



VIA ELECTRONIC MAIL

February 4, 2011

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

**RE: Fourth Quarter 2010 Post Site Characterization Monitoring Report
Fairfax Facility # 26140
9901 Georgetown Pike
Great Falls, Fairfax County, Virginia
PC# 2010-3028**

Dear Mr. Kochan:

Kleinfelder, on behalf of Fairfax Petroleum Realty, LLC (Fairfax), is submitting this Post Site Characterization Monitoring Report (PSCR) for the above-referenced facility.

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

Sincerely,
Kleinfelder East, Inc.

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

Charlie Low
Environmental Scientist

A handwritten signature in black ink that reads "Mark C. Steele".

Mark C. Steele
Senior Project Manager

Attachment

cc: Mr. Monty Berhane – Fairfax Petroleum Realty, LLC



**FOURTH QUARTER 2010
POST SITE CHARACTERIZATION MONITORING REPORT
Fairfax Petroleum Facility # 26140
9901 Georgetown Pike
Great Falls, Fairfax County, Virginia**

REGULATORY INFORMATION

Regulatory Agency:	Virginia Department of Environmental Quality (VADEQ)
Agency Contact:	Mr. Kurt Kochan
Pollution Complaint No.:	2010-3028
Current Case Status:	Post Site Characterization Monitoring
Reporting Period:	Fourth Quarter 2010
Last Report:	Post Site Characterization Monitoring Report, October 2010

GENERAL SITE INFORMATION

Fairfax Petroleum Realty Contact:	Mr. Monty Berhane
Consultant Contact:	Mr. Mark Steele
Facility Status:	Active branded Exxon retail service station with auto repair facilities.
Area Property Use:	See Area Map (Figure 1)
Monitoring Wells:	MW-1 through MW-3, MW-5, MW-6S, MW-6D, MW-7 through MW-9, MW-10, MW-11, and PW-1
Site Geology:	Silts and sands underlain by structured saprolite and schist
Surficial Groundwater Flow Direction:	Southeast

ACTIVITIES COMPLETED THIS PERIOD

December 16, 2010 – Groundwater Gauging/Sampling

Wells Gauged/Sampled:	MW-1 through MW-3, MW-5, MW-6S, MW-6D (3 intervals), MW-7 through MW-11, and PW-1 (3 intervals)
Liquid Phase Hydrocarbon:	None detected
Minimum/Maximum Depth to Water:	22.82 (MW-6S) / 34.73 (MW-9) feet
Hydraulic Gradient:	0.018 ft/ft between MW-5 and MW-8
Groundwater Flow Direction:	Southeast

On December 16, 2010, Kleinfelder personnel gauged and collected groundwater samples from monitoring wells in the groundwater monitoring network, with the exception of monitoring wells MW-2 and MW-3. Monitoring well MW-2 was covered by a vehicle that could not be moved and monitoring well MW-3 was dry. After sampling, the groundwater samples were submitted under chain of custody protocol to Lancaster Laboratories of Lancaster, Pennsylvania for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) using Environmental Protection Agency (EPA) Method 8260B and Total Petroleum Hydrocarbon – Gasoline Range Organics (TPH-GRO) using EPA Method 8015B. Groundwater monitoring and analytical data is summarized in **Table 1** and depicted on **Figure 2**. The Laboratory Analysis Report is attached as **Appendix A**.

Monitoring wells MW-6D and PW-1 (the former station potable well) were each sampled at three different intervals (65 feet, 85 feet and 105 feet below grade) using low-flow technology, as requested by the VADEQ in the December 10, 2009 directive letter. After lowering the decontaminated pump to the specified sampling interval, low-flow pumping began and the water was monitored for pH, temperature and dissolved oxygen. Upon observing stabilized parameters, samples were collected and submitted for laboratory analysis as detailed above.

OFF-SITE ACCESS REQUESTS

At the direction of the VADEQ, Kleinfelder, on behalf of Fairfax Petroleum Realty, has attempted to negotiate agreements and has been denied access by the owners / managers of the following properties:

- 737 Walker Road, Great Falls, Virginia. Property is located to the northeast of the site;
- 746 Walker Road, Great Falls, Virginia. Property is located to the south/southwest of the site;
- 748 Walker Road, Great Falls, Virginia. Property is located to the south of the site; and
- 9829 Georgetown Pike, Great Falls, Virginia. Property is located to the east/southeast of the site.

At the time of this report, access had been granted to install a bedrock monitoring well at the Leo Santaballa Park (9830 Georgetown Pike) northeast of the site. The details of the well installation will be submitted with the Post Site Characterization Monitoring Report for the first quarter of 2011.

LIMITATIONS

This work was performed in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services are provided. Our conclusions, opinions and recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no other representation, guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

FIGURES AND TABLE:

- Figure 1: Local Area Map
Figure 2: Hydrocarbon Distribution / Groundwater Contour Map
(December 16, 2010)
- Table 1: Groundwater Monitoring & Analytical Data

APPENDICES:

Appendix A: Laboratory Analysis Report – (December 16, 2010)

Prepared By:
Kleinfelder East, Inc.



