/9/2014	323.09	29.34	ND	ND	293.75	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							0	0	0	0	-33	N/A	N/A	N/A	N/A	

Kleinfelder
1340 Charwood Road, Suite I , Hanover, MD

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-6D(75)	9/24/2009	NM	NM	NM	NM	NM	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	3.0	ND(25)	0.56	ND(5.0)	ND(5.0)	
	10/15/2009	323.09	26.69	ND	ND	296.40	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	2.8	ND(25)	0.49	ND(5.0)	ND(5.0)	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-6D(85)	6/22/2010	323.09	26.69	ND	ND	296.40	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1	NA	NA	NA	NA	
	9/30/2010	323.09	26.51	ND	ND	296.58	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1	NA	NA	NA	NA	
	12/16/2010	323.09	25.92	ND	ND	297.17	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	6	NA	NA	NA	NA	
	2/17/2011	323.09	26.14	ND	ND	296.95	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	5/24/2011	323.09	25.83	ND	ND	297.26	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	9/2/2011	323.09	27.45	ND	ND	295.64	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.9 J	NA	NA	NA	NA	
	12/22/2011	323.09	25.47	ND	ND	297.62	ND(0.5)	1 J	ND(0.8)	ND(0.8)	0.8 J	NA	NA	NA	NA	
	6/1/2012	323.09	25.95	ND	ND	297.14	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.8 J	NA	NA	NA	NA	
	2/25/2013	323.09	27.13	ND	ND	295.96	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	6/6/2013	323.09	26.66	ND	ND	296.43	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	6/18/2014	323.09	23.37	ND	ND	299.72	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
Mann-Kendall Statistic							0	2	0	0	-41	N/A	N/A	N/A	N/A	

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-6D(105)	6/22/2010	323.09	26.69	ND	ND	296.40	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	2 J	NA	NA	NA	NA	
	9/30/2010	323.09	26.52	ND	ND	296.57	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1	NA	NA	NA	NA	
	12/16/2010	323.09	25.92	ND	ND	297.17	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1	NA	NA	NA	NA	
	2/17/2011	323.09	26.14	ND	ND	296.95	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	5/24/2011	323.09	25.83	ND	ND	297.26	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	1 J	NA	NA	NA	NA	
	9/2/2011	323.09	27.45	ND	ND	295.64	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.9 J	NA	NA	NA	NA	
	12/22/2011	323.09	25.47	ND	ND	297.62	ND(0.5)	1 J	ND(0.8)	ND(0.8)	0.9 J	NA	NA	NA	NA	
	6/1/2012	323.09	25.95	ND	ND	297.14	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	0.9 J	NA	NA	NA	NA	
	2/25/2013	323.09	27.13	ND	ND	295.96	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	6/6/2013	323.09	26.66	ND	ND	296.43	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	6/18/2014	323.09	23.37	ND	ND	299.72	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
Mann-Kendall Statistic							0	2	0	0	-43	N/A	N/A	N/A	N/A	

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-6D(110)	9/24/2009	NM	NM	NM	NM	NM	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	3.0	ND(25)	0.57	ND(5.0)	ND(5.0)	
	10/15/2009	323.09	26.69	ND	ND	296.40	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	2.8	ND(25)	0.50	ND(5.0)	ND(5.0)	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-12D(110)	5/24/2011	326.43	28.12	ND	ND	298.31	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	Open from 100-160'
	9/2/2011	326.43	32.37	ND	ND	294.06	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	12/22/2011	326.43	29.63	ND	ND	296.80	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	6/1/2012	326.43	29.75	ND	ND	296.68	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	2/25/2013	326.43	30.86	ND	ND	295.57	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	6/6/2013	326.43	30.59	ND	ND	295.84	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	12/17/2013	326.43	31.51	ND	ND	294.92	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	3/24/2014	326.43	29.33	ND	ND	297.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/18/2014	326.43	25.98	ND	ND	300.45	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
Mann-Kendall Statistic							0	0	0	0	0	N/A	N/A	N/A	N/A	

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-12D(153)	5/24/2011	326.43	28.12	ND	ND	298.31	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	Open from 100-160'
	9/2/2011	326.43	32.37	ND	ND	294.06	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	6/1/2012	326.43	29.75	ND	ND	296.68	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	2/25/2013	326.43	30.86	ND	ND	295.57	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	
	6/6/2013	326.43	30.59	ND	ND	295.84	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	6/18/2014	326.43	25.98	ND	ND	300.45	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
Mann-Kendall Statistic							0	0	0	0	0	N/A	N/A	N/A	N/A	

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1340 Charwood Road, Suite I , Hanover, MD

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-16D(89)	12/22/2011	332.90	34.88	ND	ND	298.02	ND(3)	ND(4)	ND(4)	ND(4)	2600	NA	NA	NA	NA	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-16D(95)	6/1/2012	332.90	35.33	ND	ND	297.57	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	140	NA	NA	NA	NA	Abandoned to 110' (April 2011)
	2/25/2013	332.90	36.83	ND	ND	296.07	ND(100)	ND(100)	ND(100)	ND(100)	9800	ND(1600)	360	ND(100)	200	Open from 85-110'
	6/6/2013	332.90	36.15	ND	ND	296.75	18 J	ND(7)	ND(8)	ND(8)	11000	NA	NA	NA	NA	
	12/19/2013	332.90	37.13	ND	ND	295.77	ND(130)	ND(130)	ND(130)	ND(130)	19000	2800	770	ND(130)	390	
	3/25/2014	332.90	34.64	ND	ND	298.26	25	ND(25)	ND(25)	ND(25)	14000	2000	520	ND(25)	300	
	6/19/2014	332.90	32.75	ND	ND	300.15	28	ND(20)	ND(20)	ND(20)	13000	1100	660	ND(20)	280	
	9/3/2014	332.90	36.14	ND	ND	296.76	6	ND(5)	ND(5)	ND(5)	3600	450	140	ND(5)	69	
	12/9/2014	332.90	40.36	ND	ND	292.54	ND(5)	ND(5)	ND(5)	ND(5)	2100	ND(100)	29	ND(5)	19	
Mann-Kendall Statistic							6	0	0	0	0	0	2	0	0	

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1340 Charwood Road, Suite I , Hanover, MD

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-16D(110)	12/22/2011	332.90	34.88	ND	ND	298.02	ND(3)	ND(4)	ND(4)	ND(4)	2600	NA	NA	NA	NA	Abandoned to 110' (April 2011)
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Kleinfelder
1340 Charwood Road, Suite I , Hanover, MD

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-16D(125)	12/22/2011	332.90	34.88	ND	ND	298.02	ND(3)	ND(4)	ND(4)	ND(4)	2500	NA	NA	NA	NA	Abandoned to 110' (April 2011)
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Kleinfelder
1340 Charwood Road, Suite I , Hanover, MD

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-17D(75)	4/25/2014	328.84	30.77	ND	ND	298.07	ND(100)	ND(100)	ND(100)	ND(100)	120000	39000	2000	ND(100)	1900	CMT
	6/11/2014	328.84	29.81	ND	ND	299.03	ND(1)	ND(1)	ND(1)	ND(1)	20	ND(20)	2	ND(1)	ND(1)	
	9/2/2014	328.84	31.70	ND	ND	297.14	ND(1)	ND(1)	ND(1)	ND(1)	190	ND(20)	31	ND(1)	2	
	12/9/2014	328.84	NM	NM	NM	NM	21	ND(20)	ND(20)	ND(20)	37000	8300	860	ND(20)	600	
Mann-Kendall Statistic							3	0	0	0	0	-1	0	0	0	

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-17D(81)	4/25/2014	328.84	28.89	ND	ND	299.95	ND(100)	ND(100)	ND(100)	ND(100)	92000	23000	1700	ND(100)	1400	CMT
	6/11/2014	328.84	30.72	ND	ND	298.12	ND(10)	ND(10)	ND(10)	ND(10)	5000	1800	70	ND(10)	60	
	9/2/2014	328.84	31.13	ND	ND	297.71	ND(1)	ND(1)	ND(1)	ND(1)	10	ND(20)	2	ND(1)	ND(1)	
	12/9/2014	328.84	NM	NM	NM	NM	ND(10)	ND(10)	ND(10)	ND(10)	5900	2800	89	ND(10)	73	
Mann-Kendall Statistic							0	0	0	0	-2	-2	-2	0	-2	

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-17D(87.75)	4/25/2014	328.84	30.93	ND	ND	297.91	ND(50)	ND(50)	ND(50)	ND(50)	40000	11000	700	ND(50)	620	CMT
	6/11/2014	328.84	29.96	ND	ND	298.88	ND(25)	ND(25)	ND(25)	ND(25)	12000	2600	240	ND(25)	170	
	9/2/2014	328.84	31.57	ND	ND	297.27	ND(1)	ND(1)	ND(1)	ND(1)	250	61	6	ND(1)	3	
	12/9/2014	328.84	NM	NM	NM	NM	ND(20)	ND(20)	ND(20)	ND(20)	25000	1200	360	ND(20)	290	
Mann-Kendall Statistic							0	0	0	0	-2	-4	-2	0	-2	

Kleinfelder
1340 Charwood Road, Suite I , Hanover, MD

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-17D(92)	4/25/2014	328.84	30.94	ND	ND	297.90	ND(25)	ND(25)	ND(25)	ND(25)	15000	3200	370	ND(25)	270	CMT
	6/10/2014	328.84	29.95	ND	ND	298.89	ND(10)	ND(10)	ND(10)	ND(10)	11000	2200	320	ND(10)	200	
	9/2/2014	328.84	32.84	ND	ND	296.00	ND(10)	ND(10)	ND(10)	ND(10)	11000	3300	200	ND(10)	130	
	12/9/2014	328.84	NM	NM	NM	NM	ND(20)	ND(20)	ND(20)	ND(20)	32000	12000	600	ND(20)	390	
Mann-Kendall Statistic							0	0	0	0	1	4	0	0	0	

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-17D(117)	4/25/2014	328.84	31.35	ND	ND	297.49	ND(100)	ND(100)	ND(100)	ND(100)	120000	31000	2300	ND(100)	1800	CMT
	6/10/2014	328.84	30.58	ND	ND	298.26	ND(50)	ND(50)	ND(50)	ND(50)	54000	14000	1000	ND(50)	740	
	9/3/2014	328.84	32.99	ND	ND	295.85	ND(50)	ND(50)	ND(50)	ND(50)	23000	5500	450	ND(50)	300	
	12/8/2014	328.84	38.28	ND	ND	290.56	ND(5)	ND(5)	ND(5)	ND(5)	5000	1400	130	ND(5)	76	
Mann-Kendall Statistic							0	0	0	0	-6	-6	-6	0	-6	

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-17D(129.75)	4/25/2014	328.84	32.77	ND	ND	296.07	ND(100)	ND(100)	ND(100)	ND(100)	120000	30000	2300	ND(100)	1800	CMT
	6/10/2014	328.84	31.59	ND	ND	297.25	ND(50)	ND(50)	ND(50)	ND(50)	49000	17000	830	ND(50)	690	
	9/3/2014	328.84	33.61	ND	ND	295.23	ND(100)	ND(100)	ND(100)	ND(100)	80000	23000	1400	ND(100)	990	
	12/9/2014	328.84	NM	NM	NM	NM	ND(50)	ND(50)	ND(50)	ND(50)	69000	21000	1500	ND(50)	1000	
Mann-Kendall Statistic							0	0	0	0	-2	-2	0	0	0	

Kleinfelder
1340 Charwood Road, Suite I , Hanover, MD

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-17D(147)	4/25/2014	328.84	33.41	ND	ND	295.43	ND(100)	ND(100)	ND(100)	ND(100)	98000	30000	2000	ND(100)	1500	CMT
	6/11/2014	328.84	31.96	ND	ND	296.88	ND(100)	ND(100)	ND(100)	ND(100)	82000	22000	1500	ND(100)	1200	
	9/3/2014	328.84	33.92	ND	ND	294.92	6	ND(1)	ND(1)	ND(1)	55000	16000	790	ND(1)	570	
	12/9/2014	328.84	NM	NM	NM	NM	ND(50)	ND(50)	ND(50)	ND(50)	70000	21000	1500	ND(50)	1000	
Mann-Kendall Statistic							1	0	0	0	-4	-4	-3	0	-4	

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-18D	5/10/2013	334.88	40.57	ND	ND	294.31	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)	Open from 97-136'
	6/6/2013	334.88	40.69	ND	ND	294.19	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	ND(0.5)	NA	NA	NA	NA	
	12/18/2013	334.88	41.60	ND	ND	293.28	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	3/24/2014	334.88	38.94	ND	ND	295.94	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/18/2014	334.88	36.04	ND	ND	298.84	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
	9/3/2014	334.88	38.14	ND	ND	296.74	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
	12/9/2014	334.88	42.23	ND	ND	292.65	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							0	0	0	0	0	N/A	N/A	N/A	N/A	

Kleinfelder
1340 Charwood Road, Suite I , Hanover, MD

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-19D	3/28/2014	341.91	43.16	ND	ND	298.75	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
	6/20/2014	341.91	41.11	ND	ND	300.80	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
	9/4/2014	341.91	43.36	ND	ND	298.55	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
	12/9/2014	341.91	47.56	ND	ND	294.35	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Kleinfelder
1340 Charwood Road, Suite I , Hanover, MD

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-20D(73-83)	4/11/2014	329.57	NM	NM	NM	NM	ND(1)	ND(1)	ND(1)	ND(1)	72	32	2	ND(1)	ND(1)	
	7/10/2014	329.57	NM	NM	NM	NM	ND(1)	ND(1)	ND(1)	ND(1)	100	28	3	ND(1)	ND(1)	
	8/26/2014	329.57	31.26	ND	ND	298.31	ND(1)	ND(1)	ND(1)	ND(1)	100	34	2	ND(1)	ND(1)	
	9/2/2014	329.57	33.62	ND	ND	295.95	ND(1)	ND(1)	ND(1)	ND(1)	120	27	3	ND(1)	1	
	12/9/2014	329.57	36.52	ND	ND	293.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							0	0	0	0	5	-2	2	0	3	

Kleinfelder
1340 Charwood Road, Suite I , Hanover, MD

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-20D(90-100)	4/11/2014	329.58	NM	NM	NM	NM	ND(1)	ND(1)	ND(1)	ND(1)	55	24	1	ND(1)	ND(1)	
	7/10/2014	329.58	NM	NM	NM	NM	ND(1)	ND(1)	ND(1)	ND(1)	73	21	2	ND(1)	ND(1)	
	8/26/2014	329.58	32.88	ND	ND	296.70	ND(1)	ND(1)	ND(1)	ND(1)	75	26	1	ND(1)	ND(1)	
	9/2/2014	329.58	34.25	ND	ND	295.33	ND(1)	ND(1)	ND(1)	ND(1)	2	ND(20)	ND(1)	ND(1)	ND(1)	
	12/9/2014	329.58	37.24	ND	ND	292.34	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							0	0	0	0	0	-2	-3	0	0	

Kleinfelder
1340 Charwood Road, Suite I , Hanover, MD

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-20D(110)	4/11/2014	329.80	NM	NM	NM	NM	ND(1)	ND(1)	ND(1)	ND(1)	37	ND(20)	ND(1)	ND(1)	ND(1)	Hydrasleeve
	7/10/2014	329.80	NM	NM	NM	NM	ND(1)	ND(1)	ND(1)	ND(1)	43	ND(20)	1	ND(1)	ND(1)	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-20D(132-142)	4/11/2014	329.56	NM	NM	NM	NM	ND(1)	ND(1)	ND(1)	ND(1)	32	ND(20)	ND(1)	ND(1)	ND(1)	
	7/10/2014	329.56	NM	NM	NM	NM	ND(1)	ND(1)	ND(1)	ND(1)	55	ND(20)	1	ND(1)	ND(1)	
	8/26/2014	329.56	33.85	ND	ND	295.71	ND(1)	ND(1)	ND(1)	ND(1)	130	42	2	ND(1)	1	
	9/2/2014	329.56	34.36	ND	ND	295.20	ND(1)	ND(1)	ND(1)	ND(1)	100	38	3	ND(1)	ND(1)	
	12/9/2014	329.56	38.19	ND	ND	291.37	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							0	0	0	0	4	3	6	0	1	

Kleinfelder
1340 Charwood Road, Suite I , Hanover, MD

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-23D	5/19/2014	324.81	27.72	ND	ND	297.09	ND(10)	ND(10)	ND(10)	ND(10)	8000	1800	260	ND(10)	120	Screened from 90-100'
	6/10/2014	324.81	27.34	ND	ND	297.47	ND(20)	ND(20)	ND(20)	ND(20)	11000	2200	340	ND(20)	180	
	6/19/2014	324.81	27.19	ND	ND	297.62	ND(10)	ND(10)	ND(10)	ND(10)	5100	ND(200)	130	ND(10)	57	
	8/20/2014	324.81	28.42	ND	ND	296.39	ND(10)	ND(10)	ND(10)	ND(10)	10000	2100	270	ND(10)	140	
	9/3/2014	324.81	29.86	ND	ND	294.95	ND(20)	ND(20)	ND(20)	ND(20)	9300	1700	280	ND(20)	130	
	9/22/2014	324.81	32.83	ND	ND	291.98	ND(5)	ND(5)	ND(5)	ND(5)	4600	950	NA	NA	NA	
	10/21/2014	324.81	33.46	ND	ND	291.35	ND(10)	ND(10)	ND(10)	ND(10)	4100	790	120	ND(10)	68	
	12/10/2014	324.81	34.79	ND	ND	290.02	ND(1)	ND(1)	ND(1)	ND(1)	400	24	21	ND(1)	6	
Mann-Kendall Statistic							0	0	0	0	-18	-14	-3	0	-3	

Kleinfelder
1340 Charwood Road, Suite I , Hanover, MD

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-25D(76)	8/20/2014	323.92	22.06	ND	ND	301.86	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	Open from 65-101'
	9/2/2014	317.18	22.63	ND	ND	294.55	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-25D(90)	8/20/2014	323.92	22.06	ND	ND	301.86	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
	9/2/2014	317.18	22.63	ND	ND	294.55	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
	12/9/2014	317.18	25.04	ND	ND	292.14	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-25D(98)	8/20/2014	323.92	22.06	ND	ND	301.86	ND(1)	1	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
	9/2/2014	317.18	22.63	ND	ND	294.55	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Kleinfelder
1340 Charwood Road, Suite I , Hanover, MD

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-26D(67)	8/26/2014	295.13	2.63	ND	ND	292.50	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	Open from 57-104'
	9/2/2014	295.13	2.68	ND	ND	292.45	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-26D(78)	8/26/2014	295.13	2.63	ND	ND	292.50	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
	9/2/2014	295.13	2.68	ND	ND	292.45	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
	12/9/2014	295.13	2.46	ND	ND	292.67	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
MW-26D(89)	8/26/2014	295.13	2.63	ND	ND	292.50	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
	9/2/2014	295.13	2.68	ND	ND	292.45	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
PW-1(65)	8/17/2009	334.54	NM	NM	NM	NM	0.76	ND(0.50)	ND(0.50)	0.46 J	1320	80.9	148	ND(0.50)	36.8	Abandoned to 75' (Nov 2011)
	10/16/2009	334.54	NM	NM	NM	NM	8	ND	ND	8.4	2520	NA	NA	NA	NA	Open from 55-75'
	6/22/2010	334.54	34.47	ND	ND	300.07	8	ND(0.7)	ND(0.8)	7	1600	NA	NA	NA	NA	
	9/30/2010	334.54	36.84	ND	ND	297.70	9	ND(0.7)	ND(0.8)	5	1600	NA	NA	NA	NA	
	12/16/2010	334.54	36.51	ND	ND	298.03	6	ND(1)	ND(2)	5	1700	NA	NA	NA	NA	
	5/24/2011	334.54	35.87	ND	ND	298.67	8 J	ND(4)	ND(4)	4 J	2100	NA	NA	NA	NA	
	9/2/2011	334.54	38.61	ND	ND	295.93	6	ND(0.7)	ND(0.8)	3 J	1800	NA	NA	NA	NA	Abandoned to 75' (Nov 2011)
	12/22/2011	334.54	36.37	ND	ND	298.17	4 J	ND(4)	ND(4)	ND(4)	1300	NA	NA	NA	NA	
	6/1/2012	334.54	36.82	ND	ND	297.72	3 J	ND(1)	ND(2)	ND(2)	860	NA	NA	NA	NA	
	2/25/2013	334.54	38.28	ND	ND	296.26	ND(5)	ND(5)	ND(5)	ND(5)	800	110	140	ND(5)	51	
	6/6/2013	334.54	37.41	ND	ND	297.13	3 J	ND(0.7)	ND(0.8)	ND(0.8)	1200	NA	NA	NA	NA	
	12/19/2013	334.54	38.60	ND	ND	295.94	ND(25)	ND(25)	ND(25)	ND(25)	4700	630	280	ND(25)	140	
	3/25/2014	334.54	36.19	ND	ND	298.35	ND(10)	ND(10)	ND(10)	ND(10)	6900	1000	290	ND(10)	180	
	6/19/2014	334.54	34.23	ND	ND	300.31	ND(5)	ND(5)	ND(5)	ND(5)	3300	420	170	ND(5)	76	
	9/10/2014	334.54	36.96	ND	ND	297.58	ND(10)	ND(10)	ND(10)	ND(10)	4600	370	210	ND(10)	120	
	12/10/2014	334.54	42.23	ND	ND	292.31	1	ND(1)	ND(1)	ND(1)	890	110	130	ND(1)	40	
Mann-Kendall Statistic							-67	0	0	-71	9	0	0	0	0	

