



5508 35th Avenue NE, Suite 108
Seattle, Washington 98105
Phone: (206) 523-3505
Whitenviro@yahoo.com

August 1, 2011

Lasher, Holzapfel, Sperry & Ebberson
2600 Two Union Square
601 Union Street
Seattle, Washington 98101

Attention: Ms. Shannon Sperry

Subject: June 2011 Groundwater Monitoring Results
Service Paper Site
3324 Lind Avenue SW
Renton, Washington

Dear Ms. Sperry:

As you requested, I have conducted an additional round of groundwater sampling at the Service Paper Co. site, at 3324 Lind Avenue SW, in Renton, Washington. Figure 1 shows the site location and surrounding area. This letter summarizes the sampling and results of laboratory testing on the groundwater samples. The findings indicate that all of the monitoring wells demonstrate groundwater quality that meet current Washington State cleanup criteria under the Model Toxics Control Act, Chapter 173-340 WAC.

Current Groundwater Monitoring

WES conducted a round of groundwater sampling at the site on June 29, 2011. All six of the existing monitoring wells were purged and sampled as part of this monitoring event. Figure 2 shows the approximate locations of the wells in relation to the former underground storage tank cleanup area.

Groundwater Level Measurements

As part of monitoring, WES measured the depth to groundwater in the on-site monitoring wells. The measurements were obtained after the wells caps had been removed for a period of time to allow water levels to stabilize and before any of the wells were purged of standing groundwater. Table 1 summarizes the previously reported top-of-pipe elevation for each well, the depth to groundwater and the relative elevation of groundwater at each well.

The current measurements show that groundwater is at a depth of six to six and a half feet below the ground surface, showing a general trend of migration toward the northwest. The inferred gradient of groundwater migration is comparable to that shown by prior measurements. Figure 2 shows the inferred contour of the shallowest groundwater surface and anticipated direction of migration.

Groundwater Sampling

Samples were obtained from monitoring wells RW-1, MW-2, MW-3, MW-4, MW-5 and MW-6. Figure 2 shows the approximate locations of the wells in relation to the former underground storage tank cleanup area. Samples were obtained using a peristaltic pump equipped with new

polyethylene tubing in each well. Each well was purged of at least three times the volume of standing water prior to sampling; volumes ranging from two to 50 gallons. Monitoring well RW-1 is a 4-inch diameter well, so most of the purging was conducted with a portable polyethylene purge pump. The final well volume of purging was completed with the peristaltic pump.

Samples were taken following proper environmental sampling techniques and protocols. Samples were placed in laboratory prepared bottles, chilled and held under chain of custody until delivered to the laboratory. The samples were submitted to Friedman & Bruya, Inc., a Washington State accredited laboratory, for testing.

Each sample was analyzed by Washington accepted method NWTPH-G for total petroleum hydrocarbons (TPH) in the gasoline range, as well as the volatile aromatic compounds benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8021B. All laboratory testing was conducted with reporting limits suitable for comparison with regulatory criteria. All laboratory quality assurance/quality control data is included and meets the analytical requirements of this assessment.

Laboratory Analytical Results

The results of laboratory testing and Washington State cleanup criteria are summarized in Table 2. The laboratory reports of the analytical results are attached.

Four of the six groundwater samples did not contain detectable concentrations of any of the analyzed petroleum hydrocarbons. The sample from well MW-3 contained 4.0 ug/l (units equivalent to parts per billion (ppb)) of total xylenes, and no other detectable hydrocarbons. The sample from MW-6 contained 3.2 ug/l of benzene and no other petroleum hydrocarbons. The reported concentrations are below Washington State MTCA Method A groundwater cleanup criteria for each of these compounds.


Conclusions

The current results indicate that groundwater at the site meets Washington State groundwater cleanup criteria for petroleum hydrocarbons that are associated with gasoline releases. The findings suggest the site cleanup that was conducted in 2010 was effective at reducing the source of contamination to groundwater and contaminants are not migrating significantly to downgradient locations.

Closure

Thank you for the opportunity to be of service to you in this matter. If you have any questions regarding this letter, or if I may be of any further assistance, please feel free to contact me at your convenience.

Respectfully submitted,
Whitman Environmental Sciences



Daniel S. Whitman
Principal

Attachments:

Table 1 - Groundwater Level Measurements

Table 2 - Current Groundwater Sample Analytical Results

Figure 1 - Site Location Map

Figure 2 - Monitoring Well Location Plan and Inferred Groundwater Contours

Laboratory Analytical Report - Friedman & Bruya, Inc.