Charlie Low
Environmental Scientist



Mark C. Steele
Senior Project Manager

FIGURES

Legend

-  Site Location
-  1500-ft Site Radius



G:\Projects\26140_Great Falls\GIS\26140_LAM_022210.mxd

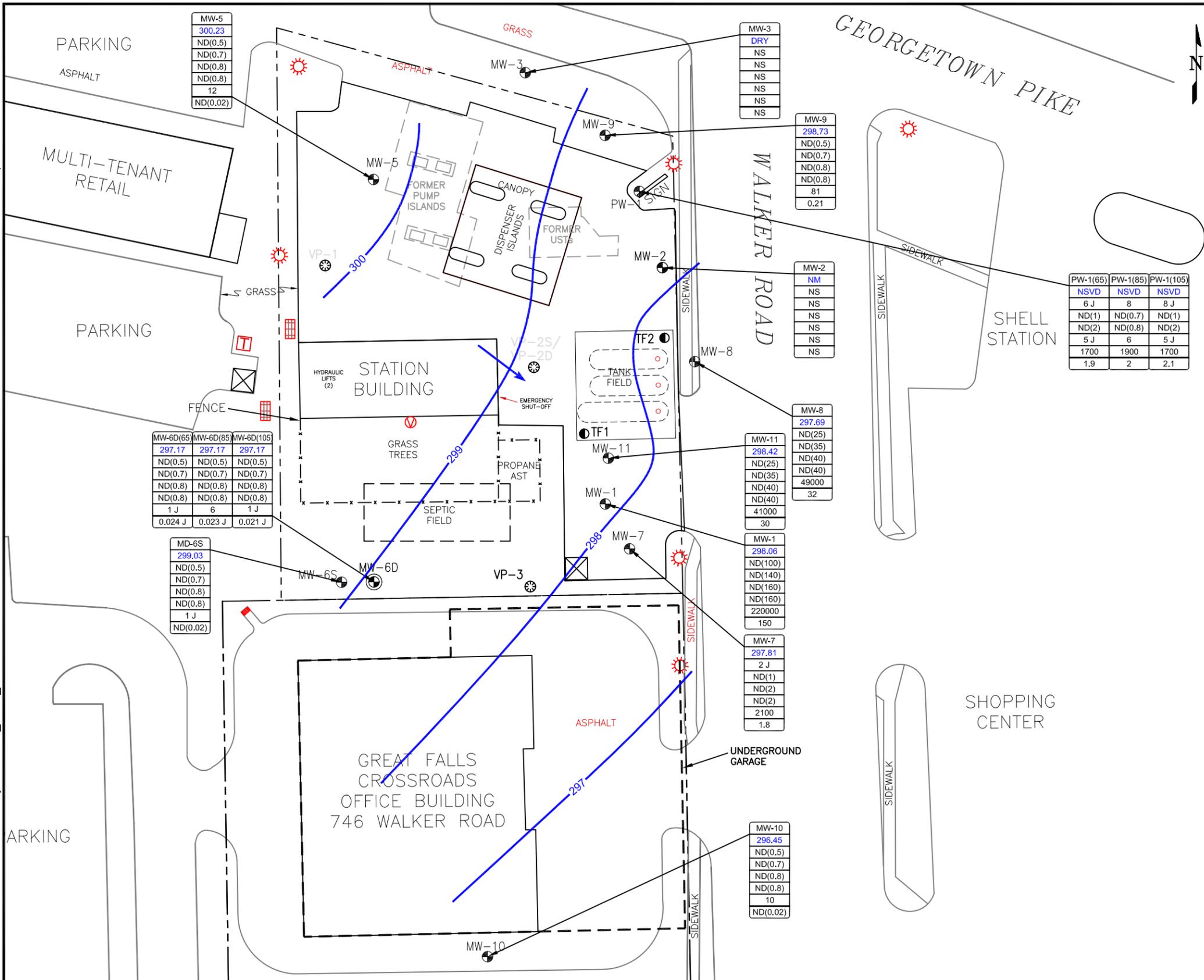
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PROJECT NO.	109816
DRAWN:	07/27/10
DRAWN BY:	AJP
CHECKED BY:	MCS
FILE NAME:	26140_LAM_022210.mxd

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

FIGURE
1



LEGEND

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

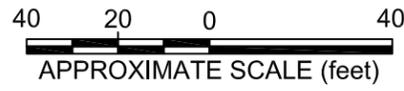
MONITORING WELL DATA TABLES:

MW-9
298.73
ND(0.5)
ND(0.7)
ND(0.8)
ND(0.8)
81
0.21

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

NOTES:
 MW-2, MW-3, MW-6D, AND PW-1 WERE NOT USED TO CALCULATE GROUNDWATER CONTOURS.
 MW-2 NOT GAUGED OR SAMPLED DURING DECEMBER 16, 2010 EVENT.
 MW-6D AND PW-1 WERE SAMPLED AT DIFFERENT INTERVALS. (FEET BELOW SURFACE IN PARENTHESES)

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PROJECT NO.	114992
DRAWN:	2/1/11
DRAWN BY:	BNM
CHECKED BY:	MCS
FILE NAME:	26140_HDMap_072610.dwg