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1340 Charwood Road, Suite I , Hanover, MD

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
PW-1(85)	6/22/2010	334.54	34.47	ND	ND	300.07	8	ND(0.7)	ND(0.8)	5	2000	NA	NA	NA	NA	
	9/30/2010	334.54	36.85	ND	ND	297.69	9	ND(0.7)	ND(0.8)	6	1700	NA	NA	NA	NA	
	12/16/2010	334.54	36.51	ND	ND	298.03	8	ND(0.7)	ND(0.8)	6	1900	NA	NA	NA	NA	
	5/24/2011	334.54	35.87	ND	ND	298.67	6 J	ND(1)	ND(2)	3 J	2100	NA	NA	NA	NA	
	9/2/2011	334.54	38.61	ND	ND	295.93	5 J	ND(0.7)	ND(0.8)	2 J	1600	NA	NA	NA	NA	Abandoned to 75' (Nov 2011)
Mann-Kendall Statistic							-7	0	0	-5	-2	N/A	N/A	N/A	N/A	

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
PW-1(105)	10/16/2009	334.54	NM	NM	NM	NM	5.8	ND	ND	4.1	1180	NA	NA	NA	NA	
	6/22/2010	334.54	34.47	ND	ND	300.07	5	ND(1)	ND(2)	3	2300	NA	NA	NA	NA	
	9/30/2010	334.54	36.85	ND	ND	297.69	9	ND(0.7)	ND(0.8)	5	1800	NA	NA	NA	NA	
	12/16/2010	334.54	36.51	ND	ND	298.03	8	ND(1)	ND(2)	5	1700	NA	NA	NA	NA	
	5/24/2011	334.54	35.87	ND	ND	298.67	5 J	ND(1)	ND(2)	2 J	1900	NA	NA	NA	NA	
	9/2/2011	334.54	38.61	ND	ND	295.93	3 J	ND(0.7)	ND(0.8)	1 J	1400	NA	NA	NA	NA	Abandoned to 75' (Nov 2011)
Mann-Kendall Statistic							-6	0	0	-6	-1	N/A	N/A	N/A	N/A	

Kleinfelder
1340 Charwood Road, Suite I , Hanover, MD

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

		Gauging Data					Analytical Data									
Well ID	**Date**	**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)**	**MTBE (µg/L)**	**TBA (µg/L)**	**DIPE (µg/L)**	**ETBE (µg/L)**	**TAME (µg/L)**	**Comments**
RW-1	3/24/2014	328.31	30.91	ND	ND	297.40	NS	NS	NS	NS	NS	NS	NS	NS	NS	Screened from 21-91'
	6/19/2014	328.31	28.14	ND	ND	300.17	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	8/20/2014	328.31	30.26	ND	ND	298.05	ND(20)	ND(20)	ND(20)	ND(20)	19000	3800	420	ND(20)	220	
	12/11/2014	328.31	58.61	ND	ND	269.70	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Mann-Kendall Statistic							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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1340 Charwood Road, Suite I , Hanover, MD

Table 4 (Continued)

Groundwater Monitoring & Analytical Data – Deep Wells

Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
August 17, 2009 through December 11, 2014

Notes:

µg/L - micrograms per liter (µg/L)
CMT - Continuous Multichannel Tubing
DIPE - Isopropyl ether
ETBE - Ethyl tert-butyl ether
GW - Groundwater
J - Indicates an estimated value
MTBE - Methyl Tertiary Butyl Ether
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
TAME - Tert-Amyl methyl ether
TBA - Tert-Butyl alcohol

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1340 Charwood Road, Suite I , Hanover, MD

Table 5

Monitored Natural Attenuation Field Parameters Summary
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

		Monitored Natural Attenuation Field Parameters				
Well ID	**Date**	**Dissolved Oxygen (mg/L)**	**ORP (mV)**	**pH (su)**	**Specific Conductance (mS/cm)**	**Comments**
MW-1	3/25/2014	0.91	-123.2	11.56	0.425	
	6/20/2014	0.56	219.8	4.59	0.692	
MW-2	3/25/2014	2.98	-114.3	12.78	0.278	
	6/20/2014	5.38	210.7	4.67	0.414	
	9/10/2014	3.87	41.0	6.05	0.602	
MW-5	9/2/2014	0.68	107.2	6.12	0.431	
MW-6S	9/3/2014	2.37	121.3	6.68	0.627	
MW-6D (65)	6/18/2014	0.79	-64.6	6.34	0.686	
MW-6D (85)	6/18/2014	0.44	-118.9	6.79	0.727	
MW-6D (105)	6/18/2014	0.39	-147.9	6.63	0.839	
MW-7	3/28/2014	0.67	-159.8	11.84	0.216	
	6/20/2014	4.19	204.1	4.95	0.403	
SVE-2	3/25/2014	1.92	-144.5	12.04	0.664	
	9/10/2014	1.13	28.7	6.26	1.007	
MW-9	3/24/2014	3.60	-36.4	8.26	0.538	
MW-10	6/18/2014	3.66	153.9	5.97	0.743	
	9/3/2014	6.03	-126.1	5.08	0.310	
MW-11	3/24/2014	2.09	-117.6	10.09	0.806	
	6/20/2014	2.71	-86.4	10.62	0.729	
	9/10/2014	0.66	85.2	6.80	0.304	
MW-12D (110)	6/18/2014	2.63	-97.2	6.57	0.713	
MW-12D (153)	6/18/2014	2.25	-101.4	5.82	0.849	
MW-13	3/24/2014	0.75	-118.5	10.40	0.245	
	6/19/2014	1.52	-131.8	10.06	0.296	
	9/10/2014	1.61	-89.9	5.19	0.451	
MW-14	3/24/2014	3.59	-106.4	9.75	0.809	
	6/19/2014	3.81	-114.8	8.47	0.832	
	9/10/2014	7.08	-84.2	6.12	0.340	
MW-15	3/25/2014	2.08	-119.8	12.24	1.137	
	6/20/2014	2.54	-173.4	12.14	1.071	
	9/10/2014	2.15	42.5	6.17	0.629	
	12/10/2014	2.93	95.7	6.70	0.702	
MW-16D(95)	3/25/2014	0.26	-112.3	11.56	0.858	
	6/19/2014	0.37	-71.7	6.38	0.894	
MW-18D	6/18/2014	2.65	-138.2	6.87	0.638	
	9/3/2014	0.73	-196.0	8.87	0.286	
MW-19D	3/28/2014	3.17	-78.5	6.26	0.805	
	6/20/2014	0.69	-178.2	8.00	0.904	
	9/4/2014	6.23	-184.0	5.63	0.540	
MW-20D(73-83)	8/26/2014	2.68	54.8	6.23	0.302	
	9/2/2014	0.85	50.2	6.60	0.503	
MW-20D(90-100)	8/26/2014	4.55	45.1	6.12	0.370	
	9/2/2014	2.36	63.1	6.17	0.489	
MW-20D(132-142)	8/26/2014	3.64	79.2	6.39	0.257	
	9/2/2014	3.59	88.2	7.13	0.551	
MW-21S	4/11/2014	3.51	173.9	5.72	0.879	
	6/18/2014	1.76	158.5	6.09	0.855	
	12/10/2014	1.25	150.8	5.43	0.86	
MW-21I	4/11/2014	1.89	196.6	5.58	0.737	
	6/18/2014	1.18	213.2	5.89	0.702	
	12/10/2014	0.50	92.30	5.42	0.861	
MW-22	4/11/2014	5.86	184.8	5.79	0.539	
	6/18/2014	5.50	185.8	5.89	0.574	
	9/2/2014	1.69	-215.2	4.95	0.355	
MW-23D	6/19/2014	1.48	-95.10	8.91	0.694	
	8/20/2014	2.27	272.30	3.19	718	
	9/3/2014	0.72	-195.00	5.77	0.799	
	10/21/2014	0.50	77.20	5.80	0.809	
	12/10/2014	0.80	121.20	6.36	0.827	

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1340 Charwood Road, Suite I, Hanover, MD 21076

Table 5

Monitored Natural Attenuation Field Parameters Summary
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

		Monitored Natural Attenuation Field Parameters				
Well ID	**Date**	**Dissolved Oxygen (mg/L)**	**ORP (mV)**	**pH (su)**	**Specific Conductance (mS/cm)**	**Comments**
MW-24	4/11/2014	6.28	212.6	5.71	0.639	
	6/18/2014	6.61	215.2	5.88	0.589	
	9/3/2014	5.70	-127.6	4.83	0.553	
MW-25D (76)	8/20/2014	NA	1.9	6.10	547	
	9/2/2014	0.48	-189.6	6.16	0.663	
MW-25D (90)	8/20/2014	NA	-19.1	6.17	543	
	9/2/2014	0.49	-244.4	6.17	0.649	
	12/9/2014	0.73	-205.0	6.23	0.661	
MW-25D (98)	8/20/2014	NA	-32.6	6.16	541	
	9/2/2014	0.85	-231.9	6.20	0.658	
MW-26D (67)	8/26/2014	1.71	81.2	7.08	0.305	
	9/2/2014	1.03	-223.5	5.95	0.467	
MW-26D (78)	8/26/2014	2.36	79.8	7.09	0.402	
	9/2/2014	1.11	-263.3	6.16	0.540	
	12/9/2014	0.68	-184.4	6.45	0.6769	
MW-26D (89)	8/26/2014	1.41	81.2	6.95	0.346	
	9/2/2014	1.20	-250.3	6.07	0.554	
MW-27S	8/26/2014	1.77	34.1	6.80	0.453	
	9/2/2014	0.38	-251.3	5.78	0.420	
	12/9/2014	1.04	14.20	5.41	0.339	
MW-27I	8/26/2014	1.95	75.7	6.65	0.509	
	9/2/2014	1.12	-234.5	5.70	0.785	
	12/9/2014	1.60	199.30	5.41	0.786	
PW-1(65)	3/25/2014	0.37	-137.8	12.61	0.772	
	6/19/2014	0.49	-168.2	11.13	0.827	
	9/10/2014	0.97	69.5	6.22	0.871	
	12/10/2014	1.16	105.3	6.94	0.710	
W-1	3/25/2014	0.72	197.3	5.35	1.011	
	6/19/2014	0.72	219.6	5.12	0.932	
	9/3/2014	0.84	-64.1	5.18	1.261	
	12/10/2014	0.23	157.80	5.16	1.187	
W-2	3/25/2014	2.98	144.8	5.75	0.473	
	6/19/2014	2.85	197.8	6.13	0.420	
	9/3/2014	1.34	-85.7	5.46	1.042	
	12/10/2014	0.95	68.00	4.66	0.579	
W-3	9/3/2014	5.32	-107.9	4.42	0.639	
W-6	3/25/2014	5.87	179.6	5.21	0.124	
	6/18/2014	5.68	122.6	5.65	0.169	
	9/3/2014	4.70	-123.8	4.90	0.146	
	12/9/2014	4.87	68.60	5.87	0.160	
W-7	3/24/2014	0.99	77.30	6.03	0.392	
	6/18/2014	1.43	60.2	6.08	0.384	
	9/3/2014	0.59	-167.1	5.69	0.431	
	12/9/2014	0.93	32.90	6.07	0.383	
RW-1	8/20/2014	5.71	278.1	5.72	363	
GFSCMW-2	3/24/2014	1.32	67.50	6.15	0.425	
GFSCMW-3	3/24/2014	1.45	80.10	6.06	0.409	
GFSTMW-1	6/20/2014	5.19	181.2	5.26	0.599	

Notes:
mg/L - miligrams per liter
mV - milivolt
su - standard units
mS/cm - milisiemens per centimeter
NA - not available

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Table 6

SVE System Monitoring and Performance
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

July 10, 2014 through December 29, 2014

MONITORING DATA:

Date	SVE System Hour Meter (hr)	Total Hours	Total Days	Total Days Since Previous	Operating Wells	Blower Vacuum (inches Hg)	Effluent Air Velocity (fpm)	Air Flow (cfm)	Blower Effluent PID (ppm)	Hydrocarbon Mass Recovered (TPH >C_4-C_{10}) Beg. Conc. (mg/m^3)	End Conc. (mg/m^3)	Avg. Conc. (mg/m^3)	Recovery Rate (lbs/hr)	Mass Recovered in Period (lbs)	Cumulative Recovery (lbs)
6/17/2014	9,037	0	0.0	0.0	SVE-1 through SVE-5, MW-14	6.5	6,736	229.6	1.3	-	17.5	17.5	0.0	0.0	0.0
6/24/2014	9,201	164	6.8	6.8	SVE-1 through SVE-5, MW-14	7.0	510	17.4	1.1	17.5	17.5	17.5	0.0	0.2	0.2
7/10/2014	9,465	428	17.8	11.0	SVE-1 through SVE-5, MW-14	14.3	8,846	301.5	0.5	17.5	17.5	17.5	0.0	8.5	8.6
7/24/2014	9,474	437	18.2	0.4	SVE-1, SVE-3, SVE-5, MW-14	18.0	915	31.2	0.7	--	--	--	--	--	--
7/31/2014	9,514	478	19.9	1.7	SVE-1, SVE-3, SVE-5, MW-14	19.0	873	29.8	0.0	--	--	--	--	--	--
8/11/2014	9,545	509	21.2	1.3	SVE-1, SVE-3, SVE-5, MW-14	5.0	--	--	--	--	--	--	--	--	--
8/13/2014	9,572	536	22.3	1.1	SVE-1, SVE-3, SVE-5, MW-14	10.0	--	--	--	--	--	--	--	--	--
8/14/2014	9,604	568	23.6	1.3	SVE-1 through SVE-5, MW-14	10.0	624	21.3	0.6	--	--	--	--	--	--
8/27/2014	9,909	872	36.3	12.7	SVE-1 through SVE-5, MW-14	9.0	1,312	44.7	2.0	17.5	17.5	17.5	0.0	2.6	11.2
9/12/2014	10,224	1,188	49.5	13.1	SVE-1 through SVE-5, MW-14	8.0	8,797	299.9	0.0	--	--	--	--	--	--
9/16/2014	10,316	1,279	53.3	3.8	SVE-1 through SVE-5, MW-14	7.5	--	--	0.1	17.5	17.5	17.5	0.0	3.7	15.0
9/22/2014	10,460	1,424	59.3	9.8	SVE-1 through SVE-5, MW-14	9.5	6,100	207.9	0.1	--	--	--	--	--	--
9/30/2014	10,652	1,616	67.3	8.0	SVE-1 through SVE-5, MW-14	10.0	6,600	225.0	0.0	--	--	--	--	--	--
10/6/2014	10,795	1,759	73.3	6.0	SVE-1 through SVE-5, MW-14	7.0	6,950	236.9	0.0	17.5	17.5	17.5	0.0	27.3	42.3
10/13/2014	10,963	1,926	80.3	7.0	SVE-1 through SVE-5, MW-14	7.0	6,940	236.6	0.0	--	--	--	--	--	--
10/20/2014	11,132	2,095	87.3	7.0	SVE-1 through SVE-5, MW-14	10.0	6,800	231.8	0.0	--	--	--	--	--	--
10/27/2014	11,298	2,262	94.2	6.9	SVE-1 through SVE-5, MW-14	10.0	5,760	196.3	0.0	17.5	17.5	17.5	0.0	29.1	71.4
11/3/2014	11,467	2,431	101.3	7.0	SVE-1 through SVE-5, MW-14	10.0	5,120	174.5	0.0	--	--	--	--	--	--
11/18/2014	11,830	2,793	116.4	15.1	SVE-1 through SVE-5, MW-14	14.0	2,587	88.2	0.0	17.5	17.5	17.5	0.0	16.1	115.6
12/29/2014	12,813	3,777	157.4	41.0	SVE-1 through SVE-5, MW-14	13.0	5,236	178.5	0.0	17.5	17.5	17.5	0.0	44.2	159.7

Cummulative (June 17, 2014 through December 29, 2014)
Vapor Recovery Summary:

Total Days Operating	157.4
Total Days	195
Percent Run Time	81%
Average Flow Rate (cfm)	161.8
Estimated Mass Recovered (lbs)	159.7

Flow (cfm) x (1 lb/453,592.37 mg) x (1 m^3/35.314 ft^3) x TPH mg/m^3 x 60 min/hr = Recovery Rate (lbs/hr)
Recovery Rate (lbs/hr) x (Operating Hours) = Mass Recovered for period (lbs)

Fourth Quarter (September 30, 2014 through December 29, 2014)
Vapor Recovery Summary:

Total Days Operating	90
Total Days in Period	90
Percent Run Time	100%
Average Flow Rate this Period (cfm)	196.0
Estimated Mass Recovered this Period (lbs)	144.8

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Table 6

SVE System Monitoring and Performance
Inactive Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia

July 10, 2014 through December 29, 2014

Vacuum Influence Summary:

		July 24, 2014		August 14, 2014		September 22, 2014		October 20, 2014		November 18, 2014		December 29, 2014	
Well	Distance from Closest SVE Well (feet)	Vacuum ("H20)	Normalized Vacuum Influence	Vacuum ("H20)	Normalized Vacuum Influence	Vacuum ("H20)	Normalized Vacuum Influence	Vacuum ("H20)	Normalized Vacuum Influence	Vacuum ("H20)	Normalized Vacuum Influence	Vacuum ("H20)	Normalized Vacuum Influence
SVE-1		271	--	109	--	89	--	150	--	122	--	136	--
SVE-2		OFF	--	122	--	5	--	40	--	82	--	163	--
SVE-3		258	--	122	--	80	--	150	--	190	--	176	--
SVE-4		OFF	--	109	--	20	--	20	--	27	--	108	--
SVE-5		258	--	109	--	85	--	135	--	190	--	122	--
MW-14		271	--	116	--	90	--	125	--	27	--	95	--
MW-1	11.8	81.60	30.9%	38	33.2%	13.0	21.1%	50.0	48.4%	65.5	61.5%	32.0	24.0%
MW-2	14.5	4.40	1.7%	3.0	2.6%	0.7	1.1%	4.5	4.4%	4.8	4.5%	5.0	3.8%
MW-7	29.4	2.20	0.8%	0.2	0.2%	0.5	0.8%	1.0	1.0%	2.2	2.1%	1.0	0.8%
MW-9	59.6	NM	NM	0.1	0.1%	0.1	0.2%	0.5	0.5%	NM	NM	2.0	1.5%
MW-11	5.2	19.50	7.4%	7.5	6.6%	12.0	19.5%	16.0	15.5%	15.5	14.6%	15.0	11.3%
MW-13	12.0	0.46	0.2%	0.5	0.4%	1.5	2.4%	2.0	1.9%	0.6	0.6%	2.0	1.5%
MW-15	3.1	0.19	0.1%	8.0	7.0%	0.5	0.8%	6.5	6.3%	14.0	13.1%	10.0	7.5%

Notes:

Operating days are from the last monitoring event of the previous month to last monitoring event of the current month.

Flow (cfm) x (1 lb/453,592.37 mg) x (1 m^3/35.314 ft^3) x TPH mg/m^3 x 60 min/hr = Recovery Rate (lbs/hr)

Recovery Rate (lbs/hr) x (Operating Hours) = Mass Recovered for period (lbs)

TPH = Total Petroluem Hydrocarbons

MTBE = methyl tert-butyl ether

BTEX = benzene, toluene, ethylbenzene,

fpm = feet per minute

cfm = cubic feet per minute

mg / m^3 = milligrams per cubic meter

lbs / hr = pounds per hour

lbs = pounds

ppm = parts per million

PID = photoionization detector

NM = not measured

NC = not calculated

Hg = mercury

hr = hour

Pipe Diameter for velocity measurements = 2.5 inches.

If TPH is below the laboratory recordable limit, then half of the sum of the detection limit is used in calculating hydrocarbon mass recovery.

"H2O = inches of water column

Vacuum for SVE-1 through SVE-5 and MW-14 and monitoring wells measured at the wellhead.