Table 1
Summary of Groundwater Level Data
 Service Paper Company Site
 Renton, Washington

Monitoring Well	Date Measured	Water Level Relative to Top of Pipe	Top of Pipe Elevation*	Groundwater Elevation*
RW-1	6-30-2011	-6.10	95.71	89.61
MW-2	6-30-2011	-6.50	96.14	89.64
MW-3	6-30-2011	-6.50	96.13	89.63
MW-4	6-30-2011	-6.39	96.02	89.63
MW-5	6-30-2011	-10.64	100.22	89.58
MW-6	6-30-2011	-10.63	100.19	89.56

* Top of Pipe elevations for RW-1, MW-2, MW-3 and MW-4 reported from a January 1998 site survey by others, and were not confirmed by a current survey. Groundwater elevations are measured relative to these points. Top of pipe elevations of MW-5 and MW-6 surveyed relative to elevations of RW-1 and MW-2 in March, 2010.

Table 2
Summary of Groundwater Analytical Results
 Service Paper Company Site
 Renton, Washington

Sample I.D.	Sample Date	Laboratory Analytical Results (ug/l)				
		Gasoline Range Organics (NWTPH-G)	Benzene	Toluene	Ethylbenzene	Total Xylenes
RW-1	6/30/2011	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-2	6/30/2011	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-3	6/30/2011	ND (<100)	ND (<1)	ND (<1)	ND (<1)	4.0
MW-4	6/30/2011	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-5	6/30/2011	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-6	6/30/2011	ND (<100)	3.2	ND (<1)	ND (<1)	ND (<3)
Model Toxics Control Act Method A Groundwater Cleanup Level		800	5	1,000	700	1,000

Table 2 Notes:
 Gasoline range total petroleum hydrocarbons by Northwest Method NWTPH-G for petroleum in the gasoline range.
 BTEX Compounds by EPA Method 8021B.
 ND (<X.X) - Not Detected by Analysis at levels above the noted detection reporting limit.

Reported concentrations above Model Toxics Control Act Method A Cleanup Levels are shown in **BOLD ITALIC**.

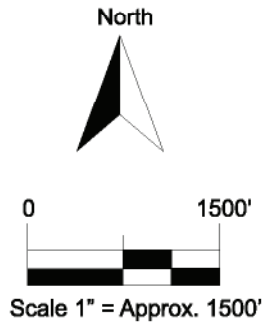
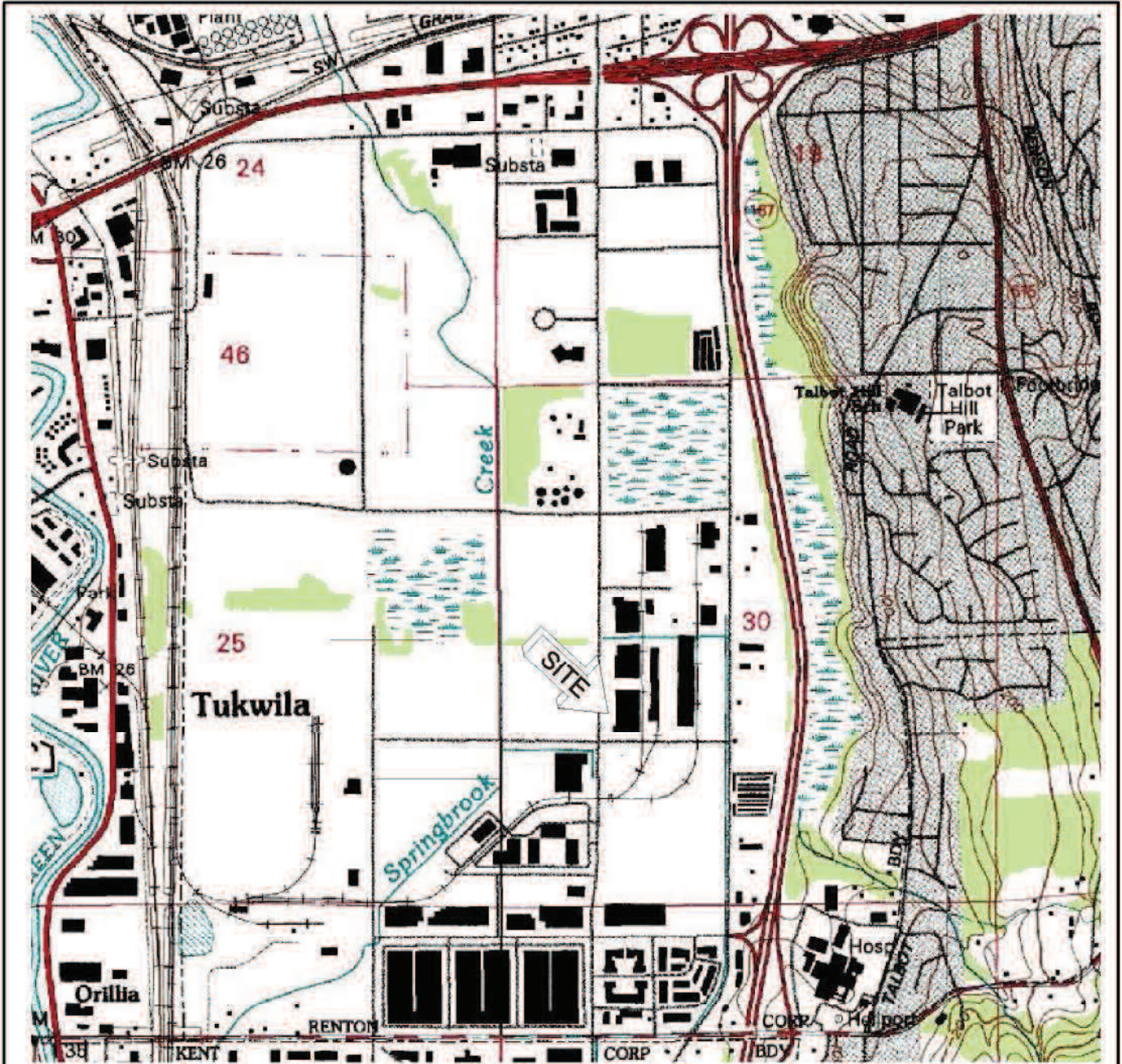