**HYDROCARBON DISTRIBUTION/
GROUNDWATER CONTOUR MAP
DECEMBER 16, 2010**

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

TABLE

Table 1
Groundwater Monitoring & Analytical Data

Fairfax Facility #26140
 9901 Georgetown Pike
 Great Falls, Virginia

July 24, 2009 through December 16, 2010

Well ID	Date	Gauging Data					Analytical Data							Comments
		Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	
MW-1	07/24/2009	100.00	30.45	ND	ND	69.55	13.3	<1.0	0.53	ND	13.8	193000	105	
	08/18/2009	NM	NM	NM	NM	NM	ND(200)	ND(200)	ND(200)	ND(200)	BRL	138000	65.7	
	10/15/2009	328.99	31.88	ND	ND	297.11	ND(250)	ND(250)	ND(250)	ND(250)	BRL	139000	125	
	06/22/2010	328.99	28.65	ND	ND	300.34	ND(5)	ND(7)	ND(8)	ND(8)	BRL	13000	14	
	09/30/2010	328.99	31.11	ND	ND	297.88	ND(50)	ND(70)	ND(80)	110 J	110	240000	170	
	12/16/2010	328.99	30.93	ND	ND	298.06	ND(100)	ND(140)	ND(160)	ND(160)	BRL	220000	150	
MW-2	07/24/2009	102.90	33.19	ND	ND	69.71	70.2	8.0	1.0	ND	79.2	107000	59	
	08/18/2009	NM	NM	NM	NM	NM	ND(100)	ND(100)	ND(100)	ND(100)	BRL	87100	53.9	
	10/15/2009	332.05	34.41	ND	ND	297.64	ND(250)	ND(250)	ND(250)	ND(250)	BRL	122000	117	
	07/01/2010	332.05	31.63	ND	ND	300.42	ND(100)	91.3 J	ND(100)	ND(100)	91.3	52400	42.7	
	09/30/2010	332.05	32.96	ND	ND	299.09	ND(25)	ND(35)	ND(40)	ND(40)	BRL	37000	27	
	12/16/2010	332.05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	07/24/2009	104.99	33.67	ND	ND	71.32	<0.50	<1.0	<1.0	ND	BRL	5.7	NA	
	10/15/2009	333.98	34.51	ND	ND	299.47	NS	NS	NS	NS	NS	NS	NS	
	07/01/2010	333.98	32.39	ND	ND	301.59	ND(2)	ND(2)	ND(2)	ND(2)	BRL	1.9 J	0.499	
	09/30/2010	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	
	12/16/2010	333.98	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	
MW-5	07/24/2009	103.43	30.72	ND	ND	72.71	<0.50	<1.0	<1.0	ND	BRL	1.3	NA	
	08/18/2009	NM	NM	NM	NM	NM	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	0.48 J	ND(0.20)	
	10/15/2009	332.35	32.51	ND	ND	299.84	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	11.4	ND(0.20)	
	06/22/2010	332.35	29.40	ND	ND	302.95	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	ND(0.02)	
	09/30/2010	332.35	32.30	ND	ND	300.05	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	ND(0.02)	
	12/16/2010	332.35	32.12	ND	ND	300.23	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	12	ND(0.02)	
MW-6D(65)	06/22/2010	323.09	26.69	ND	ND	296.40	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	ND(0.02)	
	09/30/2010	323.09	26.52	ND	ND	296.57	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	ND(0.02)	
	12/16/2010	323.09	25.92	ND	ND	297.17	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	0.024 J	
MW-6D(85)	06/22/2010	323.09	26.69	ND	ND	296.40	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	0.023 J	
	09/30/2010	323.09	26.51	ND	ND	296.58	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	ND(0.02)	

Table 1 (Continued)
Groundwater Monitoring & Analytical Data

Fairfax Facility #26140

9901 Georgetown Pike

Great Falls, Virginia

July 24, 2009 through December 16, 2010

Well ID	Date	Gauging Data					Analytical Data							Comments
		Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	
MW-6D(85)	12/16/2010	323.09	25.92	ND	ND	297.17	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	6	0.023 J	
MW-6D(105)	06/22/2010	323.09	26.69	ND	ND	296.40	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	2 J	0.023 J	
	09/30/2010	323.09	26.52	ND	ND	296.57	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	0.021 J	
	12/16/2010	323.09	25.92	ND	ND	297.17	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	0.021 J	
MW-6S	09/24/2009	NM	NM	NM	NM	NM	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	2.8	NA	
	10/15/2009	321.85	23.35	ND	ND	298.50	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	3.1	ND(0.20)	
	06/22/2010	321.85	20.22	ND	ND	301.63	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	2 J	ND(0.02)	
	09/30/2010	321.85	23.00	ND	ND	298.85	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	0.9 J	ND(0.02)	
	12/16/2010	321.85	22.82	ND	ND	299.03	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1 J	ND(0.02)	
MW-7	10/15/2009	327.96	31.21	ND	ND	296.75	3.3 J	ND(10)	ND(10)	ND(10)	6.0	4720	10.5	
	06/22/2010	327.96	28.00	ND	ND	299.96	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	87	0.23	
	09/30/2010	327.96	30.24	ND	ND	297.72	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	ND(0.5)	ND(0.02)	
	12/16/2010	327.96	30.15	ND	ND	297.81	2 J	ND(1)	ND(2)	ND(2)	2	2100	1.8	
MW-8	10/15/2009	330.54	34.01	ND	ND	296.53	ND(500)	ND(500)	ND(500)	ND(500)	113.6	226000	207	
	06/22/2010	330.54	30.91	ND	ND	299.63	ND(5)	ND(7)	ND(8)	ND(8)	BRL	15000	14	
	09/30/2010	330.54	32.97	ND	ND	297.57	11 J	ND(14)	ND(16)	ND(16)	11	44000	31	
	12/16/2010	330.54	32.85	ND	ND	297.69	ND(25)	ND(35)	ND(40)	ND(40)	BRL	49000	32	
MW-9	10/15/2009	333.46	35.60	ND	ND	297.86	ND(1.0)	ND(1.0)	ND(1.0)	1.1	2.2	64.7	0.430	
	06/22/2010	333.46	32.32	ND	ND	301.14	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	22	0.076	
	09/30/2010	333.46	34.85	ND	ND	298.61	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	52	0.21	
	12/16/2010	333.46	34.73	ND	ND	298.73	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	81	0.21	
MW-10	10/15/2009	324.17	28.77	ND	ND	295.40	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	BRL	10.4	ND(0.20)	
	06/22/2010	324.17	25.80	ND	ND	298.37	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	4 J	ND(0.02)	
	12/16/2010	324.17	27.72	ND	ND	296.45	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	10	ND(0.02)	
MW-11	10/16/2009	NM	NM	NM	NM	NM	16.1	ND(10)	ND(10)	6.6	48.9	38400	35.6	
	06/22/2010	329.64	29.00	ND	ND	300.64	ND(50)	ND(70)	ND(80)	ND(80)	BRL	170000	150	
	09/30/2010	329.64	31.42	ND	ND	298.22	ND(50)	ND(70)	ND(80)	ND(80)	BRL	130000	93	
	12/16/2010	329.64	31.22	ND	ND	298.42	ND(25)	ND(35)	ND(40)	ND(40)	BRL	41000	30	