Normalized Vacuum Influence = Wellhead Vacuum/The average vacuum observed at the operating SVE wellheads * 100%

-- = Not Applicable

Kleinfelder
1340 Charwood Road, Suite I, Hanover MD

Table 7

Groundwater Recovery System Monitoring and Performance

Inactive Fairfax Facility #26140
9901 Georgetown Pike,
Great Falls, Virginia

SYSTEM OPERATING DATA:

Date	RW-1 Influent Totalizer Reading (gallons)	RW-1 Runtime (hours)	MW-16D Influent Totalizer Reading (gallons)	MW-16D Runtime (hours)	Effluent Totalizer Reading (gallons)	Gallons Treated during Period	Operating Days during Period	Average Flow (gpm)	Average Flow (gpd)	MTBE Beg. Conc. (µg/L)	MTBE End Conc. (µg/L)	Avg. Influent Total MTBE (µg/L)	MTBE Recovery Rate (lbs/hr)	MTBE Mass Recovered (lbs) during Period	MTBE Cumulative Mass Recovered (lbs)
8/28/2014	84	0	97	0	582	--	0.0	--	--	--	40,000	--	--	--	--
8/28/2014[1]	1,338	3	97	0	NR	NR	0.1	8.35	1,338	40,000	40,000	40,000	0.17	0.45	0.45
8/29/2014[2]	1,338	3	10,869	20	12,884	12,302	0.8	9.06	10,869	4,200	4,200	4,200	0.02	0.38	0.83
8/29/2014	1,361	6	10,869	20	13,599	715	0.1	4.21	6,064	40,000	60,000	50,000	0.11	0.30	1.13
9/2/2014	19,950	97	10,869	20	32,320	18,721	3.8	3.41	4,910	60,000	60,000	60,000	0.10	9.37	10.50
9/3/2014	24,901	111	10,869	20	37,020	4,700	0.6	5.60	8,057	60,000	29,000	44,500	0.12	1.75	12.24
9/4/2014	41,155	143	10,869	20	53,274	16,254	1	8.40	12,096	29,000	33,000	31,000	0.13	4.20	16.45
9/12/2014	106,698	286	10,869	20	118,402	81,382	6	9.49	13,659	33,000	33,000	33,000	0.16	22.41	38.86
9/16/2014	154,200	362	10,869	20	165,065	46,663	3.7	8.74	12,583	33,000	21,000	27,000	0.12	10.51	49.37
9/22/2014	228,617	506	10,869	20	238,365	73,300	6.0	8.48	12,217	21,000	21,000	21,000	0.09	12.84	62.22
9/30/2014	317,802	684	10,869	20	327,777	89,412	7.4	8.37	12,056	21,000	21,000	21,000	0.09	15.67	77.88
10/6/2014	388,909	827	10,869	20	399,420	71,643	6.0	8.35	12,024	21,000	16,000	18,500	0.08	11.06	88.94
10/13/2014	468,702	988	10,869	20	479,111	79,691	6.7	8.25	11,879	16,000	16,000	16,000	0.07	10.64	99.58
10/20/2014	552,099	1,157	10,869	20	561,935	82,824	7.0	8.17	11,762	16,000	17,000	16,500	0.07	11.40	110.99
10/27/2014	634,476	1,318	10,869	20	644,143	82,208	6.7	8.51	12,255	17,000	17,000	17,000	0.07	11.66	122.65
11/6/2014	741,202	1,533	10,869	20	750,608	106,465	9.0	8.25	11,884	17,000	12,000	14,500	0.06	12.88	135.53
11/18/2014	839,069	1,734	10,869	20	848,425	97,817	8.4	8.11	11,680	12,000	12,000	12,000	0.05	9.79	145.32
11/25/2014	918,427	1,896	10,869	20	927,265	78,840	6.8	8.11	11,680	12,000	12,000	12,000	0.05	7.89	153.22
11/26/2014	922,579	1,903	10,869	20	930,784	3,519	0.3	8.38	12,065	12,000	12,000	12,000	0.05	0.35	153.57
12/3/2014	991,666	2,045	10,869	20	995,891	65,107	5.9	7.64	11,004	12,000	12,000	12,000	0.05	6.52	160.09
12/17/2014	1,125,750	2,383	10,869	20	1,160,620	164,729	14.1	8.12	11,697	12,000	12,000	12,000	0.05	16.49	176.58
12/29/2014	1,300,720	2,668	10,869	20	1,299,310	138,690	11.9	8.11	11,679	12,000	8,700	10,350	0.04	11.98	188.56

Cumulative Hydrocarbon Recovery and Discharge

Groundwater Treated/Discharged this Period (gal)	1,298,728
Total Operating Days	112
Total Days in Period	123
Run Time (%)	91%
Average Flow (gpm)	8.05
Average Flow (gpd)	11,596
Total MTBE Mass Recovered this Period (lbs)	188.56

Fourth Quarter (September 30 through December 29, 2014)

Groundwater Treated/Discharged this Period (gal)	971,533
Total Operating Days	83
Total Days in Period	90
Run Time (%)	92%
Average Flow (gpm)	8.16
Average Flow (gpd)	11,752
Total MTBE Mass Recovered this Period (lbs)	110.68

HYDROCARBON RECOVERY & DISCHARGE CALCULATION:

Mass discharged/recovery rate (lbs/hr) = (conc.)(3.785 L/gal)(1 lb/453600000 µg)(flow rate-gpm)(60 min/hr)
Mass discharged/recovery (lbs) = (conc.)(3.785 L/gal)(1 lb/453600000 µg)(flow rate-gpd)(days operating)

Notes:
gal = gallons
gpm = gallons per minute
gpd = gallons per day
µg/l = micrograms per liter
lbs / hr = pounds per hour
lbs = pounds
MTBE = methyl tertiary butyl ether
If compounds were detected below the laboratory recordable limits, then half of the sum of the detection limits for each compound are used in calculating hydrocarbon mass recovery.
System readings were taken upon departure.
1 - Data representative of RW-1 pumping from 0800 - 1040 on 8/28/14. RW-1 pump turned off and MW-16D pump turned on at 1040 on 8/28/14.
2 - Data representative of MW-16D pumping from 1030 on 8/28/14 - 0630 on 8/29/14. MW-16D pump turned off and RW-1 pump turned on at 0630 on 8/29/14.

Kleinfelder
1340 Charwood Road, Suite I, Hanover, MD

APPENDIX A
Lancaster Laboratories Analysis Reports – Groundwater

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2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

October 27, 2014

Project: Fairfax 26140

Submittal Date: 10/22/2014
Group Number: 1512940
PO Number: 51141-299197
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-23D Grab Water	7646730

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

ELECTRONIC COPY TO	Kleinfelder	Attn: Mark Steele
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ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz
ELECTRONIC COPY TO	Kleinfelder	Attn: Nathan Stevens
ELECTRONIC COPY TO	Kleinfelder	Attn: Jennifer Kozak

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: MW-23D Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7646730
LL Group # 1512940
Account # 12152

Project Name: Fairfax 26140

Collected: 10/21/2014 10:00 by TB

Submitted: 10/22/2014 16:05
Reported: 10/27/2014 16:19

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FFP23

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	**t-Amyl methyl ether**	994-05-8	**68**	10	10
10335	Benzene	71-43-2	< 10	10	10
10335	**t-Butyl alcohol**	75-65-0	**790**	200	10
10335	Ethyl t-butyl ether	637-92-3	< 10	10	10
10335	Ethylbenzene	100-41-4	< 10	10	10
10335	**di-Isopropyl ether**	108-20-3	**120**	10	10
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**4,100**	100	100
10335	Toluene	108-88-3	< 10	10	10
10335	Xylene (Total)	1330-20-7	< 10	10	10

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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W142971AA	10/24/2014 15:04	Angela D Sneeringer	10
10335	BTEX + 5 Oxys	SW-846 8260B	1	W142971AA	10/24/2014 15:27	Angela D Sneeringer	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W142971AA	10/24/2014 15:04	Angela D Sneeringer	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W142971AA	10/24/2014 15:27	Angela D Sneeringer	100

Quality Control Summary

Client Name: Kleinfelder Group Number: 1512940
Reported: 10/27/14 at 04:19 PM

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

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: W142971AA	Sample number(s): 7646730							
t-Amyl methyl ether	< 1	1.	ug/l	94	97	75-120	3	30
Benzene	< 1	1.	ug/l	96	99	78-120	4	30
t-Butyl alcohol	< 20	20.	ug/l	110	102	75-120	8	30
Ethyl t-butyl ether	< 1	1.	ug/l	90	93	69-120	3	30
Ethylbenzene	< 1	1.	ug/l	94	96	79-120	2	30
di-Isopropyl ether	< 1	1.	ug/l	88	91	61-132	3	30
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	94	97	75-120	3	30
Toluene	< 1	1.	ug/l	97	97	80-120	0	30
Xylene (Total)	< 1	1.	ug/l	95	98	80-120	3	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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: W142971AA	Sample number(s): 7646730 UNSPK: P647907								
t-Amyl methyl ether	98	103	65-117	5	30				
Benzene	106	109	72-134	3	30				
t-Butyl alcohol	98	100	67-119	2	30				
Ethyl t-butyl ether	92	98	74-122	6	30				
Ethylbenzene	103	107	71-134	4	30				
di-Isopropyl ether	92	97	70-129	6	30				
Methyl Tertiary Butyl Ether	98	103	72-126	4	30				
Toluene	102	107	80-125	5	30				
Xylene (Total)	104	107	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: BTEX + 5 Oxys
Batch number: W142971AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7646730	104	97	95	93

*- 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: 1512940
Reported: 10/27/14 at 04:19 PM

Surrogate Quality Control

Blank	106	100	95	94
LCS	104	101	98	99
LCSD	104	101	97	100
MS	105	101	96	100
MSD	104	104	97	100
Limits:	80-116	77-113	80-113	78-113

*- 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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

Great Falls

For Lancaster Laboratories use only Acct. #: 12152
Group #: 1512940 Sample #: 7646730 (2)

Client:	Fairfax Petroleum	Acct. #:	
Project Name/#:	26140	PWSID #:	
Project Manager:	Mark C. Steele	P.O. #:	51141-299197
Sampler:	Tim Boswell	Quote #:	
Name of State where samples were collected:	Virginia		

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Potable Water	Matrix: NPDES Water	Matrix: Other	Total # of Containers	Analyses Requested: BTEX +5 oxy (8260)	Preservation Codes: H	Remarks	Temperature of samples upon receipt (if requested)
MW-23D	10/21/14	1100	X			X			3	X			

Preservation Codes: H=HCl T=Thiosulfate N=HNO3 B=NaOH S=H2SO4 O=Other

For Lab Use Only
FSC:
SCR#:

1 cooler

Turnaround Time Requested (TAT) (please circle): Normal (Rush)
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed: ~~Oct. 24, 2014~~ 3 day TAT
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address: mcsteele@kleinfelder.com

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
	10/21/14	1415	cooler room	10/21/14	1415
Courier Express	10/22/14	12:20		10/22/14	12:20
	10/22/14	16:05			
				10/24/14	1605

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

1 of 1 (3) HL 10/27/14
10/27/14

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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 limit of quantitation, 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 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 ≥ 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 ≥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.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

December 21, 2014

Project: Fairfax 26140

Submittal Date: 12/10/2014
Group Number: 1524569
PO Number: 51141-301820
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-15 Grab Water	7706298
MW-16D (95) Grab Water	7706299
MW-17D (75) Grab Water	7706300
MW-17D (81) Grab Water	7706301
MW-17D (87.75) Grab Water	7706302
MW-17D (92) Grab Water	7706303
MW-17D (117) Grab Water	7706304
MW-17D (129.75) Grab Water	7706305
MW-17D (147) Grab Water	7706306
MW-21S Grab Water	7706307
MW-21I Grab Water	7706308
MW-23D Grab Water	7706309
MW-25D (90) Grab Water	7706310
MW-26D (78) Grab Water	7706311
MW-27S Grab Water	7706312
MW-27I Grab Water	7706313
PW-1 (65) Grab Water	7706314
W-1 Grab Water	7706315
W-2 Grab Water	7706316
W-6 Grab Water	7706317
W-7 Grab Water	7706318

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

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ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: MW-15 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7706298
LL Group # 1524569
Account # 12152

Project Name: Fairfax 26140

Collected: 12/10/2014 07:50 by TB

Submitted: 12/10/2014 17:50
Reported: 12/21/2014 10:39

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FAX15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	**t-Amyl methyl ether**	994-05-8	**42**	2	2
10335	Benzene	71-43-2	< 2	2	2
10335	**t-Butyl alcohol**	75-65-0	**750**	40	2
10335	Ethyl t-butyl ether	637-92-3	< 2	2	2
10335	Ethylbenzene	100-41-4	< 2	2	2
10335	**di-Isopropyl ether**	108-20-3	**370**	2	2
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**2,100**	20	20
10335	Toluene	108-88-3	< 2	2	2
10335	**Xylene (Total)**	1330-20-7	**5**	2	2

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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143531AA	12/19/2014 12:05	Sarah A Guill	2
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143531AA	12/19/2014 12:28	Sarah A Guill	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W143531AA	12/19/2014 12:05	Sarah A Guill	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W143531AA	12/19/2014 12:28	Sarah A Guill	20

Sample Description: MW-16D (95) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7706299
LL Group # 1524569
Account # 12152

Project Name: Fairfax 26140

Collected: 12/09/2014 12:40 by TB

Submitted: 12/10/2014 17:50
Reported: 12/21/2014 10:39

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

16D95

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	**t-Amyl methyl ether**	994-05-8	**19**	5	5
10335	Benzene	71-43-2	< 5	5	5
10335	t-Butyl alcohol	75-65-0	< 100	100	5
10335	Ethyl t-butyl ether	637-92-3	< 5	5	5
10335	Ethylbenzene	100-41-4	< 5	5	5
10335	**di-Isopropyl ether**	108-20-3	**29**	5	5
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**2,100**	50	50
10335	Toluene	108-88-3	< 5	5	5
10335	Xylene (Total)	1330-20-7	< 5	5	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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143521AA	12/18/2014 13:48	Sarah A Guill	5
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143521AA	12/18/2014 14:12	Sarah A Guill	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W143521AA	12/18/2014 13:48	Sarah A Guill	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W143521AA	12/18/2014 14:12	Sarah A Guill	50

Sample Description: MW-17D (75) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7706300
LL Group # 1524569
Account # 12152

Project Name: Fairfax 26140

Collected: 12/09/2014 08:30 by TB

Submitted: 12/10/2014 17:50
Reported: 12/21/2014 10:39

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

17D75

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	**t-Amyl methyl ether**	994-05-8	**600**	20	20
10335	**Benzene**	71-43-2	**21**	20	20
10335	**t-Butyl alcohol**	75-65-0	**8,300**	400	20
10335	Ethyl t-butyl ether	637-92-3	< 20	20	20
10335	Ethylbenzene	100-41-4	< 20	20	20
10335	**di-Isopropyl ether**	108-20-3	**860**	20	20
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**37,000**	200	200
10335	Toluene	108-88-3	< 20	20	20
10335	Xylene (Total)	1330-20-7	< 20	20	20

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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143521AA	12/18/2014 14:35	Sarah A Guill	20
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143521AA	12/18/2014 14:59	Sarah A Guill	200
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W143521AA	12/18/2014 14:35	Sarah A Guill	20
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W143521AA	12/18/2014 14:59	Sarah A Guill	200

Sample Description: MW-17D (81) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7706301
LL Group # 1524569
Account # 12152

Project Name: Fairfax 26140

Collected: 12/09/2014 10:00 by TB

Submitted: 12/10/2014 17:50
Reported: 12/21/2014 10:39

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

17D81

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	**t-Amyl methyl ether**	994-05-8	**73**	10	10
10335	Benzene	71-43-2	< 10	10	10
10335	**t-Butyl alcohol**	75-65-0	**2,800**	200	10
10335	Ethyl t-butyl ether	637-92-3	< 10	10	10
10335	Ethylbenzene	100-41-4	< 10	10	10
10335	**di-Isopropyl ether**	108-20-3	**89**	10	10
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**5,900**	100	100
10335	Toluene	108-88-3	< 10	10	10
10335	Xylene (Total)	1330-20-7	< 10	10	10

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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143521AA	12/18/2014 15:22	Sarah A Guill	10
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143521AA	12/18/2014 15:47	Sarah A Guill	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W143521AA	12/18/2014 15:22	Sarah A Guill	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W143521AA	12/18/2014 15:47	Sarah A Guill	100

Sample Description: MW-17D (87.75) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7706302
LL Group # 1524569
Account # 12152

Project Name: Fairfax 26140

Collected: 12/09/2014 10:50 by TB

Submitted: 12/10/2014 17:50
Reported: 12/21/2014 10:39

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

17D87

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	**t-Amyl methyl ether**	994-05-8	**290**	20	20
10335	Benzene	71-43-2	< 20	20	20
10335	**t-Butyl alcohol**	75-65-0	**1,200**	400	20
10335	Ethyl t-butyl ether	637-92-3	< 20	20	20
10335	Ethylbenzene	100-41-4	< 20	20	20
10335	**di-Isopropyl ether**	108-20-3	**360**	20	20
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**25,000**	200	200
10335	Toluene	108-88-3	< 20	20	20
10335	Xylene (Total)	1330-20-7	< 20	20	20

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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143521AA	12/18/2014 16:10	Sarah A Guill	20
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143521AA	12/18/2014 16:34	Sarah A Guill	200
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W143521AA	12/18/2014 16:10	Sarah A Guill	20
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W143521AA	12/18/2014 16:34	Sarah A Guill	200

Sample Description: MW-17D (92) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7706303
LL Group # 1524569
Account # 12152

Project Name: Fairfax 26140

Collected: 12/09/2014 11:40 by TB

Submitted: 12/10/2014 17:50
Reported: 12/21/2014 10:39

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

17D92

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	**t-Amyl methyl ether**	994-05-8	**390**	20	20
10335	Benzene	71-43-2	< 20	20	20
10335	**t-Butyl alcohol**	75-65-0	**12,000**	400	20
10335	Ethyl t-butyl ether	637-92-3	< 20	20	20
10335	Ethylbenzene	100-41-4	< 20	20	20
10335	**di-Isopropyl ether**	108-20-3	**600**	20	20
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**32,000**	200	200
10335	Toluene	108-88-3	< 20	20	20
10335	Xylene (Total)	1330-20-7	< 20	20	20

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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143521AA	12/18/2014 16:58	Sarah A Guill	20
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143521AA	12/18/2014 17:21	Sarah A Guill	200
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W143521AA	12/18/2014 16:58	Sarah A Guill	20
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W143521AA	12/18/2014 17:21	Sarah A Guill	200

Sample Description: MW-17D (117) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7706304
LL Group # 1524569
Account # 12152

Project Name: Fairfax 26140

Collected: 12/08/2014 17:45 by TB

Submitted: 12/10/2014 17:50
Reported: 12/21/2014 10:39

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

17117

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	**t-Amyl methyl ether**	994-05-8	**76**	5	5
10335	Benzene	71-43-2	< 5	5	5
10335	**t-Butyl alcohol**	75-65-0	**1,400**	100	5
10335	Ethyl t-butyl ether	637-92-3	< 5	5	5
10335	Ethylbenzene	100-41-4	< 5	5	5
10335	**di-Isopropyl ether**	108-20-3	**130**	5	5
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**5,000**	50	50
10335	Toluene	108-88-3	< 5	5	5
10335	Xylene (Total)	1330-20-7	< 5	5	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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143521AA	12/18/2014 17:45	Sarah A Guill	5
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143521AA	12/18/2014 18:08	Sarah A Guill	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W143521AA	12/18/2014 17:45	Sarah A Guill	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W143521AA	12/18/2014 18:08	Sarah A Guill	50

Sample Description: MW-17D (129.75) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7706305
LL Group # 1524569
Account # 12152

Project Name: Fairfax 26140

Collected: 12/09/2014 12:00 by TB

Submitted: 12/10/2014 17:50
Reported: 12/21/2014 10:39

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

17129

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	**t-Amyl methyl ether**	994-05-8	**1,000**	50	50
10335	Benzene	71-43-2	< 50	50	50
10335	**t-Butyl alcohol**	75-65-0	**21,000**	1,000	50
10335	Ethyl t-butyl ether	637-92-3	< 50	50	50
10335	Ethylbenzene	100-41-4	< 50	50	50
10335	**di-Isopropyl ether**	108-20-3	**1,500**	50	50
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**69,000**	500	500
10335	Toluene	108-88-3	< 50	50	50
10335	Xylene (Total)	1330-20-7	< 50	50	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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143521AA	12/18/2014 18:32	Sarah A Guill	50
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143521AA	12/18/2014 18:55	Sarah A Guill	500
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W143521AA	12/18/2014 18:32	Sarah A Guill	50
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W143521AA	12/18/2014 18:55	Sarah A Guill	500

Sample Description: MW-17D (147) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7706306
LL Group # 1524569
Account # 12152

Project Name: Fairfax 26140

Collected: 12/09/2014 12:20 by TB

Submitted: 12/10/2014 17:50
Reported: 12/21/2014 10:39

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

17147

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	**t-Amyl methyl ether**	994-05-8	**1,000**	50	50
10335	Benzene	71-43-2	< 50	50	50
10335	**t-Butyl alcohol**	75-65-0	**21,000**	1,000	50
10335	Ethyl t-butyl ether	637-92-3	< 50	50	50
10335	Ethylbenzene	100-41-4	< 50	50	50
10335	**di-Isopropyl ether**	108-20-3	**1,500**	50	50
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**70,000**	500	500
10335	Toluene	108-88-3	< 50	50	50
10335	Xylene (Total)	1330-20-7	< 50	50	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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143531AA	12/19/2014 12:52	Sarah A Guill	50
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143531AA	12/19/2014 13:15	Sarah A Guill	500
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W143531AA	12/19/2014 12:52	Sarah A Guill	50
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W143531AA	12/19/2014 13:15	Sarah A Guill	500

