Whitman Environmental Sciences

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

August 25, 2011

FedEx Freight, Inc.
3405 Victor St.
Santa Clara, CA 95054

Attention: Mr. Chong Lee

Subject: Groundwater Monitoring
FedEx Freight, Inc. Seattle Area Terminal
18221 E. Valley Highway
Kent, Washington

Dear Mr. Lee:

As you requested, Whitman Environmental Sciences (WES) has conducted a second quarterly round of groundwater sampling from eleven existing monitoring wells at the FedEx Freight terminal in Kent, Washington (Figure 1). This letter is to document the monitoring procedures and report the results of our sampling.

Field Procedures

WES mobilized to the site for a groundwater sampling event on July 27 and 28, 2011.

Groundwater Level Measurements

As part of this monitoring event, WES measured the depth to groundwater in all accessible monitoring wells. The measurements were obtained before the wells were purged of standing groundwater. Table 1 summarizes the depth to groundwater, the measured total depth of the wells, the reported top-of-pipe elevation and calculated elevation of groundwater at each well, relative to an on-site assigned datum. The elevations are relative to an on-site reference point assigned an assumed elevation of 100.00.

For the purpose of this study the well elevations are based on those reported from a 1998 site survey reported by others. Monitoring wells MW-6, MW-7 and MW-8 have each had an additional piece of PVC riser pipe added to the top of the well casings to improve security and prevent surface water infiltration. Table 1 notes the new elevation of the top of pipe of each of these wells.

The current measurements show that groundwater is at a depth of 5.90 to 9.70 feet below the ground surface, which represent elevations ranging from 89.75 to 92.08 feet, based on site datum. The groundwater elevations were used to calculate the inferred groundwater surface contours, as shown in Figure 2. The contours imply a general trend of groundwater migration toward the west. The measured groundwater levels in the monitoring wells are from 0.87 foot to 2.27 feet lower than the last groundwater sampling event conducted in February, 2011.

Groundwater Sampling

WES obtained groundwater samples from all eleven of the site monitoring wells. The samples were btained with a peristaltic pump using new polyethylene tubing in each well. Each well was purged of at least three volumes of the standing water volume in the well prior to sampling, except RW-1. RW-1 is a six-inch diameter well with a standing water volume of approximately 35 gallons. RW-1 was pumped to remove a volume of about 65 gallons, at which point the well was completely drained and recharged slowly. The well was allowed to stand overnight and had not yet recovered to its original water level the next morning. The well was then purged of a volume of 20 gallons until almost drained, before sampling.

Samples were taken following proper environmental sampling techniques and protocols, 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 methods NWTPH-G for total petroleum hydrocarbons (TPH) in the gasoline range, as well as the volatile aromatic compounds benzene, toluene, ethylbenzene and xylenes (BTEX), commonly associated with gasoline. The samples were also tested for total petroleum hydrocarbons in the diesel and oil ranges by Washington accepted method NWTPH-D(x), following a silica gel cleanup to remove organic materials that could bias the testing results.

Laboratory Analytical Results

The results of laboratory testing and Washington State cleanup criteria are summarized in Table 2. The results of the recent prior sampling round from February 2011 are included for reference. The laboratory reports of the analytical results are attached. All laboratory quality assurance/ quality control criteria were met by the analyses and the laboratory reporting limits are low enough that the data can be compared to appropriate regulatory cleanup levels.

No sample from any of the wells contained detectable concentrations of any of the analyzed parameters. This is the second consecutive sampling round in 2011 in which all wells meet current Washington Model Toxics Control Act (MTCA) Method A groundwater cleanup criteria for all of the analyzed parameters.

Conclusions

The current groundwater sampling shows no evidence of petroleum impacts exceeding Washington State groundwater cleanup criteria under the Model Toxics Control Act (Chapter 173-340 WAC).