Table 1 (Continued)

Groundwater Monitoring & Analytical Data

Fairfax Facility #26140

9901 Georgetown Pike

Great Falls, Virginia

July 24, 2009 through December 16, 2010

Well ID	Date	Gauging Data					Analytical Data							Comments
		Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydrocarbon (feet)	Hydrocarbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	
PW-1	08/17/2009	NM	NM	NM	NM	NM	0.76	ND(0.50)	ND(0.50)	0.46 J	1.22	1320	NA	
	09/30/2010	NSVD	35.69	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	
	12/16/2010	NSVD	36.51	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	
PW-1(65)	10/16/2009	NM	NM	NM	NM	NM	8	ND	ND	8.4	16	250	0.00187	
	06/22/2010	NSVD	34.47	ND	ND	NSVD	8	ND(0.7)	ND(0.8)	7	15	1600	2.2	
	09/30/2010	NSVD	36.84	ND	ND	NSVD	9	ND(0.7)	ND(0.8)	5 J	14	1600	2	
	12/16/2010	NSVD	36.51	ND	ND	NSVD	6 J	ND(1)	ND(2)	5 J	11	1700	1.9	
PW-1(85)	06/22/2010	NSVD	34.47	ND	ND	NSVD	8	ND(0.7)	ND(0.8)	5	13	2000	2.4	
	09/30/2010	NSVD	36.85	ND	ND	NSVD	9	ND(0.7)	ND(0.8)	6	15	1700	2	
	12/16/2010	NSVD	36.51	ND	ND	NSVD	8	ND(0.7)	ND(0.8)	6	14	1900	2	
PW-1(105)	10/16/2009	NM	NM	NM	NM	NM	5.8	ND	ND	4.1	9.9	1180	0.00371	
	06/22/2010	NSVD	34.47	ND	ND	NSVD	5 J	ND(1)	ND(2)	3 J	8	2300	2.6	
	09/30/2010	NSVD	36.85	ND	ND	NSVD	9	ND(0.7)	ND(0.8)	5	14	1800	2	
	12/16/2010	NSVD	36.51	ND	ND	NSVD	8 J	ND(1)	ND(2)	5 J	13	1700	2.1	

Table 1 (Continued)
Groundwater Monitoring & Analytical Data

Fairfax Facility #26140
9901 Georgetown Pike
Great Falls, Virginia
July 24, 2009 through December 16, 2010

Notes:

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

**APPENDIX A:
Laboratory Analysis Report –
(December 16, 2010)**

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Kleinfelder
30 Porter Road
Littleton MA 01460

January 04, 2011

Project: Fairfax 26140

Submittal Date: 12/17/2010

Group Number: 1226130

PO Number: 08531-117575

State of Sample Origin: VA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
MW-1 Grab Water Sample	6168283
MW-5 Grab Water Sample	6168284
MW-6S Grab Water Sample	6168285
MW-6D (65 ft) Grab Water Sample	6168286
MW-6D (85 ft) Grab Water Sample	6168287
MW-6D (105 ft) Grab Water Sample	6168288
MW-7 Grab Water Sample	6168289
MW-8 Grab Water Sample	6168290
MW-9 Grab Water Sample	6168291
MW-10 Grab Water Sample	6168292
MW-11 Grab Water Sample	6168293
PW-01 (65 ft) Grab Water Sample	6168294
PW-01 (85 ft) Grab Water Sample	6168295
PW-01 (105 ft) Grab Water Sample	6168296
Trip Blank Water Sample	6168297

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

ELECTRONIC Kleinfelder
COPY TO
ELECTRONIC Kleinfelder
COPY TO

Attn: Mark Steele

Attn: Angela Vogt

Questions? Contact your Client Services Representative
Loran A Carter at (717) 656-2300 Ext. 1375