Sample Description: MW-21S Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7706307
LL Group # 1524569
Account # 12152

Project Name: Fairfax 26140

Collected: 12/10/2014 08:15 by TB

Submitted: 12/10/2014 17:50
Reported: 12/21/2014 10:39

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FA21S

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	**t-Amyl methyl ether**	994-05-8	**8**	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	**t-Butyl alcohol**	75-65-0	**320**	20	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	**di-Isopropyl ether**	108-20-3	**20**	1	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**780**	10	10
10335	Toluene	108-88-3	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143531AA	12/19/2014 13:39	Sarah A Guill	1
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143531AA	12/19/2014 14:02	Sarah A Guill	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W143531AA	12/19/2014 13:39	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W143531AA	12/19/2014 14:02	Sarah A Guill	10

Sample Description: MW-21I Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7706308
LL Group # 1524569
Account # 12152

Project Name: Fairfax 26140

Collected: 12/10/2014 09:00 by TB

Submitted: 12/10/2014 17:50
Reported: 12/21/2014 10:39

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FA21I

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	**t-Amyl methyl ether**	994-05-8	**24**	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	**t-Butyl alcohol**	75-65-0	**1,400**	20	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	**di-Isopropyl ether**	108-20-3	**29**	1	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**1,900**	10	10
10335	Toluene	108-88-3	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143531AA	12/19/2014 14:26	Sarah A Guill	1
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143531AA	12/19/2014 14:49	Sarah A Guill	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W143531AA	12/19/2014 14:26	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W143531AA	12/19/2014 14:49	Sarah A Guill	10

Sample Description: MW-23D Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7706309
LL Group # 1524569
Account # 12152

Project Name: Fairfax 26140

Collected: 12/10/2014 09:44 by TB

Submitted: 12/10/2014 17:50
Reported: 12/21/2014 10:39

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FA23D

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	**t-Amyl methyl ether**	994-05-8	**6**	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	**t-Butyl alcohol**	75-65-0	**24**	20	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	**di-Isopropyl ether**	108-20-3	**21**	1	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**400**	10	10
10335	Toluene	108-88-3	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143531AA	12/19/2014 15:13	Sarah A Guill	1
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143531AA	12/19/2014 15:37	Sarah A Guill	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W143531AA	12/19/2014 15:13	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W143531AA	12/19/2014 15:37	Sarah A Guill	10

Sample Description: MW-25D (90) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7706310
LL Group # 1524569
Account # 12152

Project Name: Fairfax 26140

Collected: 12/09/2014 10:00 by TB

Submitted: 12/10/2014 17:50
Reported: 12/21/2014 10:39

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

25D90

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	t-Amyl methyl ether	994-05-8	< 1	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	t-Butyl alcohol	75-65-0	< 20	20	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	di-Isopropyl ether	108-20-3	< 1	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	< 1	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143521AA	12/18/2014 12:38	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W143521AA	12/18/2014 12:38	Sarah A Guill	1

Sample Description: MW-26D (78) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7706311
LL Group # 1524569
Account # 12152

Project Name: Fairfax 26140

Collected: 12/09/2014 08:45 by TB

Submitted: 12/10/2014 17:50
Reported: 12/21/2014 10:39

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

26D78

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	t-Amyl methyl ether	994-05-8	< 1	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	t-Butyl alcohol	75-65-0	< 20	20	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	di-Isopropyl ether	108-20-3	< 1	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	< 1	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143521AA	12/18/2014 13:01	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W143521AA	12/18/2014 13:01	Sarah A Guill	1

Sample Description: MW-27S Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7706312
LL Group # 1524569
Account # 12152

Project Name: Fairfax 26140

Collected: 12/09/2014 13:15 by TB

Submitted: 12/10/2014 17:50
Reported: 12/21/2014 10:39

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FA27S

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	t-Amyl methyl ether	994-05-8	< 1	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	t-Butyl alcohol	75-65-0	< 20	20	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	di-Isopropyl ether	108-20-3	< 1	1	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**2**	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143521AA	12/18/2014 10:40	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W143521AA	12/18/2014 10:40	Sarah A Guill	1

Sample Description: MW-27I Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7706313
LL Group # 1524569
Account # 12152

Project Name: Fairfax 26140

Collected: 12/09/2014 14:00 by TB

Submitted: 12/10/2014 17:50
Reported: 12/21/2014 10:39

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FA27I

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	t-Amyl methyl ether	994-05-8	< 1	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	t-Butyl alcohol	75-65-0	< 20	20	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	di-Isopropyl ether	108-20-3	< 1	1	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**1**	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143521AA	12/18/2014 13:25	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W143521AA	12/18/2014 13:25	Sarah A Guill	1

Sample Description: PW-1 (65) Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7706314
LL Group # 1524569
Account # 12152

Project Name: Fairfax 26140

Collected: 12/10/2014 08:40 by TB

Submitted: 12/10/2014 17:50
Reported: 12/21/2014 10:39

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

PW165

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	**t-Amyl methyl ether**	994-05-8	**40**	1	1
10335	**Benzene**	71-43-2	**1**	1	1
10335	**t-Butyl alcohol**	75-65-0	**110**	20	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	**di-Isopropyl ether**	108-20-3	**130**	1	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**890**	10	10
10335	Toluene	108-88-3	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143531AA	12/19/2014 16:00	Sarah A Guill	1
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143531AA	12/19/2014 16:48	Sarah A Guill	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W143531AA	12/19/2014 16:00	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W143531AA	12/19/2014 16:48	Sarah A Guill	10

Sample Description: W-1 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7706315
LL Group # 1524569
Account # 12152

Project Name: Fairfax 26140

Collected: 12/10/2014 10:45 by TB

Submitted: 12/10/2014 17:50
Reported: 12/21/2014 10:39

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FAXW1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	**t-Amyl methyl ether**	994-05-8	**170**	20	20
10335	Benzene	71-43-2	< 20	20	20
10335	**t-Butyl alcohol**	75-65-0	**14,000**	400	20
10335	Ethyl t-butyl ether	637-92-3	< 20	20	20
10335	Ethylbenzene	100-41-4	< 20	20	20
10335	**di-Isopropyl ether**	108-20-3	**170**	20	20
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**18,000**	200	200
10335	Toluene	108-88-3	< 20	20	20
10335	Xylene (Total)	1330-20-7	< 20	20	20

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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143531AA	12/19/2014 17:11	Sarah A Guill	20
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143531AA	12/19/2014 17:35	Sarah A Guill	200
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W143531AA	12/19/2014 17:11	Sarah A Guill	20
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W143531AA	12/19/2014 17:35	Sarah A Guill	200

Sample Description: W-2 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7706316
LL Group # 1524569
Account # 12152

Project Name: Fairfax 26140

Collected: 12/10/2014 09:45 by TB

Submitted: 12/10/2014 17:50
Reported: 12/21/2014 10:39

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FAXW2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	**t-Amyl methyl ether**	994-05-8	**18**	2	2
10335	Benzene	71-43-2	< 2	2	2
10335	t-Butyl alcohol	75-65-0	< 40	40	2
10335	Ethyl t-butyl ether	637-92-3	< 2	2	2
10335	Ethylbenzene	100-41-4	< 2	2	2
10335	**di-Isopropyl ether**	108-20-3	**25**	2	2
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**2,100**	20	20
10335	Toluene	108-88-3	< 2	2	2
10335	Xylene (Total)	1330-20-7	< 2	2	2

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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143531AA	12/19/2014 17:59	Sarah A Guill	2
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143531AA	12/19/2014 18:22	Sarah A Guill	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W143531AA	12/19/2014 17:59	Sarah A Guill	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W143531AA	12/19/2014 18:22	Sarah A Guill	20

Sample Description: W-6 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7706317
LL Group # 1524569
Account # 12152

Project Name: Fairfax 26140

Collected: 12/09/2014 12:00 by TB

Submitted: 12/10/2014 17:50
Reported: 12/21/2014 10:39

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FAXW6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	t-Amyl methyl ether	994-05-8	< 1	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	t-Butyl alcohol	75-65-0	< 20	20	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	di-Isopropyl ether	108-20-3	< 1	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	< 1	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143531AA	12/19/2014 18:46	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W143531AA	12/19/2014 18:46	Sarah A Guill	1

Sample Description: W-7 Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7706318
LL Group # 1524569
Account # 12152

Project Name: Fairfax 26140

Collected: 12/09/2014 11:00 by TB

Submitted: 12/10/2014 17:50
Reported: 12/21/2014 10:39

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FAXW7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	t-Amyl methyl ether	994-05-8	< 1	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	t-Butyl alcohol	75-65-0	< 20	20	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	di-Isopropyl ether	108-20-3	< 1	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	< 1	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	BTEX + 5 Oxys	SW-846 8260B	1	W143531AA	12/19/2014 19:10	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W143531AA	12/19/2014 19:10	Sarah A Guill	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1524569
Reported: 12/21/14 at 10:39 AM

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

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: W143521AA	Sample number(s): 7706299-7706305,7706310-7706313							
t-Amyl methyl ether	< 1	1.	ug/l	98	97	75-120	1	30
Benzene	< 1	1.	ug/l	106	108	78-120	2	30
t-Butyl alcohol	< 20	20.	ug/l	111	114	75-120	3	30
Ethyl t-butyl ether	< 1	1.	ug/l	100	106	69-120	6	30
Ethylbenzene	< 1	1.	ug/l	109	111	79-120	2	30
di-Isopropyl ether	< 1	1.	ug/l	108	109	61-132	1	30
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	96	99	75-120	2	30
Toluene	< 1	1.	ug/l	108	110	80-120	2	30
Xylene (Total)	< 1	1.	ug/l	109	111	80-120	2	30
Batch number: W143531AA	Sample number(s): 7706298,7706306-7706309,7706314-7706318							
t-Amyl methyl ether	< 1	1.	ug/l	98	100	75-120	2	30
Benzene	< 1	1.	ug/l	106	109	78-120	2	30
t-Butyl alcohol	< 20	20.	ug/l	116	110	75-120	5	30
Ethyl t-butyl ether	< 1	1.	ug/l	103	106	69-120	2	30
Ethylbenzene	< 1	1.	ug/l	110	111	79-120	1	30
di-Isopropyl ether	< 1	1.	ug/l	109	112	61-132	3	30
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	98	101	75-120	3	30
Toluene	< 1	1.	ug/l	108	110	80-120	2	30
Xylene (Total)	< 1	1.	ug/l	110	111	80-120	2	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: BTEX + 5 Oxys
Batch number: W143521AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7706299	100	98	100	97
7706300	99	98	99	96
7706301	99	83	100	98
7706302	98	95	100	96
7706303	98	95	99	96
7706304	99	94	100	97
7706305	99	98	100	97
7706310	99	87	100	96

*- 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: 1524569
Reported: 12/21/14 at 10:39 AM

Surrogate Quality Control

7706311	100	95	99	97
7706312	99	94	100	97
7706313	99	94	100	96
Blank	100	95	101	98
LCS	101	95	101	99
LCSD	101	95	101	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX + 5 Oxys
Batch number: W143531AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7706298	97	96	101	97
7706306	98	97	100	96
7706307	99	95	101	97
7706308	98	95	100	96
7706309	100	95	100	96
7706314	97	95	101	97
7706315	98	97	101	96
7706316	98	99	100	96
7706317	100	97	101	96
7706318	99	98	101	98
Blank	98	97	101	97
LCS	101	93	103	98
LCSD	101	93	101	100
Limits:	80-116	77-113	80-113	78-113

*- 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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: 1524569 Sample #: 7706298-318

Client:	Fairfax Petroleum Realty, LLC	Acct. #:	
Project Name/#:	26140 Great Falls, VA	PWSID #:	
Project Manager:	Mark C. Steele	P.O. #:	51141-301820
Sampler:	Tim Boswell	Quote #:	
Name of State where samples were collected:	Virginia		

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (Potable)	Matrix: Water (NPDES)	Matrix: Other	Total # of Containers	Analyses Requested: BTEX + Fuel Oxygenates (8260B)	Preservation Codes: H	Remarks
[redacted]												
[redacted]												
[redacted]												
MW-15	12/10/14	0750	X			X			3	X		
MW-16D (95)	12/9/14	1240	X			X			3	X		
MW-17D (75)	12/9/14	0830	X			X			3	X		
MW-17D (81)	12/9/14	1000	X			X			3	X		
MW-17D (87.75)	12/9/14	1050	X			X			3	X		
MW-17D (92)	12/9/14	1140	X			X			3	X		
MW-17D (117)	12/8/14	1745	X			X			3	X		
MW-17D (129.75)	12/9/14	1200	X			X			3	X		
MW-17D (147)	12/9/14	1220	X			X			3	X		

Preservation Codes: H=HCl T=Thiosulfate N=HNO3 B=NaOH S=H2SO4 O=Other

Temperature of samples upon receipt (if requested): cooler 3.3

For Lab Use Only
FSC:
SCR#:

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

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 triplecate volume)
Internal COC required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
	12/10/14	1300	Lancaster	12/10/14	1320
cooler room	12/10/14	1320		12/10/14	1320
	12/10/14	1750			
					17:50
				12/10/14	

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

1 of 2

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: 1524569 Sample #: 7706298-316

Client:	Fairfax Petroleum Realty, LLC	Acct. #:	
Project Name/#:	26140 Great Falls, VA	PWSID #:	
Project Manager:	Mark C. Steele	P.O. #:	51141-301820
Sampler:	Tim Boswell	Quote #:	
Name of State where samples were collected:	Virginia		

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (Potable / NPDES)	Matrix: Other	Total # of Containers	Analyses Requested: BTEX + Fuel Oxygenates (8260B) (Preservation Code H)	Remarks
MW-21S	12/10/14	0815	X			X		3	X	cooler
MW-21I	12/10/14	0900	X			X		3	X	
MW-23D	12/10/14	0944	X			X		3	X	
MW-25D (90)	12/9/14	1000	X			X		3	X	
MW-26D (78)	12/9/14	0845	X			X		3	X	
MW-27S	12/9/14	1315	X			X		3	X	
MW-27I	12/9/14	1400	X			X		3	X	
PW-1 (65)	12/10/14	0840	X			X		3	X	
W-1	12/10/14	1045	X			X		3	X	
W-2	12/10/14	0945	X			X		3	X	
W-6	12/9/14	1200	X			X		3	X	
W-7	12/9/14	1100	X			X		3	X	

Preservation Codes: H=HCl T=Thiosulfate N=HNO3 B=NaOH S=H2SO4 O=Other

For Lab Use Only
FSC:
SCR#:

Temperature of samples upon receipt (if requested)

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

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 triplecate volume)
Internal COC required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
	12/10/14	1300	courier	12/10/14	1300
courier	12/10/14	1310		12/10/14	1310
	12/10/14	1710			
				12/11/14	17:50

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

2 of 2

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 limit of quantitation, 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 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 ≥ 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 ≥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.

APPENDIX B
Lancaster Laboratories Analysis Reports – SVE System

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

October 10, 2014

Project: Fairfax 26140

Submittal Date: 10/07/2014
Group Number: 1509072
PO Number: 51141-299197
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
Effluent Grab Air	7627675

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

ELECTRONIC COPY TO	Kleinfelder	Attn: Mark Steele
ELECTRONIC COPY TO	Kleinfelder	Attn: Venelda Williams
ELECTRONIC COPY TO	Kleinfelder	Attn: Jennifer Kozak
ELECTRONIC COPY TO	Kleinfelder	Attn: Nathan Stevens
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: Effluent Grab Air
Fairfax Petroleum 26140

LL Sample # AQ 7627675
LL Group # 1509072
Account # 12152

Project Name: Fairfax 26140

Collected: 10/06/2014 10:05 by TD

Submitted: 10/07/2014 16:20
Reported: 10/10/2014 08:22

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

CAT No.	Analysis Name	CAS Number	As Received Final Result	LOQ	As Received Final Result	LOQ	DF
Volatiles in Air	**EPA 18 mod/EPA 25 mod**		mg/m3	mg/m3	ppm(v)	ppm(v)	
07090	Benzene	71-43-2	< 3	3	< 1	1	1
07090	C1-C4 Hydrocarbons as propane	n.a.	< 18	18	< 10	10	1
07090	>C4-C10 Hydrocarbons hexane	n.a.	< 35	35	< 10	10	1
07090	Ethylbenzene	100-41-4	< 4	4	< 1	1	1
07090	MTBE	1634-04-4	< 4	4	< 1	1	1
07090	Toluene	108-88-3	< 4	4	< 1	1	1
07090	Xylene (total)	1330-20-7	< 9	9	< 2	2	1

LOQ = Limit of Quantitation

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
07090	BTEX/MTBE/C1-C4/>C4-C10	EPA 18 mod/EPA 25 mod	1	M1428030AA	10/07/2014 23:09	Florida A Cimino	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1509072
Reported: 10/10/14 at 08:22 AM

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

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: M1428030AA	Sample number(s): 7627675							
Benzene	< 3	3.	mg/m3	95	96	75-111	1	30
C1-C4 Hydrocarbons as propane	< 18	18.	mg/m3					
>C4-C10 Hydrocarbons hexane	< 35	35.	mg/m3					
Ethylbenzene	< 4	4.	mg/m3	104	90	76-135	15	30
MTBE	< 4	4.	mg/m3					
Toluene	< 4	4.	mg/m3	115	109	66-123	5	30
Xylene (total)	< 9	9.	mg/m3	110	90	70-134	20	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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152 (1)
Group #: 1509072 Sample #: 7627675

Client:	Fairfax Petroleum	Acct. #:	
Project Name/#:	26140	PWSID #:	
Project Manager:	Mark C. Steele	P.O. #:	51141-299197
Sampler:	Travis Dugstad	Quote #:	
Name of State where samples were collected:	Virginia		

Sample Identification	Date Collected (2014)	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (Potable / NPDES)	Matrix: Other	Total # of Containers	Analyses Requested / Preservation Codes: BTEX, MTBE (18/25) H	TPH C1-C4 (18/25) H	TPH C5-C10 (18/25)							Remarks	Temperature of samples upon receipt (if requested)
Effluent	10/6	1605	X				X	2	X	X	X								

Preservation Codes: H=HCl T=Thiosulfate N=HNO3 B=NaOH S=H2SO4 O=Other

For Lab Use Only
FSC:
SCR#:

Turnaround Time Requested (TAT) (please circle): (Normal) Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax (E-mail)
Phone #: Fax #:
E-mail address:

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 triplecate volume)
Internal COC required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	10/6/14	1500	[signature]	10/7/14	1310
[signature]	10/7/14	10:20			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: [signature]	Date 10/7/14	Time 1626

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

eurofins | Lancaster Laboratories Environmental

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 limit of quantitation, 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 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 ≥ 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 ≥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.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

October 31, 2014

Project: Great Falls, VA

Submittal Date: 10/28/2014
Group Number: 1514217
PO Number: 51141-299197
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
Effluent Grab Air	7653334

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

ELECTRONIC COPY TO	Kleinfelder	Attn: Mark Steele
ELECTRONIC COPY TO	Kleinfelder	Attn: Venelda Williams
ELECTRONIC COPY TO	Kleinfelder	Attn: Jennifer Kozak
ELECTRONIC COPY TO	Kleinfelder	Attn: Nathan Stevens
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: Effluent Grab Air
Fairfax Petroleum Great Falls, VA

LL Sample # AQ 7653334
LL Group # 1514217
Account # 12152

Project Name: Great Falls, VA

Collected: 10/27/2014 09:35 by TD

Submitted: 10/28/2014 16:20
Reported: 10/31/2014 15:07

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

CAT No.	Analysis Name	CAS Number	As Received Final Result	LOQ	As Received Final Result	LOQ	DF
Volatiles in Air	**EPA 18 mod/EPA 25 mod**		mg/m3	mg/m3	ppm(v)	ppm(v)	
07090	Benzene	71-43-2	< 3	3	< 1	1	1
07090	C1-C4 Hydrocarbons as propane	n.a.	< 18	18	< 10	10	1
07090	>C4-C10 Hydrocarbons hexane	n.a.	< 35	35	< 10	10	1
07090	Ethylbenzene	100-41-4	< 4	4	< 1	1	1
07090	MTBE	1634-04-4	< 4	4	< 1	1	1
07090	Toluene	108-88-3	< 4	4	< 1	1	1
07090	Xylene (total)	1330-20-7	< 9	9	< 2	2	1

LOQ = Limit of Quantitation

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
07090	BTEX/MTBE/C1-C4/>C4-C10	EPA 18 mod/EPA 25 mod	1	M1430230AA	10/29/2014 18:44	Florida A Cimino	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1514217
Reported: 10/31/14 at 03:07 PM