Figure 1 - Site Location Map

Service Paper Company
 3324 Lind Avenue SW
 Renton, Washington

Project No.	WES - 1412
Date	Mar 19, 2010
File ID.	1412F1



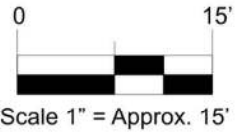
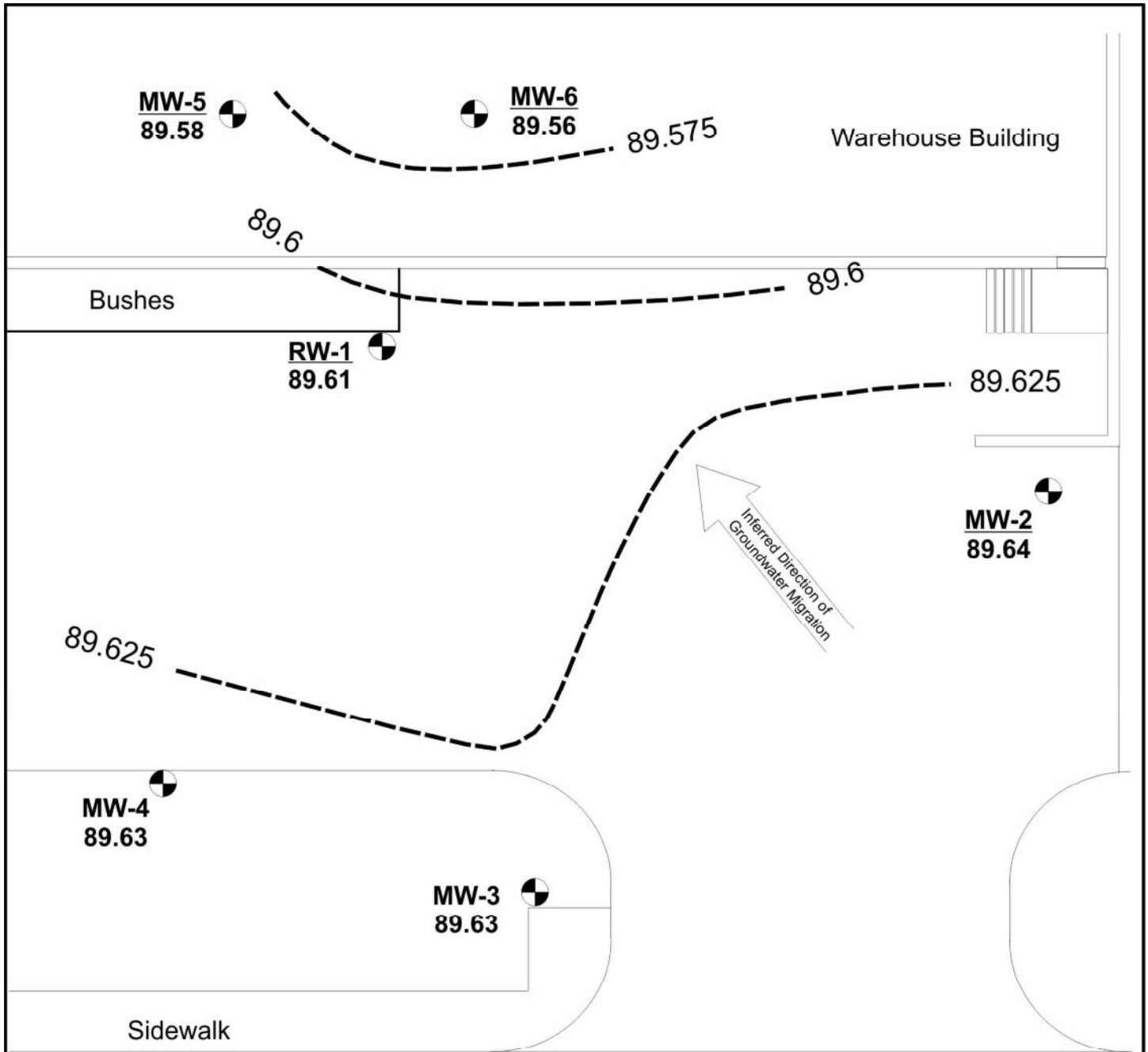