Respectfully Submitted,



Robin C. Runkle
Senior Specialist



Analysis Report

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

Sample Description: MW-1 Grab Water Sample
Fairfax 26140

LLI Sample # WW 6168283
LLI Group # 1226130
Account # 12152

Project Name: Fairfax 26140

Collected: 12/16/2010 11:15 by GM

Kleinfelder

30 Porter Road

Submitted: 12/17/2010 16:00

Littleton MA 01460

Reported: 01/04/2011 13:59

MW-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	100	200
10903	Ethylbenzene	100-41-4	N.D.	160	200
10903	Methyl Tertiary Butyl Ether	1634-04-4	220,000	1,000	2000
10903	Toluene	108-88-3	N.D.	140	200
10903	Xylene (Total)	1330-20-7	N.D.	160	200
GC Volatiles			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	150	1.0	50

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103562AA	12/22/2010 23:41	Frank A Valla, Jr	200
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103562AA	12/23/2010 00:05	Frank A Valla, Jr	2000
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T103562AA	12/22/2010 23:41	Frank A Valla, Jr	200
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T103562AA	12/23/2010 00:05	Frank A Valla, Jr	2000
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10362B20A	12/29/2010 04:55	Marie D John	50
01146	GC VOA Water Prep	SW-846 5030B	1	10362B20A	12/29/2010 04:55	Marie D John	50



Analysis Report

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

**Sample Description: MW-5 Grab Water Sample
Fairfax 26140**

**LLI Sample # WW 6168284
LLI Group # 1226130
Account # 12152**

Project Name: Fairfax 26140

Collected: 12/16/2010 13:30 by GM

Kleinfelder

30 Porter Road

Submitted: 12/17/2010 16:00

Littleton MA 01460

Reported: 01/04/2011 13:59

MW05-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	12	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	0.020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103562AA	12/22/2010 22:31	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T103562AA	12/22/2010 22:31	Frank A Valla, Jr	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10356A07A	12/23/2010 14:20	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10356A07A	12/23/2010 14:20	Marie D John	1



Analysis Report

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

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

LLI Sample # WW 6168285
LLI Group # 1226130
Account # 12152

Project Name: Fairfax 26140

Collected: 12/16/2010 10:25 by GM

Kleinfelder

30 Porter Road

Submitted: 12/17/2010 16:00

Littleton MA 01460

Reported: 01/04/2011 13:59

MW-6S

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103562AA	12/22/2010 19:23	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T103562AA	12/22/2010 19:23	Frank A Valla, Jr	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10356A07A	12/23/2010 01:13	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10356A07A	12/23/2010 01:13	Marie D John	1



Analysis Report

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

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

LLI Sample # WW 6168286
LLI Group # 1226130
Account # 12152

Project Name: Fairfax 26140

Collected: 12/16/2010 10:45 by GM

Kleinfelder
30 Porter Road
Littleton MA 01460

Submitted: 12/17/2010 16:00

Reported: 01/04/2011 13:59

6D-65

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103562AA	12/22/2010 20:33	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T103562AA	12/22/2010 20:33	Frank A Valla, Jr	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10356A07A	12/23/2010 01:39	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10356A07A	12/23/2010 01:39	Marie D John	1



Analysis Report

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

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

LLI Sample # WW 6168287
LLI Group # 1226130
Account # 12152

Project Name: Fairfax 26140

Collected: 12/16/2010 10:20 by GM

Kleinfelder

30 Porter Road

Submitted: 12/17/2010 16:00

Littleton MA 01460

Reported: 01/04/2011 13:59

6D-85

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	6	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B mg/l					
01635	TPH-GRO water C6-C10	n.a.	0.023 J	0.020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103562AA	12/22/2010 20:57	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T103562AA	12/22/2010 20:57	Frank A Valla, Jr	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10356A07A	12/23/2010 02:05	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10356A07A	12/23/2010 02:05	Marie D John	1



Analysis Report

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

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

LLI Sample # WW 6168288
LLI Group # 1226130
Account # 12152

Project Name: Fairfax 26140

Collected: 12/16/2010 10:00 by GM

Kleinfelder

30 Porter Road

Submitted: 12/17/2010 16:00

Littleton MA 01460

Reported: 01/04/2011 13:59

6D105

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103562AA	12/22/2010 21:20	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T103562AA	12/22/2010 21:20	Frank A Valla, Jr	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10356A07A	12/23/2010 02:30	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10356A07A	12/23/2010 02:30	Marie D John	1



Analysis Report

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

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

**LLI Sample # WW 6168289
LLI Group # 1226130
Account # 12152**

Project Name: Fairfax 26140

Collected: 12/16/2010 10:45 by GM

Kleinfelder

30 Porter Road

Submitted: 12/17/2010 16:00

Littleton MA 01460

Reported: 01/04/2011 13:59

MW07-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	2 J	1	2
10903	Ethylbenzene	100-41-4	N.D.	2	2
10903	Methyl Tertiary Butyl Ether	1634-04-4	2,100	10	20
10903	Toluene	108-88-3	N.D.	1	2
10903	Xylene (Total)	1330-20-7	N.D.	2	2
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	1.8	0.020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103562AA	12/23/2010 00:29	Frank A Valla, Jr	2
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103562AA	12/23/2010 00:52	Frank A Valla, Jr	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T103562AA	12/23/2010 00:29	Frank A Valla, Jr	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T103562AA	12/23/2010 00:52	Frank A Valla, Jr	20
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10356A07A	12/23/2010 02:56	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10356A07A	12/23/2010 02:56	Marie D John	1