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

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: M1430230AA	Sample number(s): 7653334							
Benzene	< 3	3.	mg/m3	99	97	75-111	2	30
C1-C4 Hydrocarbons as propane	< 18	18.	mg/m3					
>C4-C10 Hydrocarbons hexane	< 35	35.	mg/m3					
Ethylbenzene	< 4	4.	mg/m3	101	102	76-135	1	30
MTBE	< 4	4.	mg/m3					
Toluene	< 4	4.	mg/m3	118	113	66-123	4	30
Xylene (total)	< 9	9.	mg/m3	102	99	70-134	3	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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: 151427 Sample #: 7653334

Client:	Fairfax Petroleum	Acct. #:	
Project Name/#:	Great Falls	PWSID #:	
Project Manager:	Mark C. Steele	P.O. #:	51141-299197
Sampler:	Travis Dykstra	Quote #:	
Name of State where samples were collected:	Virginia		

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Other	Total # of Containers	Preservation Codes	BTEX, MTBE (18/25)	TPH C1-C4 (18/25)	TPH C5-C10 (18/25)	Remarks
					Potable	NPDES				Analyses Requested			
Effluent	10/27/2014	0935	X				X	10	H H	X	X	X	

For Lab Use Only
FSC:
SCR#:

Preservation Codes: H=HCl T=Thiosulfate N=HNO3 B=NaOH S=H2SO4 O=Other

Temperature of samples upon receipt (if requested)

Turnaround Time Requested (TAT) (please circle): (Normal) Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax (E-mail)
Phone #: Fax #:
E-mail address:

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 triplecate volume)
Internal COC required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
	10/27/14	1700		10/28/14	08:40
	10/28/14	16:00			
				10/28/14	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

eurofins | Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

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

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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 limit of quantitation, 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 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 ≥ 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 ≥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.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

November 24, 2014

Project: Fairfax 26140

Submittal Date: 11/19/2014
Group Number: 1519864
PO Number: 51141-301819
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
Blower Effluent Grab Air	7681812

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

ELECTRONIC COPY TO	Kleinfelder	Attn: Mark Steele
ELECTRONIC COPY TO	Kleinfelder	Attn: Venelda Williams
ELECTRONIC COPY TO	Kleinfelder	Attn: Jennifer Kozak
ELECTRONIC COPY TO	Kleinfelder	Attn: Nathan Stevens
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: Blower Effluent Grab Air
Great Falls, VA
Fairfax 26140

LL Sample # AQ 7681812
LL Group # 1519864
Account # 12152

Project Name: Fairfax 26140

Collected: 11/18/2014 10:45 by PW

Submitted: 11/19/2014 16:05
Reported: 11/24/2014 09:24

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

CAT No.	Analysis Name	CAS Number	As Received Final Result	LOQ	As Received Final Result	LOQ	DF
Volatiles in Air	**EPA 18 mod/EPA 25 mod**		mg/m3	mg/m3	ppm(v)	ppm(v)	
07090	Benzene	71-43-2	< 3	3	< 1	1	1
07090	C1-C4 Hydrocarbons as propane	n.a.	< 18	18	< 10	10	1
07090	>C4-C10 Hydrocarbons hexane	n.a.	< 35	35	< 10	10	1
07090	Ethylbenzene	100-41-4	< 4	4	< 1	1	1
07090	MTBE	1634-04-4	< 4	4	< 1	1	1
07090	Toluene	108-88-3	< 4	4	< 1	1	1
07090	Xylene (total)	1330-20-7	< 9	9	< 2	2	1

LOQ = Limit of Quantitation

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
07090	BTEX/MTBE/C1-C4/>C4-C10	EPA 18 mod/EPA 25 mod	1	M1432330AA	11/20/2014 01:28	Florida A Cimino	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1519864
Reported: 11/24/14 at 09:24 AM

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

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: M1432330AA	Sample number(s): 7681812							
Benzene	< 3	3.	mg/m3	94	97	75-111	3	30
C1-C4 Hydrocarbons as propane	< 18	18.	mg/m3					
>C4-C10 Hydrocarbons hexane	< 35	35.	mg/m3					
Ethylbenzene	< 4	4.	mg/m3	98	106	59-159	8	30
MTBE	< 4	4.	mg/m3					
Toluene	< 4	4.	mg/m3	108	120	77-143	10	30
Xylene (total)	< 9	9.	mg/m3	93	104	70-134	11	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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: _____ Sample #: _____
1519861 7681812 (3)

Client: Fairfax Petroleum | Acct. #:
Project Name/#: Great Falls | PWSID #:
Project Manager: Mark C. Steele | P.O. #: 5114301819
Sampler: Paxton Wertz | Quote #:
Name of State where samples were collected: Virginia

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (Potable / NPDES)	Matrix: Other	Total # of Containers	Analyses Requested / Preservation Codes: BTEX, MTBE (18/25)	TPH C1-C4 (18/25)	TPH C5-C10 (18/25)	Remarks
Blower Effluent	11/18/14	1045	X				X	1	X	X	X	

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO3 B=NaOH
S=H2SO4 O=Other

Temperature of samples upon receipt (if requested)

Turnaround Time Requested (TAT) (please circle): (Normal) Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed: _____
Rush results requested by (please circle): Phone Fax E-mail
Phone #: _____ Fax #: _____
E-mail address:

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 triplecate volume)
Internal COC required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	11/19/14	0850	Sample Storage	11/19/14	0850
Sample Storage	11/19/14	13:15	[signature]	11/19/14	13:15
[signature]	11/19/14	16:00			

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

eurofins | Lancaster Laboratories Environmental

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 limit of quantitation, 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 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 ≥ 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 ≥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.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

January 08, 2015

Project: Fairfax 26140

Submittal Date: 12/18/2014
Group Number: 1526850
PO Number: 51141-301819
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
Blower Effluent Grab Air	7719133

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

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ELECTRONIC COPY TO	Kleinfelder	Attn: Nathan Stevens
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: Blower Effluent Grab Air
Fairfax Petroleum 26140

LL Sample # AQ 7719133
LL Group # 1526850
Account # 12152

Project Name: Fairfax 26140

Collected: 12/17/2014 13:00

Submitted: 12/18/2014 16:55
Reported: 01/08/2015 12:08

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

CAT No.	Analysis Name	CAS Number	As Received Final Result	LOQ	As Received Final Result	LOQ	DF
Volatiles in Air	**EPA 18 mod/EPA 25 mod**		**mg/m3**	**mg/m3**	**ppm(v)**	**ppm(v)**	
07090	Benzene	71-43-2	< 3	3	< 1	1	1
07090	C1-C4 Hydrocarbons as propane	n.a.	< 18	18	< 10	10	1
07090	>C4-C10 Hydrocarbons hexane	n.a.	< 35	35	< 10	10	1
07090	Ethylbenzene	100-41-4	< 4	4	< 1	1	1
07090	MTBE	1634-04-4	< 4	4	< 1	1	1
07090	Toluene	108-88-3	< 4	4	< 1	1	1
07090	Xylene (total)	1330-20-7	< 9	9	< 2	2	1

The reporting limit for Xylene (total) was raised due to interference from the sample matrix.

LOQ = Limit of Quantitation

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
07090	BTEX/MTBE/C1-C4/>C4-C10	EPA 18 mod/EPA 25 mod	1	M1435330AA	12/19/2014 20:45	Florida A Cimino	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1526850
Reported: 01/08/15 at 12:08 PM

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

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: M1435330AA	Sample number(s): 7719133							
Benzene	< 3	3.	mg/m3	99	98	75-111	1	30
C1-C4 Hydrocarbons as propane	< 18	18.	mg/m3					
>C4-C10 Hydrocarbons hexane	< 35	35.	mg/m3					
Ethylbenzene	< 4	4.	mg/m3	125	123	59-159	2	30
MTBE	< 4	4.	mg/m3					
Toluene	< 4	4.	mg/m3	119	114	77-143	4	30
Xylene (total)	< 9	9.	mg/m3	124	126	70-134	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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: 1526650 Sample #: 7719133

Client:	Fairfax Petroleum
Acct. #:	
Project Name/#:	Great Falls
PWSID #:	
Project Manager:	Mark C. Steele
P.O. #:	51141-301819
Sampler:	
Quote #:	
Name of State where samples were collected:	Virginia

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water (Potable / NPDES)	Other Air	Total # of Containers	BTEX, MTBE (18/X)	TPH C1-C4 (18/25)	TPH C5-C10 (18/25)						Remarks	Temperature of samples upon receipt (if requested)
Blower Effluent	12/17/14	1300	X				X	1	X	X	X							

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO3 B=NaOH
S=H2SO4 O=Other

Turnaround Time Requested (TAT) (please circle): Normal (circled) Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail (circled)
Phone #: Fax #:
E-mail address:

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
[signature]	12/17/14	1700	[signature]	12/18/14	11:15
[signature]	12/18/14	16:45			
			[signature]	12/18/14	1655

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

4886.01

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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 limit of quantitation, 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 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 ≥ 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 ≥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.

APPENDIX C

Lancaster Laboratories Analysis Reports – Groundwater Recovery System

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

October 10, 2014

Project: Fairfax 26140

Submittal Date: 10/07/2014
Group Number: 1509077
PO Number: 51141-299197
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
Influent Grab Water	7627684
Air Stripper Effluent Grab Water	7627685
LGAC1 Effluent Grab Water	7627686
LGAC2 Effluent Grab Water	7627687
LGAC3 Effluent Grab Water	7627688
LGAC4 Effluent Grab Water	7627689

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

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ELECTRONIC COPY TO	Kleinfelder	Attn: Nathan Stevens
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: Influent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7627684
LL Group # 1509077
Account # 12152

Project Name: Fairfax 26140

Collected: 10/06/2014 09:50 by TD

Submitted: 10/07/2014 16:20
Reported: 10/10/2014 15:25

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FFINF

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	< 1,000	1,000	50
10335	Acrolein	107-02-8	< 5,000	5,000	50
10335	Acrylonitrile	107-13-1	< 1,000	1,000	50
10335	**t-Amyl methyl ether**	994-05-8	**270**	50	50
10335	Benzene	71-43-2	< 50	50	50
10335	Bromodichloromethane	75-27-4	< 50	50	50
10335	Bromoform	75-25-2	< 200	200	50
10335	Bromomethane	74-83-9	< 50	50	50
10335	2-Butanone	78-93-3	< 500	500	50
10335	**t-Butyl alcohol**	75-65-0	**3,900**	1,000	50
10335	n-Butylbenzene	104-51-8	< 250	250	50
10335	sec-Butylbenzene	135-98-8	< 250	250	50
10335	Carbon Tetrachloride	56-23-5	< 50	50	50
10335	Chlorobenzene	108-90-7	< 50	50	50
10335	Chloroethane	75-00-3	< 50	50	50
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 500	500	50
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 50	50	50
10335	Chloromethane	74-87-3	< 50	50	50
10335	Dibromochloromethane	124-48-1	< 50	50	50
10335	1,2-Dichlorobenzene	95-50-1	< 250	250	50
10335	1,3-Dichlorobenzene	541-73-1	< 250	250	50
10335	1,4-Dichlorobenzene	106-46-7	< 250	250	50
10335	1,1-Dichloroethane	75-34-3	< 50	50	50
10335	1,2-Dichloroethane	107-06-2	< 50	50	50
10335	1,1-Dichloroethene	75-35-4	< 50	50	50
10335	**cis-1,2-Dichloroethene**	156-59-2	**100**	50	50
10335	trans-1,2-Dichloroethene	156-60-5	< 50	50	50
10335	1,2-Dichloropropane	78-87-5	< 50	50	50
10335	cis-1,3-Dichloropropene	10061-01-5	< 50	50	50
10335	trans-1,3-Dichloropropene	10061-02-6	< 50	50	50
10335	Ethyl t-butyl ether	637-92-3	< 50	50	50
10335	Ethylbenzene	100-41-4	< 50	50	50
10335	**di-Isopropyl ether**	108-20-3	**410**	50	50
10335	Isopropylbenzene	98-82-8	< 250	250	50
10335	p-Isopropyltoluene	99-87-6	< 250	250	50
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**16,000**	500	500
10335	Methylene Chloride	75-09-2	< 200	200	50
10335	Naphthalene	91-20-3	< 250	250	50
10335	n-Propylbenzene	103-65-1	< 250	250	50
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 50	50	50
10335	Tetrachloroethene	127-18-4	< 50	50	50
10335	Toluene	108-88-3	< 50	50	50
10335	1,1,1-Trichloroethane	71-55-6	< 50	50	50
10335	1,1,2-Trichloroethane	79-00-5	< 50	50	50
10335	Trichloroethene	79-01-6	< 50	50	50
10335	Trichlorofluoromethane	75-69-4	< 50	50	50
10335	1,2,4-Trimethylbenzene	95-63-6	< 250	250	50

Sample Description: Influent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7627684
LL Group # 1509077
Account # 12152

Project Name: Fairfax 26140

Collected: 10/06/2014 09:50 by TD

Submitted: 10/07/2014 16:20
Reported: 10/10/2014 15:25

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FFINF

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	1,3,5-Trimethylbenzene	108-67-8	< 250	250	50
10335	Vinyl Chloride	75-01-4	< 50	50	50
10335	Xylene (Total)	1330-20-7	< 50	50	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
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T142811AA	10/08/2014 16:10	Linda C Pape	50
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T142811AA	10/08/2014 16:34	Linda C Pape	500
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T142811AA	10/08/2014 16:10	Linda C Pape	50
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T142811AA	10/08/2014 16:34	Linda C Pape	500

Sample Description: Air Stripper Effluent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7627685
LL Group # 1509077
Account # 12152

Project Name: Fairfax 26140

Collected: 10/06/2014 09:40 by TD

Submitted: 10/07/2014 16:20
Reported: 10/10/2014 15:25

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FFEFF

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	< 20	20	1
10335	Acrolein	107-02-8	< 100	100	1
10335	Acrylonitrile	107-13-1	< 20	20	1
10335	**t-Amyl methyl ether**	994-05-8	**11**	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	Bromodichloromethane	75-27-4	< 1	1	1
10335	Bromoform	75-25-2	< 4	4	1
10335	Bromomethane	74-83-9	< 1	1	1
10335	2-Butanone	78-93-3	< 10	10	1
10335	**t-Butyl alcohol**	75-65-0	**3,700**	200	10
10335	n-Butylbenzene	104-51-8	< 5	5	1
10335	sec-Butylbenzene	135-98-8	< 5	5	1
10335	Carbon Tetrachloride	56-23-5	< 1	1	1
10335	Chlorobenzene	108-90-7	< 1	1	1
10335	Chloroethane	75-00-3	< 1	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 10	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 1	1	1
10335	Chloromethane	74-87-3	< 1	1	1
10335	Dibromochloromethane	124-48-1	< 1	1	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,3-Dichlorobenzene	541-73-1	< 5	5	1
10335	1,4-Dichlorobenzene	106-46-7	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 1	1	1
10335	1,2-Dichloroethane	107-06-2	< 1	1	1
10335	1,1-Dichloroethene	75-35-4	< 1	1	1
10335	cis-1,2-Dichloroethene	156-59-2	< 1	1	1
10335	trans-1,2-Dichloroethene	156-60-5	< 1	1	1
10335	1,2-Dichloropropane	78-87-5	< 1	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	< 1	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	< 1	1	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	**di-Isopropyl ether**	108-20-3	**4**	1	1
10335	Isopropylbenzene	98-82-8	< 5	5	1
10335	p-Isopropyltoluene	99-87-6	< 5	5	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**830**	10	10
10335	Methylene Chloride	75-09-2	< 4	4	1
10335	Naphthalene	91-20-3	< 5	5	1
10335	n-Propylbenzene	103-65-1	< 5	5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 1	1	1
10335	Tetrachloroethene	127-18-4	< 1	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	1,1,1-Trichloroethane	71-55-6	< 1	1	1
10335	1,1,2-Trichloroethane	79-00-5	< 1	1	1
10335	Trichloroethene	79-01-6	< 1	1	1
10335	Trichlorofluoromethane	75-69-4	< 1	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	< 5	5	1

Sample Description: Air Stripper Effluent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7627685
LL Group # 1509077
Account # 12152

Project Name: Fairfax 26140

Collected: 10/06/2014 09:40 by TD

Submitted: 10/07/2014 16:20
Reported: 10/10/2014 15:25

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FFEFF

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	1,3,5-Trimethylbenzene	108-67-8	< 5	5	1
10335	Vinyl Chloride	75-01-4	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T142811AA	10/08/2014 16:57	Linda C Pape	1
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T142811AA	10/08/2014 17:20	Linda C Pape	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T142811AA	10/08/2014 16:57	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T142811AA	10/08/2014 17:20	Linda C Pape	10

Sample Description: LGAC1 Effluent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7627686
LL Group # 1509077
Account # 12152

Project Name: Fairfax 26140

Collected: 10/06/2014 09:30 by TD

Submitted: 10/07/2014 16:20
Reported: 10/10/2014 15:25

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FFL1E

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	< 20	20	1
10335	Acrolein	107-02-8	< 100	100	1
10335	Acrylonitrile	107-13-1	< 20	20	1
10335	t-Amyl methyl ether	994-05-8	< 1	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	Bromodichloromethane	75-27-4	< 1	1	1
10335	Bromoform	75-25-2	< 4	4	1
10335	Bromomethane	74-83-9	< 1	1	1
10335	2-Butanone	78-93-3	< 10	10	1
10335	**t-Butyl alcohol**	75-65-0	**3,700**	200	10
10335	n-Butylbenzene	104-51-8	< 5	5	1
10335	sec-Butylbenzene	135-98-8	< 5	5	1
10335	Carbon Tetrachloride	56-23-5	< 1	1	1
10335	Chlorobenzene	108-90-7	< 1	1	1
10335	Chloroethane	75-00-3	< 1	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 10	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 1	1	1
10335	Chloromethane	74-87-3	< 1	1	1
10335	Dibromochloromethane	124-48-1	< 1	1	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,3-Dichlorobenzene	541-73-1	< 5	5	1
10335	1,4-Dichlorobenzene	106-46-7	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 1	1	1
10335	1,2-Dichloroethane	107-06-2	< 1	1	1
10335	1,1-Dichloroethene	75-35-4	< 1	1	1
10335	cis-1,2-Dichloroethene	156-59-2	< 1	1	1
10335	trans-1,2-Dichloroethene	156-60-5	< 1	1	1
10335	1,2-Dichloropropane	78-87-5	< 1	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	< 1	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	< 1	1	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	di-Isopropyl ether	108-20-3	< 1	1	1
10335	Isopropylbenzene	98-82-8	< 5	5	1
10335	p-Isopropyltoluene	99-87-6	< 5	5	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**150**	1	1
10335	Methylene Chloride	75-09-2	< 4	4	1
10335	Naphthalene	91-20-3	< 5	5	1
10335	n-Propylbenzene	103-65-1	< 5	5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 1	1	1
10335	Tetrachloroethene	127-18-4	< 1	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	1,1,1-Trichloroethane	71-55-6	< 1	1	1
10335	1,1,2-Trichloroethane	79-00-5	< 1	1	1
10335	Trichloroethene	79-01-6	< 1	1	1
10335	Trichlorofluoromethane	75-69-4	< 1	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	< 5	5	1
10335	1,3,5-Trimethylbenzene	108-67-8	< 5	5	1

Sample Description: LGAC1 Effluent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7627686
LL Group # 1509077
Account # 12152

Project Name: Fairfax 26140

Collected: 10/06/2014 09:30 by TD

Submitted: 10/07/2014 16:20
Reported: 10/10/2014 15:25

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FFL1E

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Vinyl Chloride	75-01-4	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T142811AA	10/08/2014 17:44	Linda C Pape	1
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T142811AA	10/08/2014 18:08	Linda C Pape	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T142811AA	10/08/2014 17:44	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T142811AA	10/08/2014 18:08	Linda C Pape	10

Sample Description: LGAC2 Effluent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7627687
LL Group # 1509077
Account # 12152