Figure 2 - Monitoring Well Locations and Inferred Groundwater Contours- 6/29/2011

Service Paper Company
 3324 Lind Avenue SW
 Renton, Washington

 Location of Monitoring Wells

 Inferred Groundwater Surface Contour based on measurements of 6/29/2011.

Project No.	WES - 1412
Date	Jul 18, 2011
File ID.	1412F2



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

July 7, 2011

Dan Whitman, Project Manager
Whitman Environmental Sciences
5508 35th Ave. NE
Seattle, WA 98105

Dear Mr. Whitman:

Included are the results from the testing of material submitted on July 1, 2011 from the Service Paper, F&BI 107009 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
WES0707R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 1, 2011 by Friedman & Bruya, Inc. from the Whitman Environmental Sciences Service Paper, F&BI 107009 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Whitman Environmental Sciences</u>
107009-01	RW-1
107009-02	MW-2
107009-03	MW-3
107009-04	MW-4
107009-05	MW-5
107009-06	MW-6

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/07/11
 Date Received: 07/01/11
 Project: Service Paper, F&BI 107009
 Date Extracted: 07/05/11
 Date Analyzed: 07/05/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES AND TPH AS GASOLINE
 USING EPA METHOD 8021B AND NWTPH-Gx**
 Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
RW-1 107009-01	<1	<1	<1	<3	<100	105
MW-2 107009-02	<1	<1	<1	<3	<100	103
MW-3 107009-03	<1	<1	<1	4.0	<100	103
MW-4 107009-04	<1	16	<1	<3	<100	106
MW-5 107009-05	<1	<1	<1	<3	<100	105
MW-6 107009-06	3.2	<1	<1	<3	<100	104
Method Blank 01-1203 MB	<1	<1	<1	<3	<100	103

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/07/11

Date Received: 07/01/11

Project: Service Paper, F&BI 107009

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 107018-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	90	72-119
Toluene	ug/L (ppb)	50	90	71-113
Ethylbenzene	ug/L (ppb)	50	93	72-114
Xylenes	ug/L (ppb)	150	88	72-113
Gasoline	ug/L (ppb)	1,000	73	70-119

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 - More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr - The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

107007

SAMPLE CHAIN OF CUSTODY ME 07/01/11

V3

Send Report To [Signature]
 Company Friedman & Bruye, Inc.
 Address 5505 35th Ave NE
 City, State, ZIP Seattle WA 98105
 Phone # 206-363-3505 Fax # _____

SAMPLERS (signature) _____
 PROJECT NAME/NO. _____
 Service Paper
 REMARKS _____
 PO # _____

Page # _____ of _____
 TURNAROUND TIME
 Standard (2 Weeks)
 RUSH
 Rush charges authorized by: _____
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED						Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	
MD-1	01A-C	5-30		Water	3	X	X	X	X	X		
MD-2	02					X	X	X	X	X		
MD-3	03					X	X	X	X	X		
MD-4	04					X	X	X	X	X		
MD-5	05					X	X	X	X	X		
MD-6	06					X	X	X	X	X		

Samples received at 18 °C

Friedman & Bruye, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8382
 Fax (206) 283-5044
 FORAMS\OOC\OOC.DOC

Requisitioned by: _____ SIGNATURE
 PRINT NAME
 Received by: [Signature] Michael Eckel
 Requisitioned by: _____
 Received by: _____
 COMPANY: FEBS DATE: 7-1-11 TIME: 1:58
FE Bins