Analysis Report

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

**Sample Description: MW-8 Grab Water Sample
Fairfax 26140**

**LLI Sample # WW 6168290
LLI Group # 1226130
Account # 12152**

Project Name: Fairfax 26140

Collected: 12/16/2010 12:25 by GM

Kleinfelder

30 Porter Road

Submitted: 12/17/2010 16:00

Littleton MA 01460

Reported: 01/04/2011 13:59

MW08-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	25	50
10903	Ethylbenzene	100-41-4	N.D.	40	50
10903	Methyl Tertiary Butyl Ether	1634-04-4	49,000	250	500
10903	Toluene	108-88-3	N.D.	35	50
10903	Xylene (Total)	1330-20-7	N.D.	40	50
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	32	0.20	10

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103571AA	12/23/2010 23:53	Kristen D Pelliccia	50
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103571AA	12/24/2010 00:17	Kristen D Pelliccia	500
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T103571AA	12/23/2010 23:53	Kristen D Pelliccia	50
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T103571AA	12/24/2010 00:17	Kristen D Pelliccia	500
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10356A07A	12/23/2010 05:56	Marie D John	10
01146	GC VOA Water Prep	SW-846 5030B	1	10356A07A	12/23/2010 05:56	Marie D John	10



Analysis Report

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

Sample Description: MW-9 Grab Water Sample
Fairfax 26140

LLI Sample # WW 6168291
LLI Group # 1226130
Account # 12152

Project Name: Fairfax 26140

Collected: 12/16/2010 13:00 by GM

Kleinfelder

30 Porter Road

Submitted: 12/17/2010 16:00

Littleton MA 01460

Reported: 01/04/2011 13:59

MW09-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	81	0.5	1
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	0.21	0.020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103562AA	12/23/2010 05:10	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T103562AA	12/23/2010 05:10	Frank A Valla, Jr	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10356A07A	12/23/2010 03:22	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10356A07A	12/23/2010 03:22	Marie D John	1



Analysis Report

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

Sample Description: MW-10 Grab Water Sample
Fairfax 26140

LLI Sample # WW 6168292
LLI Group # 1226130
Account # 12152

Project Name: Fairfax 26140

Collected: 12/16/2010 09:45 by GM

Kleinfelder

30 Porter Road

Submitted: 12/17/2010 16:00

Littleton MA 01460

Reported: 01/04/2011 13:59

--M10

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103571AA	12/23/2010 20:45	Kristen D Pelliccia	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T103571AA	12/23/2010 20:45	Kristen D Pelliccia	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10363A20A	12/29/2010 20:02	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10363A20A	12/29/2010 20:02	Marie D John	1



Analysis Report

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

**Sample Description: MW-11 Grab Water Sample
Fairfax 26140**

**LLI Sample # WW 6168293
LLI Group # 1226130
Account # 12152**

Project Name: Fairfax 26140

Collected: 12/16/2010 12:05 by GM

Kleinfelder

30 Porter Road

Submitted: 12/17/2010 16:00

Littleton MA 01460

Reported: 01/04/2011 13:59

--M11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10903	Benzene	71-43-2	N.D.	25	50
10903	Ethylbenzene	100-41-4	N.D.	40	50
10903	Methyl Tertiary Butyl Ether	1634-04-4	41,000	250	500
10903	Toluene	108-88-3	N.D.	35	50
10903	Xylene (Total)	1330-20-7	N.D.	40	50
GC Volatiles SW-846 8015B			mg/l	mg/l	
01635	TPH-GRO water C6-C10	n.a.	30	0.20	10

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103571AA	12/24/2010 00:40	Kristen D Pelliccia	50
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103571AA	12/24/2010 01:03	Kristen D Pelliccia	500
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T103571AA	12/24/2010 00:40	Kristen D Pelliccia	50
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T103571AA	12/24/2010 01:03	Kristen D Pelliccia	500
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10360A20A	12/27/2010 15:22	Marie D John	10
01146	GC VOA Water Prep	SW-846 5030B	1	10360A20A	12/27/2010 15:22	Marie D John	10



Analysis Report

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

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

LLI Sample # WW 6168294
LLI Group # 1226130
Account # 12152

Project Name: Fairfax 26140

Collected: 12/16/2010 13:00 by GM

Kleinfelder
30 Porter Road
Littleton MA 01460

Submitted: 12/17/2010 16:00

Reported: 01/04/2011 13:59

01-65

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10903	Benzene	71-43-2	6 J	ug/l 1	2
10903	Ethylbenzene	100-41-4	N.D.	2	2
10903	Methyl Tertiary Butyl Ether	1634-04-4	1,700	10	20
10903	Toluene	108-88-3	N.D.	1	2
10903	Xylene (Total)	1330-20-7	5 J	2	2
GC Volatiles SW-846 8015B					
01635	TPH-GRO water C6-C10	n.a.	1.9	mg/l 0.020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103571AA	12/24/2010 01:27	Kristen D Pelliccia	2
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103571AA	12/24/2010 01:51	Kristen D Pelliccia	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T103571AA	12/24/2010 01:27	Kristen D Pelliccia	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T103571AA	12/24/2010 01:51	Kristen D Pelliccia	20
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10360A20A	12/27/2010 14:38	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10360A20A	12/27/2010 14:38	Marie D John	1