Project Name: Fairfax 26140

Collected: 10/06/2014 09:20 by TD

Submitted: 10/07/2014 16:20
Reported: 10/10/2014 15:25

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FFL2E

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	< 20	20	1
10335	Acrolein	107-02-8	< 100	100	1
10335	Acrylonitrile	107-13-1	< 20	20	1
10335	t-Amyl methyl ether	994-05-8	< 1	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	Bromodichloromethane	75-27-4	< 1	1	1
10335	Bromoform	75-25-2	< 4	4	1
10335	Bromomethane	74-83-9	< 1	1	1
10335	2-Butanone	78-93-3	< 10	10	1
10335	**t-Butyl alcohol**	75-65-0	**3,700**	400	20
10335	n-Butylbenzene	104-51-8	< 5	5	1
10335	sec-Butylbenzene	135-98-8	< 5	5	1
10335	Carbon Tetrachloride	56-23-5	< 1	1	1
10335	Chlorobenzene	108-90-7	< 1	1	1
10335	Chloroethane	75-00-3	< 1	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 10	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 1	1	1
10335	Chloromethane	74-87-3	< 1	1	1
10335	Dibromochloromethane	124-48-1	< 1	1	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,3-Dichlorobenzene	541-73-1	< 5	5	1
10335	1,4-Dichlorobenzene	106-46-7	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 1	1	1
10335	1,2-Dichloroethane	107-06-2	< 1	1	1
10335	1,1-Dichloroethene	75-35-4	< 1	1	1
10335	cis-1,2-Dichloroethene	156-59-2	< 1	1	1
10335	trans-1,2-Dichloroethene	156-60-5	< 1	1	1
10335	1,2-Dichloropropane	78-87-5	< 1	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	< 1	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	< 1	1	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	di-Isopropyl ether	108-20-3	< 1	1	1
10335	Isopropylbenzene	98-82-8	< 5	5	1
10335	p-Isopropyltoluene	99-87-6	< 5	5	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	< 1	1	1
10335	Methylene Chloride	75-09-2	< 4	4	1
10335	Naphthalene	91-20-3	< 5	5	1
10335	n-Propylbenzene	103-65-1	< 5	5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 1	1	1
10335	Tetrachloroethene	127-18-4	< 1	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	1,1,1-Trichloroethane	71-55-6	< 1	1	1
10335	1,1,2-Trichloroethane	79-00-5	< 1	1	1
10335	Trichloroethene	79-01-6	< 1	1	1
10335	Trichlorofluoromethane	75-69-4	< 1	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	< 5	5	1
10335	1,3,5-Trimethylbenzene	108-67-8	< 5	5	1
10335	Vinyl Chloride	75-01-4	< 1	1	1

Sample Description: LGAC2 Effluent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7627687
LL Group # 1509077
Account # 12152

Project Name: Fairfax 26140

Collected: 10/06/2014 09:20 by TD

Submitted: 10/07/2014 16:20
Reported: 10/10/2014 15:25

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FFL2E

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T142811AA	10/08/2014 15:00	Linda C Pape	1
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T142821AA	10/09/2014 16:40	Linda C Pape	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T142811AA	10/08/2014 15:00	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T142821AA	10/09/2014 16:40	Linda C Pape	20

Sample Description: LGAC3 Effluent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7627688
LL Group # 1509077
Account # 12152

Project Name: Fairfax 26140

Collected: 10/06/2014 09:10 by TD

Submitted: 10/07/2014 16:20
Reported: 10/10/2014 15:25

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FFL3E

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	< 20	20	1
10335	Acrolein	107-02-8	< 100	100	1
10335	Acrylonitrile	107-13-1	< 20	20	1
10335	t-Amyl methyl ether	994-05-8	< 1	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	Bromodichloromethane	75-27-4	< 1	1	1
10335	Bromoform	75-25-2	< 4	4	1
10335	Bromomethane	74-83-9	< 1	1	1
10335	2-Butanone	78-93-3	< 10	10	1
10335	**t-Butyl alcohol**	75-65-0	**3,800**	400	20
10335	n-Butylbenzene	104-51-8	< 5	5	1
10335	sec-Butylbenzene	135-98-8	< 5	5	1
10335	Carbon Tetrachloride	56-23-5	< 1	1	1
10335	Chlorobenzene	108-90-7	< 1	1	1
10335	Chloroethane	75-00-3	< 1	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 10	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 1	1	1
10335	Chloromethane	74-87-3	< 1	1	1
10335	Dibromochloromethane	124-48-1	< 1	1	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,3-Dichlorobenzene	541-73-1	< 5	5	1
10335	1,4-Dichlorobenzene	106-46-7	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 1	1	1
10335	1,2-Dichloroethane	107-06-2	< 1	1	1
10335	1,1-Dichloroethene	75-35-4	< 1	1	1
10335	cis-1,2-Dichloroethene	156-59-2	< 1	1	1
10335	trans-1,2-Dichloroethene	156-60-5	< 1	1	1
10335	1,2-Dichloropropane	78-87-5	< 1	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	< 1	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	< 1	1	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	di-Isopropyl ether	108-20-3	< 1	1	1
10335	Isopropylbenzene	98-82-8	< 5	5	1
10335	p-Isopropyltoluene	99-87-6	< 5	5	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	< 1	1	1
10335	Methylene Chloride	75-09-2	< 4	4	1
10335	Naphthalene	91-20-3	< 5	5	1
10335	n-Propylbenzene	103-65-1	< 5	5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 1	1	1
10335	Tetrachloroethene	127-18-4	< 1	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	1,1,1-Trichloroethane	71-55-6	< 1	1	1
10335	1,1,2-Trichloroethane	79-00-5	< 1	1	1
10335	Trichloroethene	79-01-6	< 1	1	1
10335	Trichlorofluoromethane	75-69-4	< 1	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	< 5	5	1
10335	1,3,5-Trimethylbenzene	108-67-8	< 5	5	1
10335	Vinyl Chloride	75-01-4	< 1	1	1

Sample Description: LGAC3 Effluent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7627688
LL Group # 1509077
Account # 12152

Project Name: Fairfax 26140

Collected: 10/06/2014 09:10 by TD

Submitted: 10/07/2014 16:20
Reported: 10/10/2014 15:25

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FFL3E

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T142811AA	10/08/2014 15:47	Linda C Pape	1
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T142821AA	10/09/2014 17:03	Linda C Pape	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T142811AA	10/08/2014 15:47	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T142821AA	10/09/2014 17:03	Linda C Pape	20

Sample Description: LGAC4 Effluent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7627689
LL Group # 1509077
Account # 12152

Project Name: Fairfax 26140

Collected: 10/06/2014 09:00 by TD

Submitted: 10/07/2014 16:20
Reported: 10/10/2014 15:25

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FFL4E

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	< 20	20	1
10335	Acrolein	107-02-8	< 100	100	1
10335	Acrylonitrile	107-13-1	< 20	20	1
10335	t-Amyl methyl ether	994-05-8	< 1	1	1
10335	Benzene	71-43-2	< 1	1	1
10335	Bromodichloromethane	75-27-4	< 1	1	1
10335	Bromoform	75-25-2	< 4	4	1
10335	Bromomethane	74-83-9	< 1	1	1
10335	2-Butanone	78-93-3	< 10	10	1
10335	**t-Butyl alcohol**	75-65-0	**4,000**	400	20
10335	n-Butylbenzene	104-51-8	< 5	5	1
10335	sec-Butylbenzene	135-98-8	< 5	5	1
10335	Carbon Tetrachloride	56-23-5	< 1	1	1
10335	Chlorobenzene	108-90-7	< 1	1	1
10335	Chloroethane	75-00-3	< 1	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	< 10	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	< 1	1	1
10335	Chloromethane	74-87-3	< 1	1	1
10335	Dibromochloromethane	124-48-1	< 1	1	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,3-Dichlorobenzene	541-73-1	< 5	5	1
10335	1,4-Dichlorobenzene	106-46-7	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 1	1	1
10335	1,2-Dichloroethane	107-06-2	< 1	1	1
10335	1,1-Dichloroethene	75-35-4	< 1	1	1
10335	cis-1,2-Dichloroethene	156-59-2	< 1	1	1
10335	trans-1,2-Dichloroethene	156-60-5	< 1	1	1
10335	1,2-Dichloropropane	78-87-5	< 1	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	< 1	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	< 1	1	1
10335	Ethyl t-butyl ether	637-92-3	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	di-Isopropyl ether	108-20-3	< 1	1	1
10335	Isopropylbenzene	98-82-8	< 5	5	1
10335	p-Isopropyltoluene	99-87-6	< 5	5	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	< 1	1	1
10335	Methylene Chloride	75-09-2	< 4	4	1
10335	Naphthalene	91-20-3	< 5	5	1
10335	n-Propylbenzene	103-65-1	< 5	5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	< 1	1	1
10335	Tetrachloroethene	127-18-4	< 1	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	1,1,1-Trichloroethane	71-55-6	< 1	1	1
10335	1,1,2-Trichloroethane	79-00-5	< 1	1	1
10335	Trichloroethene	79-01-6	< 1	1	1
10335	Trichlorofluoromethane	75-69-4	< 1	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	< 5	5	1
10335	1,3,5-Trimethylbenzene	108-67-8	< 5	5	1
10335	Vinyl Chloride	75-01-4	< 1	1	1

Sample Description: LGAC4 Effluent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7627689
LL Group # 1509077
Account # 12152

Project Name: Fairfax 26140

Collected: 10/06/2014 09:00 by TD

Submitted: 10/07/2014 16:20
Reported: 10/10/2014 15:25

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FFL4E

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T142811AA	10/08/2014 15:23	Linda C Pape	1
10335	VOCs 8260 Kleinfelder Full	SW-846 8260B	1	T142821AA	10/09/2014 17:27	Linda C Pape	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T142811AA	10/08/2014 15:23	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T142821AA	10/09/2014 17:27	Linda C Pape	20

Quality Control Summary

Client Name: Kleinfelder Group Number: 1509077
Reported: 10/10/14 at 03:25 PM

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

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: T142811AA	Sample number(s): 7627684-7627689							
Acetone	< 20	20.	ug/l	99	98	55-129	0	30
Acrolein	< 100	100.	ug/l	89	92	59-120	4	30
Acrylonitrile	< 20	20.	ug/l	92	95	62-120	3	30
t-Amyl methyl ether	< 1	1.	ug/l	89	91	75-120	3	30
Benzene	< 1	1.	ug/l	103	104	78-120	2	30
Bromodichloromethane	< 1	1.	ug/l	105	107	73-120	3	30
Bromoform	< 4	4.	ug/l	119	127*	61-120	6	30
Bromomethane	< 1	1.	ug/l	96	93	53-130	3	30
2-Butanone	< 10	10.	ug/l	95	95	54-133	0	30
t-Butyl alcohol	< 20	20.	ug/l	101	104	75-120	3	30
n-Butylbenzene	< 5	5.	ug/l	90	91	68-120	1	30
sec-Butylbenzene	< 5	5.	ug/l	91	95	75-120	4	30
Carbon Tetrachloride	< 1	1.	ug/l	111	112	74-130	1	30
Chlorobenzene	< 1	1.	ug/l	101	102	80-120	1	30
Chloroethane	< 1	1.	ug/l	81	83	56-120	2	30
2-Chloroethyl Vinyl Ether	< 10	10.	ug/l	82	84	62-128	4	30
Chloroform	< 1	1.	ug/l	102	104	80-122	2	30
Chloromethane	< 1	1.	ug/l	86	87	63-120	1	30
Dibromochloromethane	< 1	1.	ug/l	115	118	72-120	3	30
1,2-Dichlorobenzene	< 5	5.	ug/l	95	97	80-120	2	30
1,3-Dichlorobenzene	< 5	5.	ug/l	95	98	80-120	3	30
1,4-Dichlorobenzene	< 5	5.	ug/l	98	100	80-120	2	30
1,1-Dichloroethane	< 1	1.	ug/l	95	97	80-120	2	30
1,2-Dichloroethane	< 1	1.	ug/l	95	95	65-135	1	30
1,1-Dichloroethene	< 1	1.	ug/l	102	105	76-124	3	30
cis-1,2-Dichloroethene	< 1	1.	ug/l	98	105	80-120	7	30
trans-1,2-Dichloroethene	< 1	1.	ug/l	107	109	80-120	2	30
1,2-Dichloropropane	< 1	1.	ug/l	98	101	80-120	3	30
cis-1,3-Dichloropropene	< 1	1.	ug/l	99	101	80-120	2	30
trans-1,3-Dichloropropene	< 1	1.	ug/l	94	98	76-120	3	30
Ethyl t-butyl ether	< 1	1.	ug/l	80	85	69-120	6	30
Ethylbenzene	< 1	1.	ug/l	95	98	79-120	3	30
di-Isopropyl ether	< 1	1.	ug/l	87	89	61-132	3	30
Isopropylbenzene	< 5	5.	ug/l	94	100	80-120	6	30
p-Isopropyltoluene	< 5	5.	ug/l	91	91	76-120	0	30
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	88	92	75-120	5	30
Methylene Chloride	< 4	4.	ug/l	101	106	80-120	5	30
Naphthalene	< 5	5.	ug/l	91	91	47-126	0	30
n-Propylbenzene	< 5	5.	ug/l	95	96	80-120	1	30
1,1,2,2-Tetrachloroethane	< 1	1.	ug/l	98	97	70-120	1	30
Tetrachloroethene	< 1	1.	ug/l	109	110	80-120	1	30
Toluene	< 1	1.	ug/l	96	98	80-120	2	30
1,1,1-Trichloroethane	< 1	1.	ug/l	99	100	66-126	1	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 Group Number: 1509077
Reported: 10/10/14 at 03:25 PM

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1,2-Trichloroethane	< 1	1.	ug/l	102	104	80-120	2	30
Trichloroethene	< 1	1.	ug/l	103	107	80-120	3	30
Trichlorofluoromethane	< 1	1.	ug/l	98	96	58-135	2	30
1,2,4-Trimethylbenzene	< 5	5.	ug/l	92	93	80-120	0	30
1,3,5-Trimethylbenzene	< 5	5.	ug/l	93	93	80-120	0	30
Vinyl Chloride	< 1	1.	ug/l	87	89	63-120	2	30
Xylene (Total)	< 1	1.	ug/l	97	100	80-120	4	30
Batch number: T142821AA	Sample number(s): 7627687-7627689							
t-Butyl alcohol	< 20	20.	ug/l	103		75-120		

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: T142821AA	Sample number(s): 7627687-7627689 UNSPK: P628775								
t-Butyl alcohol	102	101	67-119	1	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 VOCs
Batch number: T142811AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7627684	105	105	97	95
7627685	108	102	94	93
7627686	109	102	94	91
7627687	106	107	96	93
7627688	107	104	96	92
7627689	107	102	97	92
Blank	110	108	94	90
LCS	108	102	96	94
LCSD	108	105	97	97
Limits:	80-116	77-113	80-113	78-113

*- 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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152 (3)
Group #: 150977 Sample #: 762764-89

Client:	Fairfax Petroleum	Acct. #:	
Project Name/#:	26140	PWSID #:	
Project Manager:	Mark C. Steele	P.O. #:	51141-299197
Sampler:	Travis Dugstad	Quote #:	

Name of State where samples were collected: Virginia

Sample Identification	Date Collected (2014)	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Other	Total # of Containers	Analyses Requested: Full List VOCs	Preservation Codes: H
Influent	10/6	0950	X			X		3	X	
Air Stripper Effluent	10/6	0940	X			X		3	X	
LGAC1 Effluent	10/6	0930	X			X		3	X	
LGAC2 Effluent	10/6	0920	X			X		3	X	
LGAC3 Effluent	10/6	0910	X			X		3	X	
LGAC4 Effluent	10/6	0900	X			X		3	X	

Matrix: Potable, NPDES

For Lab Use Only
FSC:
SCR#:

Preservation Codes: H=HCl T=Thiosulfate N=HNO3 B=NaOH S=H2SO4 O=Other

Remarks

Temperature of samples upon receipt (if requested)

Turnaround Time Requested (TAT) (please circle): (Normal) Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed: 72 hr TAT
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

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 triplecate volume)
Internal COC required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
	10/6/14	1500		10/7/14	0:20
	10/7/14	16:20			
				10/7/14	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

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 limit of quantitation, 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 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 ≥ 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 ≥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.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

October 24, 2014

Project: Fairfax 26140

Submittal Date: 10/21/2014
Group Number: 1512611
PO Number: 51141-299197
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
Influent Grab Water	7645176
Air Stripper Effluent Grab Water	7645177
LGAC1 Effluent Grab Water	7645178
LGAC2 Effluent Grab Water	7645179
LGAC3 Effluent Grab Water	7645180
LGAC4 Effluent Grab Water	7645181

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

ELECTRONIC COPY TO	Kleinfelder	Attn: Mark Steele
ELECTRONIC COPY TO	Kleinfelder	Attn: Venelda Williams
ELECTRONIC COPY TO	Kleinfelder	Attn: Jennifer Kozak
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz
ELECTRONIC COPY TO	Kleinfelder	Attn: Nathan Stevens

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: Influent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7645176
LL Group # 1512611
Account # 12152

Project Name: Fairfax 26140

Collected: 10/20/2014 11:05 by TD

Submitted: 10/21/2014 17:40
Reported: 10/24/2014 10:14

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

INFFF

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	< 10	10	10
10945	Ethylbenzene	100-41-4	< 10	10	10
10945	**Methyl Tertiary Butyl Ether**	1634-04-4	**17,000**	100	100
10945	Toluene	108-88-3	< 10	10	10
10945	Xylene (Total)	1330-20-7	< 10	10	10

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
10945	UST BTEX, MTBE in Water	SW-846 8260B	1	F142951AA	10/22/2014 15:56	Anita M Dale	10
10945	UST BTEX, MTBE in Water	SW-846 8260B	1	F142951AA	10/22/2014 16:18	Anita M Dale	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F142951AA	10/22/2014 15:56	Anita M Dale	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	F142951AA	10/22/2014 16:18	Anita M Dale	100

Sample Description: Air Stripper Effluent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7645177
LL Group # 1512611
Account # 12152

Project Name: Fairfax 26140

Collected: 10/20/2014 10:55 by TD

Submitted: 10/21/2014 17:40
Reported: 10/24/2014 10:14

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

EFFFF

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	< 1	1	1
10945	Ethylbenzene	100-41-4	< 1	1	1
10945	**Methyl Tertiary Butyl Ether**	1634-04-4	**840**	1	1
10945	Toluene	108-88-3	< 1	1	1
10945	Xylene (Total)	1330-20-7	< 1	1	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
10945	UST BTEX, MTBE in Water	SW-846 8260B	1	F142951AA	10/22/2014 16:40	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F142951AA	10/22/2014 16:40	Anita M Dale	1

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2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: LGAC1 Effluent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7645178
LL Group # 1512611
Account # 12152

Project Name: Fairfax 26140

Collected: 10/20/2014 10:45 by TD

Submitted: 10/21/2014 17:40
Reported: 10/24/2014 10:14

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FFL-1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	< 1	1	1
10945	Ethylbenzene	100-41-4	< 1	1	1
10945	**Methyl Tertiary Butyl Ether**	1634-04-4	**200**	1	1
10945	Toluene	108-88-3	< 1	1	1
10945	Xylene (Total)	1330-20-7	< 1	1	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
10945	UST BTEX, MTBE in Water	SW-846 8260B	1	F142951AA	10/22/2014 17:24	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F142951AA	10/22/2014 17:24	Anita M Dale	1

Sample Description: LGAC2 Effluent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7645179
LL Group # 1512611
Account # 12152

Project Name: Fairfax 26140

Collected: 10/20/2014 10:35 by TD

Submitted: 10/21/2014 17:40
Reported: 10/24/2014 10:14

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FFL-2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	< 1	1	1
10945	Ethylbenzene	100-41-4	< 1	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	< 1	1	1
10945	Toluene	108-88-3	< 1	1	1
10945	Xylene (Total)	1330-20-7	< 1	1	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
10945	UST BTEX, MTBE in Water	SW-846 8260B	1	F142951AA	10/22/2014 17:46	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F142951AA	10/22/2014 17:46	Anita M Dale	1

Sample Description: LGAC3 Effluent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7645180
LL Group # 1512611
Account # 12152

Project Name: Fairfax 26140

Collected: 10/20/2014 10:25 by TD

Submitted: 10/21/2014 17:40
Reported: 10/24/2014 10:14

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FFL-3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	< 1	1	1
10945	Ethylbenzene	100-41-4	< 1	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	< 1	1	1
10945	Toluene	108-88-3	< 1	1	1
10945	Xylene (Total)	1330-20-7	< 1	1	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
10945	UST BTEX, MTBE in Water	SW-846 8260B	1	F142951AA	10/22/2014 18:08	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F142951AA	10/22/2014 18:08	Anita M Dale	1

Sample Description: LGAC4 Effluent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7645181
LL Group # 1512611
Account # 12152

Project Name: Fairfax 26140

Collected: 10/20/2014 10:15 by TD

Submitted: 10/21/2014 17:40
Reported: 10/24/2014 10:14

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FFL-4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	< 1	1	1
10945	Ethylbenzene	100-41-4	< 1	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	< 1	1	1
10945	Toluene	108-88-3	< 1	1	1
10945	Xylene (Total)	1330-20-7	< 1	1	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
10945	UST BTEX, MTBE in Water	SW-846 8260B	1	F142951AA	10/22/2014 18:30	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F142951AA	10/22/2014 18:30	Anita M Dale	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1512611
Reported: 10/24/14 at 10:14 AM

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

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F142951AA	Sample number(s): 7645176-7645181							
Benzene	< 1	1.	ug/l	98		78-120		
Ethylbenzene	< 1	1.	ug/l	101		79-120		
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	98		75-120		
Toluene	< 1	1.	ug/l	101		80-120		
Xylene (Total)	< 1	1.	ug/l	100		80-120		

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: F142951AA	Sample number(s): 7645176-7645181 UNSPK: P645048								
Benzene	100	96	72-134	4	30				
Ethylbenzene	100	99	71-134	0	30				
Methyl Tertiary Butyl Ether	94	92	72-126	2	30				
Toluene	101	100	80-125	1	30				
Xylene (Total)	95	98	79-125	2	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: UST BTEX, MTBE in Water
Batch number: F142951AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7645176	92	98	106	97
7645177	94	99	103	96
7645178	92	98	105	97
7645179	93	98	102	96
7645180	92	98	104	97
7645181	94	97	102	98
Blank	94	96	103	96
LCS	92	98	102	98
MS	94	100	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 Group Number: 1512611
Reported: 10/24/14 at 10:14 AM

Surrogate Quality Control

MSD	92	98	102	99
Limits:	80-116	77-113	80-113	78-113

*- 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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: 1512611 Sample #: 764 5176-81

Except Fairfax

Client: Fairfax Petroleum Acct. #:
Project Name/#: 26140 PWSID #:
Project Manager: Mark C. Steele P.O. #: 51141-299197
Sampler: Travis Dygstad Quote #:
Name of State where samples were collected: Virginia

Sample Identification	Date Collected (2014)	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (Potable / NPDES)	Matrix: Other	Total # of Containers	Analyses Requested: BTEX/MTBE (8260)	Preservation Codes: H	Remarks
Influent	10/20	1105	X			X		3	X		
Air Stripper Effluent	10/20	1055	X			X		3	X		
LGAC1 Effluent	10/20	1045	X			X		3	X		
LGAC2 Effluent	10/20	1035	X			X		3	X		
LGAC3 Effluent	10/20	1025	X			X		3	X		
LGAC4 Effluent	10/20	1015	X			X		3	X		

Preservation Codes: H=HCl T=Thiosulfate N=HNO3 B=NaOH S=H2SO4 O=Other

For Lab Use Only
FSC:
SCR#:

Temperature of samples upon receipt (if requested)

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed: ~~23-Oct-14~~ 3 day TAT
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address: mcsteele@kleinfelder.com

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 triplecate volume)
Internal COC required? Yes No

	Relinquished by:	Date	Time	Received by:	Date	Time
1		10/20/14	1700		10/21/14	11:00
2		10/21/14	1740			
3		10/21/14				
4						
5						
6					10/21/14	1740

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 limit of quantitation, 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 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 ≥ 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 ≥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.