Analysis Report

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

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

LLI Sample # WW 6168295
LLI Group # 1226130
Account # 12152

Project Name: Fairfax 26140

Collected: 12/16/2010 12:35 by GM

Kleinfelder
30 Porter Road
Littleton MA 01460

Submitted: 12/17/2010 16:00

Reported: 01/04/2011 13:59

01-85

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10903	Benzene	71-43-2	8	ug/l 0.5	1
10903	Ethylbenzene	100-41-4	N.D.	0.8	1
10903	Methyl Tertiary Butyl Ether	1634-04-4	1,900	5	10
10903	Toluene	108-88-3	N.D.	0.7	1
10903	Xylene (Total)	1330-20-7	6	0.8	1
GC Volatiles SW-846 8015B					
01635	TPH-GRO water C6-C10	n.a.	2.0	mg/l 0.020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103571AA	12/23/2010 22:43	Kristen D Pelliccia	1
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103611AA	12/27/2010 14:05	Lauren C Temple	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T103571AA	12/23/2010 22:43	Kristen D Pelliccia	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T103611AA	12/27/2010 14:05	Lauren C Temple	10
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10360A20A	12/26/2010 20:42	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10360A20A	12/26/2010 20:42	Marie D John	1



Analysis Report

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

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

LLI Sample # WW 6168296
LLI Group # 1226130
Account # 12152

Project Name: Fairfax 26140

Collected: 12/16/2010 12:10 by GM

Kleinfelder

30 Porter Road

Submitted: 12/17/2010 16:00

Littleton MA 01460

Reported: 01/04/2011 13:59

1-105

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10903	Benzene	71-43-2	8 J	ug/l 1	2
10903	Ethylbenzene	100-41-4	N.D.	2	2
10903	Methyl Tertiary Butyl Ether	1634-04-4	1,700	10	20
10903	Toluene	108-88-3	N.D.	1	2
10903	Xylene (Total)	1330-20-7	5 J	2	2
GC Volatiles SW-846 8015B					
01635	TPH-GRO water C6-C10	n.a.	2.1	mg/l 0.020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103571AA	12/24/2010 02:14	Kristen D Pelliccia	2
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103571AA	12/24/2010 02:37	Kristen D Pelliccia	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T103571AA	12/24/2010 02:14	Kristen D Pelliccia	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	T103571AA	12/24/2010 02:37	Kristen D Pelliccia	20
01635	TPH-GRO water C6-C10	SW-846 8015B	1	10360A20A	12/26/2010 21:04	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	10360A20A	12/26/2010 21:04	Marie D John	1

**Sample Description: Trip Blank Water Sample
Fairfax 26140**

**LLI Sample # WW 6168297
LLI Group # 1226130
Account # 12152**

Project Name: Fairfax 26140

Collected: 12/16/2010

Kleinfelder

Submitted: 12/17/2010 16:00

30 Porter Road

Reported: 01/04/2011 13:59

Littleton MA 01460

140TB

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	VOCs 8260 BTEX, MTBE	SW-846 8260B	1	T103571AA	12/23/2010 20:22	Kristen D Pelliccia	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T103571AA	12/23/2010 20:22	Kristen D Pelliccia	1

Quality Control Summary

 Client Name: Kleinfelder
 Reported: 01/04/11 at 01:59 PM

Group Number: 1226130

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

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: T103562AA	Sample number(s): 6168283-6168289,6168291							
Benzene	N.D.	0.5	ug/l	99		79-120		
Ethylbenzene	N.D.	0.8	ug/l	109		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	115		76-120		
Toluene	N.D.	0.7	ug/l	102		79-120		
Xylene (Total)	N.D.	0.8	ug/l	110		80-120		
Batch number: T103571AA	Sample number(s): 6168290,6168292-6168297							
Benzene	N.D.	0.5	ug/l	98		79-120		
Ethylbenzene	N.D.	0.8	ug/l	110		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	117		76-120		
Toluene	N.D.	0.7	ug/l	103		79-120		
Xylene (Total)	N.D.	0.8	ug/l	111		80-120		
Batch number: T103611AA	Sample number(s): 6168295							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	115		76-120		
Batch number: 10356A07A	Sample number(s): 6168284-6168291							
TPH-GRO water C6-C10	N.D.	0.020	mg/l	91	100	75-135	10	30
Batch number: 10360A20A	Sample number(s): 6168293-6168296							
TPH-GRO water C6-C10	N.D.	0.020	mg/l	91	91	75-135	0	30
Batch number: 10362B20A	Sample number(s): 6168283							
TPH-GRO water C6-C10	N.D.	0.020	mg/l	109	109	75-135	0	30
Batch number: 10363A20A	Sample number(s): 6168292							
TPH-GRO water C6-C10	N.D.	0.020	mg/l	91	100	75-135	10	30

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: T103562AA	Sample number(s): 6168283-6168289,6168291 UNSPK: 6168285								
Benzene	103	102	80-126	1	30				
Ethylbenzene	113	112	71-134	1	30				
Methyl Tertiary Butyl Ether	114	114	72-126	0	30				
Toluene	105	104	80-125	1	30				
Xylene (Total)	113	112	79-125	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: 1226130

Reported: 01/04/11 at 01:59 PM

Sample Matrix Quality Control

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

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Batch number: T103571AA	Sample number(s): 6168290, 6168292-6168297 UNSPK: 6168292							
Benzene	102	105	80-126	2	30			
Ethylbenzene	114	114	71-134	0	30			
Methyl Tertiary Butyl Ether	113	120	72-126	4	30			
Toluene	108	108	80-125	1	30			
Xylene (Total)	114	114	79-125	1	30			
Batch number: T103611AA	Sample number(s): 6168295 UNSPK: P172169							
Methyl Tertiary Butyl Ether	113	118	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: PPL 8260 Water