REVISED

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

November 10, 2014

Project: Great Falls, VA

Submittal Date: 11/03/2014
Group Number: 1515586
PO Number: 51141-299197
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
Influent Grab Water	7660109
Air Stripper Grab Water	7660110
LGAC1 Effluent Grab Water	7660111
LGAC2 Effluent Grab Water	7660112
LGAC3 Effluent Grab Water	7660113
LGAC4 Effluent Grab Water	7660114

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

ELECTRONIC COPY TO	Kleinfelder	Attn: Mark Steele
ELECTRONIC COPY TO	Kleinfelder	Attn: Venelda Williams
ELECTRONIC COPY TO	Kleinfelder	Attn: Jennifer Kozak
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz
ELECTRONIC COPY TO	Kleinfelder	Attn: Nathan Stevens

REVISED

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

November 10, 2014

Mr. Paxton Wertz
Kleinfelder
Suite 1
1340 Charwood Road
Hanover, MD 21076

Dear Mr. Wertz:

I am writing to inform you of revised analytical reports that are being issued for the following:

Project: Great Falls, VA

Group No.: 1515586

ELLE Sample No.	Client Sample Identification	Collection Date
7660109	Influent Grab Water	11/3/14
7660110	Air Stripper Grab Water	11/3/14
7660111	LGAC1 Effluent Grab Water	11/3/14
7660112	LGAC2 Effluent Grab Water	11/3/14
7660113	LGAC3 Effluent Grab Water	11/3/14
7660114	LGAC4 Effluent Grab Water	11/3/14

The correction to the data affects the Volatiles by 8260 analysis only.

In response to your inquiry regarding the volatiles data, it was determined that BTEX and MTBE were not included in the analytical report. BTEX and MTBE have been added to the report.

The revised analytical report reflects this correction and is enclosed.

You are a valued client and we apologize for any inconvenience that this incident may have caused. If you have any questions or require further assistance, please call me at 717-656-2300, Ext. 1375. We appreciate your business and look forward to continuing to serve your laboratory needs.

Sincerely,

Amek Carter
Project Manager
Environmental Client Services

AC/mc
Enclosures

REVISED

Sample Description: Influent Grab Water
Great Falls, VA

LL Sample # WW 7660109
LL Group # 1515586
Account # 12152

Project Name: Great Falls, VA

Collected: 11/03/2014 09:45 by TB

Submitted: 11/03/2014 15:55
Reported: 11/10/2014 08:35

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

GFINF

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	**Benzene**	71-43-2	**4**	1	1
10335	Carbon Tetrachloride	56-23-5	< 1	1	1
10335	Chlorobenzene	108-90-7	< 1	1	1
10335	Chloroethane	75-00-3	< 1	1	1
10335	**Chloroform**	67-66-3	**1**	1	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 1	1	1
10335	1,2-Dichloroethane	107-06-2	< 1	1	1
10335	1,1-Dichloroethene	75-35-4	< 1	1	1
10335	**cis-1,2-Dichloroethene**	156-59-2	**110**	1	1
10335	trans-1,2-Dichloroethene	156-60-5	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**12,000**	100	100
10335	Methylene Chloride	75-09-2	< 4	4	1
10335	**Tetrachloroethene**	127-18-4	**12**	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	1,1,1-Trichloroethane	71-55-6	< 1	1	1
10335	1,1,2-Trichloroethane	79-00-5	< 1	1	1
10335	**Trichloroethene**	79-01-6	**3**	1	1
10335	Trichlorofluoromethane	75-69-4	< 1	1	1
10335	Vinyl Chloride	75-01-4	< 1	1	1
10335	**Xylene (Total)**	1330-20-7	**2**	1	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
10335	8260 VOCs	SW-846 8260B	1	N143081AA	11/04/2014 11:26	Linda C Pape	1
10335	8260 VOCs	SW-846 8260B	1	N143102AA	11/07/2014 04:32	Amanda K Richards	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N143081AA	11/04/2014 11:26	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	N143102AA	11/07/2014 04:32	Amanda K Richards	100

REVISED

Sample Description: Air Stripper Grab Water
Great Falls, VA

LL Sample # WW 7660110
LL Group # 1515586
Account # 12152

Project Name: Great Falls, VA

Collected: 11/03/2014 09:50 by TB

Submitted: 11/03/2014 15:55
Reported: 11/10/2014 08:35

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

GFASE

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Benzene	71-43-2	< 1	1	1
10335	Carbon Tetrachloride	56-23-5	< 1	1	1
10335	Chlorobenzene	108-90-7	< 1	1	1
10335	Chloroethane	75-00-3	< 1	1	1
10335	Chloroform	67-66-3	< 1	1	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 1	1	1
10335	1,2-Dichloroethane	107-06-2	< 1	1	1
10335	1,1-Dichloroethene	75-35-4	< 1	1	1
10335	cis-1,2-Dichloroethene	156-59-2	< 1	1	1
10335	trans-1,2-Dichloroethene	156-60-5	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**1,000**	10	10
10335	Methylene Chloride	75-09-2	< 4	4	1
10335	Tetrachloroethene	127-18-4	< 1	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	1,1,1-Trichloroethane	71-55-6	< 1	1	1
10335	1,1,2-Trichloroethane	79-00-5	< 1	1	1
10335	Trichloroethene	79-01-6	< 1	1	1
10335	Trichlorofluoromethane	75-69-4	< 1	1	1
10335	Vinyl Chloride	75-01-4	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	8260 VOCs	SW-846 8260B	1	N143081AA	11/04/2014 11:50	Linda C Pape	1
10335	8260 VOCs	SW-846 8260B	1	N143102AA	11/07/2014 04:08	Amanda K Richards	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N143081AA	11/04/2014 11:50	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	N143102AA	11/07/2014 04:08	Amanda K Richards	10

REVISED

Sample Description: LGAC1 Effluent Grab Water
Great Falls, VA

LL Sample # WW 7660111
LL Group # 1515586
Account # 12152

Project Name: Great Falls, VA

Collected: 11/03/2014 09:55 by TB

Submitted: 11/03/2014 15:55
Reported: 11/10/2014 08:35

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

GFL1E

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Benzene	71-43-2	< 1	1	1
10335	Carbon Tetrachloride	56-23-5	< 1	1	1
10335	Chlorobenzene	108-90-7	< 1	1	1
10335	Chloroethane	75-00-3	< 1	1	1
10335	Chloroform	67-66-3	< 1	1	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 1	1	1
10335	1,2-Dichloroethane	107-06-2	< 1	1	1
10335	1,1-Dichloroethene	75-35-4	< 1	1	1
10335	cis-1,2-Dichloroethene	156-59-2	< 1	1	1
10335	trans-1,2-Dichloroethene	156-60-5	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	**Methyl Tertiary Butyl Ether**	1634-04-4	**130**	1	1
10335	Methylene Chloride	75-09-2	< 4	4	1
10335	Tetrachloroethene	127-18-4	< 1	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	1,1,1-Trichloroethane	71-55-6	< 1	1	1
10335	1,1,2-Trichloroethane	79-00-5	< 1	1	1
10335	Trichloroethene	79-01-6	< 1	1	1
10335	Trichlorofluoromethane	75-69-4	< 1	1	1
10335	Vinyl Chloride	75-01-4	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	8260 VOCs	SW-846 8260B	1	N143102AA	11/07/2014 03:44	Amanda K Richards	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N143102AA	11/07/2014 03:44	Amanda K Richards	1

REVISED

Sample Description: LGAC2 Effluent Grab Water
Great Falls, VA

LL Sample # WW 7660112
LL Group # 1515586
Account # 12152

Project Name: Great Falls, VA

Collected: 11/03/2014 10:00 by TB

Submitted: 11/03/2014 15:55
Reported: 11/10/2014 08:35

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

GFL2E

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10335	Benzene	71-43-2	< 1	1	1
10335	Carbon Tetrachloride	56-23-5	< 1	1	1
10335	Chlorobenzene	108-90-7	< 1	1	1
10335	Chloroethane	75-00-3	< 1	1	1
10335	Chloroform	67-66-3	< 1	1	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 1	1	1
10335	1,2-Dichloroethane	107-06-2	< 1	1	1
10335	1,1-Dichloroethene	75-35-4	< 1	1	1
10335	cis-1,2-Dichloroethene	156-59-2	< 1	1	1
10335	trans-1,2-Dichloroethene	156-60-5	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	< 1	1	1
10335	Methylene Chloride	75-09-2	< 4	4	1
10335	Tetrachloroethene	127-18-4	< 1	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	1,1,1-Trichloroethane	71-55-6	< 1	1	1
10335	1,1,2-Trichloroethane	79-00-5	< 1	1	1
10335	Trichloroethene	79-01-6	< 1	1	1
10335	Trichlorofluoromethane	75-69-4	< 1	1	1
10335	Vinyl Chloride	75-01-4	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	8260 VOCs	SW-846 8260B	1	N143102AA	11/07/2014 03:20	Amanda K Richards	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N143102AA	11/07/2014 03:20	Amanda K Richards	1

REVISED

Sample Description: LGAC3 Effluent Grab Water
Great Falls, VA

LL Sample # WW 7660113
LL Group # 1515586
Account # 12152

Project Name: Great Falls, VA

Collected: 11/03/2014 10:05 by TB

Submitted: 11/03/2014 15:55
Reported: 11/10/2014 08:35

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

GFL3E

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	Benzene	71-43-2	< 1	1	1
10335	Carbon Tetrachloride	56-23-5	< 1	1	1
10335	Chlorobenzene	108-90-7	< 1	1	1
10335	Chloroethane	75-00-3	< 1	1	1
10335	Chloroform	67-66-3	< 1	1	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 1	1	1
10335	1,2-Dichloroethane	107-06-2	< 1	1	1
10335	1,1-Dichloroethene	75-35-4	< 1	1	1
10335	cis-1,2-Dichloroethene	156-59-2	< 1	1	1
10335	trans-1,2-Dichloroethene	156-60-5	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	< 1	1	1
10335	Methylene Chloride	75-09-2	< 4	4	1
10335	Tetrachloroethene	127-18-4	< 1	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	1,1,1-Trichloroethane	71-55-6	< 1	1	1
10335	1,1,2-Trichloroethane	79-00-5	< 1	1	1
10335	Trichloroethene	79-01-6	< 1	1	1
10335	Trichlorofluoromethane	75-69-4	< 1	1	1
10335	Vinyl Chloride	75-01-4	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	8260 VOCs	SW-846 8260B	1	N143081AA	11/04/2014 13:02	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N143081AA	11/04/2014 13:02	Linda C Pape	1

REVISED

Sample Description: LGAC4 Effluent Grab Water
Great Falls, VA

LL Sample # WW 7660114
LL Group # 1515586
Account # 12152

Project Name: Great Falls, VA

Collected: 11/03/2014 10:10 by TB

Submitted: 11/03/2014 15:55
Reported: 11/10/2014 08:35

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

GFL4E

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	Benzene	71-43-2	< 1	1	1
10335	Carbon Tetrachloride	56-23-5	< 1	1	1
10335	Chlorobenzene	108-90-7	< 1	1	1
10335	Chloroethane	75-00-3	< 1	1	1
10335	Chloroform	67-66-3	< 1	1	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 1	1	1
10335	1,2-Dichloroethane	107-06-2	< 1	1	1
10335	1,1-Dichloroethene	75-35-4	< 1	1	1
10335	cis-1,2-Dichloroethene	156-59-2	< 1	1	1
10335	trans-1,2-Dichloroethene	156-60-5	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	< 1	1	1
10335	Methylene Chloride	75-09-2	< 4	4	1
10335	Tetrachloroethene	127-18-4	< 1	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	1,1,1-Trichloroethane	71-55-6	< 1	1	1
10335	1,1,2-Trichloroethane	79-00-5	< 1	1	1
10335	Trichloroethene	79-01-6	< 1	1	1
10335	Trichlorofluoromethane	75-69-4	< 1	1	1
10335	Vinyl Chloride	75-01-4	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	8260 VOCs	SW-846 8260B	1	N143081AA	11/04/2014 13:26	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N143081AA	11/04/2014 13:26	Linda C Pape	1

REVISED

Quality Control Summary

Client Name: Kleinfelder Group Number: 1515586
Reported: 11/10/14 at 08:35 AM

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

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: N143081AA	Sample number(s): 7660109-7660110,7660113-7660114							
Benzene	< 1	1.	ug/l	100	102	78-120	2	30
Carbon Tetrachloride	< 1	1.	ug/l	97	99	74-130	2	30
Chlorobenzene	< 1	1.	ug/l	99	102	80-120	2	30
Chloroethane	< 1	1.	ug/l	77	80	56-120	3	30
Chloroform	< 1	1.	ug/l	97	98	80-122	1	30
1,2-Dichlorobenzene	< 5	5.	ug/l	95	96	80-120	2	30
1,1-Dichloroethane	< 1	1.	ug/l	95	98	80-120	3	30
1,2-Dichloroethane	< 1	1.	ug/l	95	96	65-135	2	30
1,1-Dichloroethene	< 1	1.	ug/l	98	100	76-124	2	30
cis-1,2-Dichloroethene	< 1	1.	ug/l	99	103	80-120	3	30
trans-1,2-Dichloroethene	< 1	1.	ug/l	100	102	80-120	2	30
Ethylbenzene	< 1	1.	ug/l	95	98	79-120	3	30
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	90	91	75-120	2	30
Methylene Chloride	< 4	4.	ug/l	98	98	80-120	0	30
Tetrachloroethene	< 1	1.	ug/l	101	104	80-120	3	30
Toluene	< 1	1.	ug/l	99	103	80-120	4	30
1,1,1-Trichloroethane	< 1	1.	ug/l	91	94	66-126	3	30
1,1,2-Trichloroethane	< 1	1.	ug/l	100	102	80-120	2	30
Trichloroethene	< 1	1.	ug/l	99	101	80-120	2	30
Trichlorofluoromethane	< 1	1.	ug/l	88	85	58-135	3	30
Vinyl Chloride	< 1	1.	ug/l	83	86	63-120	3	30
Xylene (Total)	< 1	1.	ug/l	95	98	80-120	3	30
Batch number: N143102AA	Sample number(s): 7660109-7660112							
Benzene	< 1	1.	ug/l	104		78-120		
Carbon Tetrachloride	< 1	1.	ug/l	100		74-130		
Chlorobenzene	< 1	1.	ug/l	103		80-120		
Chloroethane	< 1	1.	ug/l	81		56-120		
Chloroform	< 1	1.	ug/l	102		80-122		
1,2-Dichlorobenzene	< 5	5.	ug/l	96		80-120		
1,1-Dichloroethane	< 1	1.	ug/l	99		80-120		
1,2-Dichloroethane	< 1	1.	ug/l	98		65-135		
1,1-Dichloroethene	< 1	1.	ug/l	99		76-124		
cis-1,2-Dichloroethene	< 1	1.	ug/l	104		80-120		
trans-1,2-Dichloroethene	< 1	1.	ug/l	105		80-120		
Ethylbenzene	< 1	1.	ug/l	98		79-120		
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	91		75-120		
Methylene Chloride	< 4	4.	ug/l	102		80-120		
Tetrachloroethene	< 1	1.	ug/l	103		80-120		
Toluene	< 1	1.	ug/l	102		80-120		
1,1,1-Trichloroethane	< 1	1.	ug/l	87		66-126		
1,1,2-Trichloroethane	< 1	1.	ug/l	103		80-120		
Trichloroethene	< 1	1.	ug/l	103		80-120		

*- 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.

REVISED

Quality Control Summary

Client Name: Kleinfelder Group Number: 1515586
Reported: 11/10/14 at 08:35 AM

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Trichlorofluoromethane	< 1	1.	ug/l	92		58-135		
Vinyl Chloride	< 1	1.	ug/l	86		63-120		
Xylene (Total)	< 1	1.	ug/l	97		80-120		

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: N143102AA	Sample number(s): 7660109-7660112 UNSPK: P656789								
Benzene	111	111	72-134	0	30				
Carbon Tetrachloride	113	113	75-148	0	30				
Chlorobenzene	110	110	87-124	0	30				
Chloroethane	94	89	55-130	5	30				
Chloroform	108	109	81-134	1	30				
1,2-Dichlorobenzene	100	102	84-119	2	30				
1,1-Dichloroethane	106	107	84-129	1	30				
1,2-Dichloroethane	104	105	63-142	0	30				
1,1-Dichloroethene	110	112	79-137	2	30				
cis-1,2-Dichloroethene	111	112	80-141	1	30				
trans-1,2-Dichloroethene	113	115	86-131	1	30				
Ethylbenzene	106	107	71-134	1	30				
Methyl Tertiary Butyl Ether	92	94	72-126	3	30				
Methylene Chloride	106	107	78-133	1	30				
Tetrachloroethene	116	114	80-128	2	30				
Toluene	112	111	80-125	0	30				
1,1,1-Trichloroethane	95	95	69-140	1	30				
1,1,2-Trichloroethane	108	107	71-141	1	30				
Trichloroethene	111	113	88-133	1	30				
Trichlorofluoromethane	108	106	63-163	2	30				
Vinyl Chloride	100	99	66-133	1	30				
Xylene (Total)	105	106	79-125	1	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 VOCs
Batch number: N143081AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7660109	95	99	100	93
7660110	94	101	100	92
7660113	100	104	99	90
7660114	100	103	98	90
Blank	99	103	99	91
LCS	98	101	102	98
LCSD	98	101	102	98

*- 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.

REVISED

Quality Control Summary

Client Name: Kleinfelder Group Number: 1515586
Reported: 11/10/14 at 08:35 AM

Surrogate Quality Control

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

Analysis Name: 8260 VOCs
Batch number: N143102AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7660111	102	106	99	89
7660112	102	107	99	89
Blank	102	105	99	90
LCS	99	102	103	98
MS	98	102	105	98
MSD	99	103	103	97
Limits:	80-116	77-113	80-113	78-113

*- 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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: 1515586 Sample #: 7660109-15

Client:	Fairfax Petroleum	Acct. #:	
Project Name/#:	Great Falls	PWSID #:	
Project Manager:	Mark C. Steele	P.O. #:	51141-299197
Sampler:	Tim Boswell	Quote #:	
Name of State where samples were collected:		Virginia	

Matrix: Potable / NPDES

Analyses Requested — Preservation Codes: H

For Lab Use Only — FSC: — SCR#:

Preservation Codes: H=HCl T=Thiosulfate N=HNO3 B=NaOH S=H2SO4 O=Other

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total # of Containers	26140 VPDES List								Remarks	Temperature of samples upon receipt (if requested)
Influent	11/3/14	0945	X			X		3	X								cooler	
Air Stripper Effluent	11/3/14	0950	X			X		3	X									
LGAC1 Effluent	11/3/14	0955	X			X		3	X									
LGAC2 Effluent	11/3/14	1000	X			X		3	X									
LGAC3 Effluent	11/3/14	1005	X			X		3	X									
LGAC4 Effluent	11/3/14	1010	X			X		3	X									

Turnaround Time Requested (TAT) (please circle): Normal Rush (circled)

(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: 3 day TAT

Rush results requested by (please circle): Phone Fax E-mail (circled)

Phone #: Fax #:

E-mail address: mcsteele@kleinfelder.com

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
[signature]	11/3/14	1330	custody	11/3/14	1330
[signature]	11/3/14	1330	[signature]	11/3/14	13:30
[signature]	11/3/14	15:55			
			[signature]	11/3/14	1555

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

1of1

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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 limit of quantitation, 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 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 ≥ 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 ≥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.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

November 24, 2014

Project: Fairfax 26140

Submittal Date: 11/19/2014
Group Number: 1519865
PO Number: 51141-301820
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
LGAC4 Effluent Grab Water	7681813

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

ELECTRONIC COPY TO	Kleinfelder	Attn: Mark Steele
ELECTRONIC COPY TO	Kleinfelder	Attn: Venelda Williams
ELECTRONIC COPY TO	Kleinfelder	Attn: Jennifer Kozak
ELECTRONIC COPY TO	Kleinfelder	Attn: Nathan Stevens
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: LGAC4 Effluent Grab Water
Great Falls, VA
Fairfax 26140

LL Sample # WW 7681813
LL Group # 1519865
Account # 12152

Project Name: Fairfax 26140

Collected: 11/18/2014 11:45 by PW

Submitted: 11/19/2014 16:05
Reported: 11/24/2014 22:15

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

LGAC4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10945	Benzene	71-43-2	< 1	1	1
10945	Ethylbenzene	100-41-4	< 1	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	< 1	1	1
10945	Toluene	108-88-3	< 1	1	1
10945	Xylene (Total)	1330-20-7	< 1	1	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
10945	UST BTEX, MTBE in Water	SW-846 8260B	1	F143263AA	11/23/2014 00:02	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F143263AA	11/23/2014 00:02	Anita M Dale	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1519865
Reported: 11/24/14 at 10:15 PM

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

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F143263AA	Sample number(s): 7681813							
Benzene	< 1	1.	ug/l	95		78-120		
Ethylbenzene	< 1	1.	ug/l	95		79-120		
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	94		75-120		
Toluene	< 1	1.	ug/l	96		80-120		
Xylene (Total)	< 1	1.	ug/l	92		80-120		

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: F143263AA	Sample number(s): 7681813 UNSPK: P680864								
Benzene	103	104	72-134	1	30				
Ethylbenzene	108	108	71-134	0	30				
Methyl Tertiary Butyl Ether	99	102	72-126	3	30				
Toluene	109	106	80-125	2	30				
Xylene (Total)	105	105	79-125	0	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: UST BTEX, MTBE in Water
Batch number: F143263AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7681813	94	101	109	101
Blank	93	99	108	100
LCS	93	102	108	102
MS	92	100	110	104
MSD	93	103	109	103
Limits:	80-116	77-113	80-113	78-113

*- 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: 1519865
Reported: 11/24/14 at 10:15 PM

*- 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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: _____ Sample #: _____
1519865 7681813

(2)

Client:	Fairfax Petroleum	Acct. #:	
Project Name/#:	Great Falls	PWSID #:	
Project Manager:	Mark C. Steele	P.O. #:	51141301820
Sampler:	Paxton Wertz	Quote #:	
Name of State where samples were collected:	Virginia		

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Other	Total # of Containers	Analyses Requested: BTEX/MTBE (8260)	Preservation Codes: H	Remarks
LGAC4 Effluent	11/18/14	1145	X			X		3	X		

Matrix: Potable, NPDES

Preservation Codes: H=HCl T=Thiosulfate N=HNO3 B=NaOH S=H2SO4 O=Other

Temperature of samples upon receipt (if requested)

For Lab Use Only
FSC: _____
SCR#:

Turnaround Time Requested (TAT) (please circle): (Normal) Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed: _____
Rush results requested by (please circle): Phone Fax (E-mail)
Phone #: _____ Fax #: _____
E-mail address: mcsteele@kleinfelder.com

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 triplecate volume)
Internal COC required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
	11/19/14	0850	Sample Storage	11/19/14	0850
	11/19/14	13:10		11/19/14	13:10
	11/19/14	16:00			
				11/19/14	16:05

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

eurofins | Lancaster Laboratories Environmental

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 limit of quantitation, 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 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 ≥ 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 ≥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.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

December 15, 2014

Project: Fairfax 26140

Submittal Date: 12/09/2014
Group Number: 1524135
PO Number: 51141-301820
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
LGAC5 Effluent Grab Water	7703969

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

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ELECTRONIC COPY TO	Kleinfelder	Attn: Nathan Stevens
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: LGAC5 Effluent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7703969
LL Group # 1524135
Account # 12152

Project Name: Fairfax 26140

Collected: 12/08/2014 14:15 by PW

Submitted: 12/09/2014 16:40
Reported: 12/15/2014 18:54

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

LGAC5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10335	Benzene	71-43-2	< 1	1	1
10335	Carbon Tetrachloride	56-23-5	< 1	1	1
10335	Chlorobenzene	108-90-7	< 1	1	1
10335	Chloroethane	75-00-3	< 1	1	1
10335	Chloroform	67-66-3	< 1	1	1
10335	1,2-Dichlorobenzene	95-50-1	< 5	5	1
10335	1,1-Dichloroethane	75-34-3	< 1	1	1
10335	1,2-Dichloroethane	107-06-2	< 1	1	1
10335	1,1-Dichloroethene	75-35-4	< 1	1	1
10335	cis-1,2-Dichloroethene	156-59-2	< 1	1	1
10335	trans-1,2-Dichloroethene	156-60-5	< 1	1	1
10335	Ethylbenzene	100-41-4	< 1	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	< 1	1	1
10335	Methylene Chloride	75-09-2	< 4	4	1
10335	Tetrachloroethene	127-18-4	< 1	1	1
10335	Toluene	108-88-3	< 1	1	1
10335	1,1,1-Trichloroethane	71-55-6	< 1	1	1
10335	1,1,2-Trichloroethane	79-00-5	< 1	1	1
10335	Trichloroethene	79-01-6	< 1	1	1
10335	Trichlorofluoromethane	75-69-4	< 1	1	1
10335	Vinyl Chloride	75-01-4	< 1	1	1
10335	Xylene (Total)	1330-20-7	< 1	1	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
10335	8260 VOCs	SW-846 8260B	1	T143481AA	12/14/2014 18:18	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T143481AA	12/14/2014 18:18	Sarah A Guill	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1524135
Reported: 12/15/14 at 06:54 PM

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

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: T143481AA	Sample number(s): 7703969							
Benzene	< 1	1.	ug/l	103	107	78-120	4	30
Carbon Tetrachloride	< 1	1.	ug/l	97	98	74-130	1	30
Chlorobenzene	< 1	1.	ug/l	99	100	80-120	1	30
Chloroethane	< 1	1.	ug/l	95	101	56-120	6	30
Chloroform	< 1	1.	ug/l	103	106	80-122	2	30
1,2-Dichlorobenzene	< 5	5.	ug/l	95	98	80-120	3	30
1,1-Dichloroethane	< 1	1.	ug/l	97	99	80-120	2	30
1,2-Dichloroethane	< 1	1.	ug/l	97	99	65-135	2	30
1,1-Dichloroethene	< 1	1.	ug/l	94	96	76-124	3	30
cis-1,2-Dichloroethene	< 1	1.	ug/l	99	104	80-120	5	30
trans-1,2-Dichloroethene	< 1	1.	ug/l	99	103	80-120	4	30
Ethylbenzene	< 1	1.	ug/l	94	98	79-120	4	30
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	97	99	75-120	2	30
Methylene Chloride	< 4	4.	ug/l	102	104	80-120	2	30
Tetrachloroethene	< 1	1.	ug/l	94	100	80-120	6	30
Toluene	< 1	1.	ug/l	94	98	80-120	4	30
1,1,1-Trichloroethane	< 1	1.	ug/l	95	98	66-126	3	30
1,1,2-Trichloroethane	< 1	1.	ug/l	96	98	80-120	2	30
Trichloroethene	< 1	1.	ug/l	101	105	80-120	4	30
Trichlorofluoromethane	< 1	1.	ug/l	79	82	58-135	4	30
Vinyl Chloride	< 1	1.	ug/l	84	86	63-120	2	30
Xylene (Total)	< 1	1.	ug/l	95	98	80-120	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 VOCs
Batch number: T143481AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7703969	100	99	97	90
Blank	106	102	97	93
LCS	106	103	94	94
LCSD	107	105	97	93
Limits:	80-116	77-113	80-113	78-113

*- 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: 1524135
Reported: 12/15/14 at 06:54 PM

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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: 152435 Sample #: 7703969

(1)

Client: Fairfax Petroleum | Acct. #:
Project Name/#: 26140 Great Falls, VA | PWSID #:
Project Manager: Mark C. Steele | P.O. #: 51141-301820
Sampler: Paxton Wentz | Quote #:
Name of State where samples were collected: Virginia

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Potable Water	Matrix: NPDES Water	Matrix: Other	Total # of Containers	Analyses Requested / Preservation Codes: H / 26140 VPDES List	Remarks
LGAC5 Effluent	12/8/14	1415	X				X		3	X	

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO3 B=NaOH
S=H2SO4 O=Other

Temperature of samples upon receipt (if requested)

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

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 triplecate volume)
Internal COC required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
	12/8/14	1930	Sample Storage	12/8/14	1930
Sample Storage	12/9/14	12:11			
	12/9/14	16:40			
				12/9/14	1640

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

eurofins | Lancaster Laboratories Environmental

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 limit of quantitation, 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 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 ≥ 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 ≥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.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

December 15, 2014

Project: Fairfax 26140

Submittal Date: 12/09/2014
Group Number: 1524136
PO Number: 51141-301820
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
Influent Grab Water	7703970
Air Stripper Effluent Grab Water	7703971

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

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ELECTRONIC COPY TO	Kleinfelder	Attn: Nathan Stevens
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: Influent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7703970
LL Group # 1524136
Account # 12152

Project Name: Fairfax 26140

Collected: 12/08/2014 14:25 by PW

Submitted: 12/09/2014 16:40
Reported: 12/15/2014 22:14

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FXINF

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	< 10	10	10
10945	Ethylbenzene	100-41-4	< 10	10	10
10945	**Methyl Tertiary Butyl Ether**	1634-04-4	**12,000**	100	100
10945	Toluene	108-88-3	< 10	10	10
10945	Xylene (Total)	1330-20-7	< 10	10	10

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
10945	UST BTEX, MTBE in Water	SW-846 8260B	1	P143441AA	12/10/2014 18:19	Daniel H Heller	10
10945	UST BTEX, MTBE in Water	SW-846 8260B	1	P143441AA	12/10/2014 18:47	Daniel H Heller	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P143441AA	12/10/2014 18:19	Daniel H Heller	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	P143441AA	12/10/2014 18:47	Daniel H Heller	100

Sample Description: Air Stripper Effluent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7703971
LL Group # 1524136
Account # 12152

Project Name: Fairfax 26140

Collected: 12/08/2014 14:20 by PW

Submitted: 12/09/2014 16:40
Reported: 12/15/2014 22:14

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FXASE

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	< 1	1	1
10945	Ethylbenzene	100-41-4	< 1	1	1
10945	**Methyl Tertiary Butyl Ether**	1634-04-4	**890**	1	1
10945	Toluene	108-88-3	< 1	1	1
10945	Xylene (Total)	1330-20-7	< 1	1	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
10945	UST BTEX, MTBE in Water	SW-846 8260B	1	P143441AA	12/10/2014 19:16	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P143441AA	12/10/2014 19:16	Daniel H Heller	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1524136
Reported: 12/15/14 at 10:14 PM

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

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: P143441AA	Sample number(s): 7703970-7703971							
Benzene	< 1	1.	ug/l	84		78-120		
Ethylbenzene	< 1	1.	ug/l	93		79-120		
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	90		75-120		
Toluene	< 1	1.	ug/l	94		80-120		
Xylene (Total)	< 1	1.	ug/l	93		80-120		

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: P143441AA	Sample number(s): 7703970-7703971 UNSPK: P700353								
Benzene	92	101	72-134	9	30				
Ethylbenzene	100	107	71-134	7	30				
Methyl Tertiary Butyl Ether	93	100	72-126	7	30				
Toluene	102	109	80-125	7	30				
Xylene (Total)	101	108	79-125	6	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: UST BTEX, MTBE in Water
Batch number: P143441AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7703970	95	95	105	97
7703971	95	95	106	98
Blank	94	96	106	98
LCS	95	98	106	97
MS	95	97	106	98
MSD	94	99	107	98
Limits:	80-116	77-113	80-113	78-113

*- 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: 1524136
Reported: 12/15/14 at 10:14 PM

*- 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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: 152413G Sample #: 7703970-71 (1)

Client:	Fairfax Petroleum	Acct. #:	
Project Name/#:	26140 Great Falls, VA	PWSID #:	
Project Manager:	Mark C. Steele	P.O. #:	51141-301820
Sampler:	Paxton Wertz	Quote #:	
Name of State where samples were collected:	Virginia		

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Other	Total # of Containers	Analyses Requested: BTEX / MTBE (8260)	Preservation Codes: H	Remarks
Influent	12/8/14	1425	X			X		3	X		
Air Stripper Effluent	12/8/14	1420	X			X		3	X		

Matrix: Potable, NPDES

For Lab Use Only
FSC:
SCR#:

Preservation Codes: H=HCl T=Thiosulfate N=HNO3 B=NaOH S=H2SO4 O=Other

Temperature of samples upon receipt (if requested)

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

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 triplecate volume)
Internal COC required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	12/8/14	1930	Sample Storage	12/8/14	1930
Sample Room	12/9/14	13:11	[signature]	12/9/14	13:11
[signature]	12/9/14	16:40			
			[signature]	12/9/14	1640

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

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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 limit of quantitation, 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 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 ≥ 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 ≥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.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

December 29, 2014

Project: Fairfax 26140

Submittal Date: 12/18/2014
Group Number: 1526841
PO Number: 51141-301820
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
LGAC5 Effluent Grab Water	7719094

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

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ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: LGAC5 Effluent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7719094
LL Group # 1526841
Account # 12152

Project Name: Fairfax 26140

Collected: 12/17/2014 12:45

Submitted: 12/18/2014 16:55
Reported: 12/29/2014 17:54

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

5LGAC

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	< 1	1	1
10945	Ethylbenzene	100-41-4	< 1	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	< 1	1	1
10945	Toluene	108-88-3	< 1	1	1
10945	Xylene (Total)	1330-20-7	< 1	1	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
10945	UST BTEX, MTBE in Water	SW-846 8260B	1	F143612AA	12/27/2014 10:47	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F143612AA	12/27/2014 10:47	Anita M Dale	1

Quality Control Summary

Client Name: Kleinfelder Group Number: 1526841
Reported: 12/29/14 at 05:54 PM

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

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F143612AA	Sample number(s): 7719094							
Benzene	< 1	1.	ug/l	99		78-120		
Ethylbenzene	< 1	1.	ug/l	92		79-120		
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	80		75-120		
Toluene	< 1	1.	ug/l	95		80-120		
Xylene (Total)	< 1	1.	ug/l	90		80-120		

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: F143612AA	Sample number(s): 7719094 UNSPK: P718896								
Benzene	111	104	72-134	4	30				
Ethylbenzene	100	99	71-134	1	30				
Methyl Tertiary Butyl Ether	78	83	72-126	2	30				
Toluene	114	111	80-125	1	30				
Xylene (Total)	98	94	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: UST BTEX, MTBE in Water
Batch number: F143612AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7719094	94	102	101	98
Blank	97	104	104	98
LCS	95	81	104	99
MS	91	105	106	97
MSD	91	101	106	96
Limits:	80-116	77-113	80-113	78-113

*- 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.

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Quality Control Summary

Client Name: Kleinfelder Group Number: 1526841
Reported: 12/29/14 at 05:54 PM

*- 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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: 152641 Sample #: 719094

Client:	Fairfax Petroleum	Acct. #:	
Project Name/#:	Great Falls	PWSID #:	
Project Manager:	Mark C. Steele	P.O. #:	51141-301820
Sampler:		Quote #:	
Name of State where samples were collected:	Virginia		

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (Potable)	Matrix: Water (NPDES)	Matrix: Other	Total # of Containers	Analyses Requested: BTEX + MTBE	Remarks
LGAC5 Effluent	12/17/14	1245	X			X			3	X	

Preservation Codes: H=HCl T=Thiosulfate N=HNO3 B=NaOH S=H2SO4 O=Other

Temperature of samples upon receipt (if requested)

For Lab Use Only
FSC:
SCR#:

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

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
1		12/17/14	1700		12/18/14	11:15
2		12/18/14	16:51			
3						
4						
5						
6					12/18/14	1655

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

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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 limit of quantitation, 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 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 ≥ 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 ≥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.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

January 08, 2015

Project: Fairfax 26140

Submittal Date: 12/30/2014
Group Number: 1528470
PO Number: 51141-301820
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
Influent Grab Water	7727511

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

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ELECTRONIC COPY TO	Kleinfelder	Attn: Venelda Williams
ELECTRONIC COPY TO	Kleinfelder	Attn: Jennifer Kozak
ELECTRONIC COPY TO	Kleinfelder	Attn: Nathan Stevens
ELECTRONIC COPY TO	Kleinfelder	Attn: Paxton Wertz

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: Influent Grab Water
Fairfax Petroleum 26140

LL Sample # WW 7727511
LL Group # 1528470
Account # 12152

Project Name: Fairfax 26140

Collected: 12/29/2014 11:30 by TB

Submitted: 12/30/2014 18:15
Reported: 01/08/2015 21:41

Kleinfelder
550 West C Street, Suite 1200
San Diego CA 92101

FGFIN

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	**Benzene**	71-43-2	**4**	1	1
10945	Ethylbenzene	100-41-4	< 1	1	1
10945	**Methyl Tertiary Butyl Ether**	1634-04-4	**8,700**	50	50
10945	Toluene	108-88-3	< 1	1	1
10945	**Xylene (Total)**	1330-20-7	**2**	1	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
10945	UST BTEX, MTBE in Water	SW-846 8260B	1	F150061AA	01/06/2015 16:11	Anita M Dale	1
10945	UST BTEX, MTBE in Water	SW-846 8260B	1	P150071AA	01/07/2015 13:36	Anita M Dale	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150061AA	01/06/2015 16:11	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	P150071AA	01/07/2015 13:36	Anita M Dale	50

Quality Control Summary

Client Name: Kleinfelder Group Number: 1528470
Reported: 01/08/15 at 09:41 PM

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

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F150061AA	Sample number(s): 7727511							
Benzene	< 1	1.	ug/l	94		78-120		
Ethylbenzene	< 1	1.	ug/l	92		79-120		
Toluene	< 1	1.	ug/l	93		80-120		
Xylene (Total)	< 1	1.	ug/l	94		80-120		
Batch number: P150071AA	Sample number(s): 7727511							
Methyl Tertiary Butyl Ether	< 1	1.	ug/l	85		75-120		

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: F150061AA	Sample number(s): 7727511 UNSPK: P727209								
Benzene	97	99	72-134	2	30				
Ethylbenzene	96	97	71-134	1	30				
Toluene	96	98	80-125	3	30				
Xylene (Total)	97	98	79-125	1	30				
Batch number: P150071AA	Sample number(s): 7727511 UNSPK: P727864								
Methyl Tertiary Butyl Ether	90	87	72-126	4	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: UST BTEX, MTBE in Water
Batch number: F150061AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7727511	101	95	99	97
Blank	102	97	97	95
LCS	100	100	99	98
MS	101	97	98	97
MSD	100	97	97	96

*- 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: 1528470
Reported: 01/08/15 at 09:41 PM

Surrogate Quality Control

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

*- 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.

Lancaster Laboratories

Analysis Request/Environmental Services Chain of Custody

For Lancaster Laboratories use only Acct. #: 12152
Group #: 1528478 Sample #: 7723757
12/30/14

Client:	Fairfax Petroleum
Acct. #:	
Project Name/#:	Great Falls
PWSID #:	
Project Manager:	Mark C. Steele
P.O. #:	51141-301820
Sampler:	Tim Boswell
Quote #:	
Name of State where samples were collected:	Virginia

Matrix: Soil / Water (Potable, NPDES) / Other

Analyses Requested — Preservation Codes: H

Preservation Codes: H=HCl, T=Thiosulfate, N=HNO3, B=NaOH, S=H2SO4, O=Other

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total # of Containers	BTEX + MTBE (8260)	Remarks	Temperature of samples upon receipt (if requested)
Influent	12/29/14	1130	X			X		3	X	cooler	

For Lab Use Only
FSC:
SCR#:

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
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
[signature]	12/29/14	1430	cooler/room	12/29/14	1430
cooler/room	12/30/14	1411	[signature]	12/30/14	1411
[signature]	12/30/14	1810			
			[signature]	12/30/14	1815

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

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

1 of 1

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Explanation of Symbols and Abbreviations

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RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
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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 limit of quantitation, 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 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 ≥ 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 ≥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
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Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

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

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