Batch number: T103562AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6168283	96	98	102	102
6168284	98	101	103	103
6168285	96	101	103	102
6168286	99	101	105	103
6168287	97	99	104	103
6168288	97	102	104	104
6168289	98	100	104	104
6168291	98	101	103	104
Blank	97	100	103	100
LCS	96	101	106	105
MS	96	103	104	101
MSD	97	104	103	102
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PPL 8260 Water

Batch number: T103571AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6168290	97	100	106	103
6168292	99	100	102	103
6168293	97	97	103	103
6168294	98	98	104	106
6168295	96	100	103	102
6168296	99	100	102	106
6168297	99	101	104	104
Blank	99	100	104	104
LCS	96	99	107	105
MS	96	99	105	105
MSD	97	103	105	106

*- Outside of specification

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

Quality Control Summary

Client Name: Kleinfelder
Reported: 01/04/11 at 01:59 PM

Group Number: 1226130

Surrogate Quality Control

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

Analysis Name: 8260 Master Scan (water)

Batch number: T103611AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	99	103	104	103
LCS	98	102	106	106
MS	98	100	105	106
MSD	96	104	106	106

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

Analysis Name: TPH-GRO water C6-C10

Batch number: 10356A07A

Trifluorotoluene-F

6168284	85
6168285	95
6168286	95
6168287	94
6168288	93
6168289	98
6168290	101
6168291	93
Blank	93
LCS	103
LCSD	104

Limits: 63-135

Analysis Name: TPH-GRO water C6-C10

Batch number: 10360A20A

Trifluorotoluene-F

6168293	87
6168294	91
6168295	90
6168296	93
Blank	84
LCS	92
LCSD	107

Limits: 63-135

Analysis Name: TPH-GRO water C6-C10

Batch number: 10362B20A

Trifluorotoluene-F

6168283	86
Blank	83
LCS	125
LCSD	123

Limits: 63-135

Analysis Name: TPH-GRO water C6-C10

*- Outside of specification

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

Quality Control Summary

Client Name: Kleinfelder
Reported: 01/04/11 at 01:59 PM

Group Number: 1226130

Surrogate Quality Control

Batch number: 10363A20A
Trifluorotoluene-F

6168292	92
Blank	92
LCS	113
LCSD	113

Limits: 63-135

*- Outside of specification

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



Analysis Request/Environmental Services Chain of Custody

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

1226130 61682832-97

Page 1 of 2

Client: <u>Fairfax Petroleum</u>		Acct. #: _____		Matrix			Analyses Requested										For Lab Use Only				
Project Name#: <u>26140- Great Falls</u>		PWSID #: _____		Potable			Preservation Codes										FSC: _____				
Project Manager: <u>Mark Steele</u>		P.O. #: <u>08531-117575</u>		NPDES													SCR#: _____				
Sampler: <u>G. Moore / C. Law</u>		Quote #: _____															Preservation Codes				
Name of State where samples were collected: <u>Virginia</u>																	H-HCO T-Toluene H-HNO3 B-Bioch S-H2SO4 O-Other				
Sample Identification		Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total # of Containers	BTEX MTBE 8260	TPH-GRO 8015									Remarks	Temperature of samples upon receipt (if requested)
MW-1		12/16/10	1115	X			X	W	5	X	X										
MW-2																					
MW-3																					
MW-5			1330	X			X		5	X	X										
MW-6S			1025	X			X		6	X	X										
MW-6D																					
MW-6D (65 ft)			1045	X			X		6	X	X										
MW-6D (85 ft)			1020	X			X		6	X	X										
MW-6D (105 ft)			1000	X			X		6	X	X										
MW-7			1045	X			X		6	X	X										
MW-8			1225	X			X		5	X	X										
MW-9			1300	X			X		5	X	X										
Turnaround Time Requested (TAT) (please circle) <u>Normal</u> Rush						Relinquished by: <u>[Signature]</u>		Date	Time	Received by: <u>[Signature]</u>		Date	Time								
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)								12/16/10	1930			12/17/10	1040								
Date results are needed: _____						Relinquished by: <u>[Signature]</u>		Date	Time	Received by: <u>[Signature]</u>		Date	Time								
Rush results requested by (please circle): Phone Fax E-mail								12/17/10	1600												
Phone #: _____ Fax #: _____						Relinquished by: _____		Date	Time	Received by: _____		Date	Time								
E-mail address: _____						Relinquished by: _____		Date	Time	Received by: _____		Date	Time								
Data Package Options (please circle if required)						SDG Complete? Yes No		Relinquished by: _____		Date	Time	Received by: _____		Date	Time						
Type I (validation/NJ reg) TX-TRRP-13				Yes No				Relinquished by: _____		Date	Time	Received by: _____		Date	Time						
Type II (Tier II) MA MCP CT RCP								Relinquished by: _____		Date	Time	Received by: _____		Date	Time						
Type III (Reduced NJ)				State-specific QC (MS/MSD/Dup)? Yes No				Relinquished by: _____		Date	Time	Received by: <u>[Signature]</u>		Date	Time						
Type IV (CLP SOW)				(If yes, indicated QC sample and submit triplicate volume)				Relinquished by: _____		Date	Time	12/17/10		1600							
Type VI (Raw Data Only)				Internal COC required? Yes No																	

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)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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