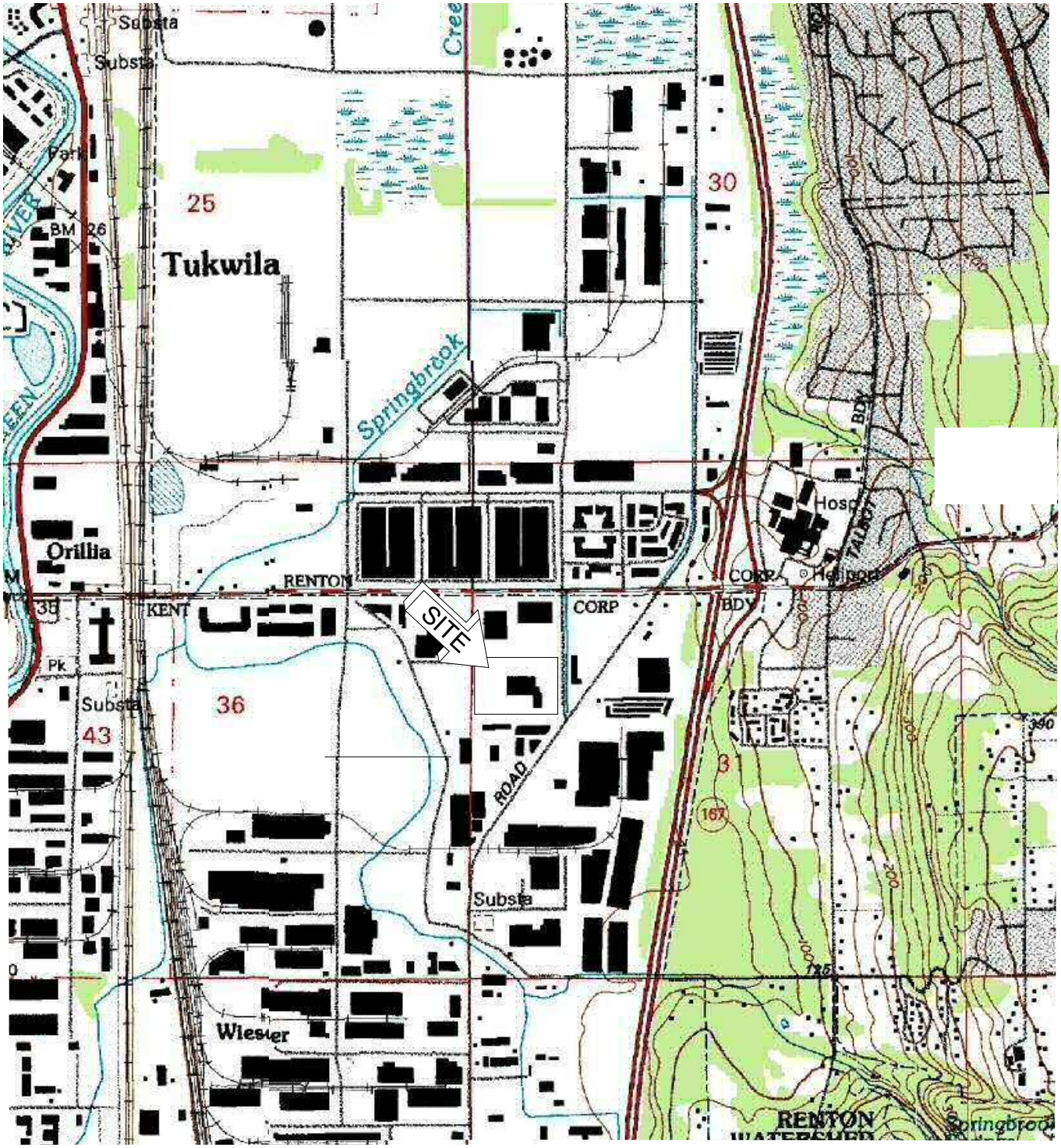
Closure

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:
Figure 1 - Site Location Map
Figure 2 - Groundwater Sample Location Plan, with Inferred Groundwater Contours
Table 1 - Groundwater Level Measurements
Table 2 - Groundwater Sample Analytical Results
Table 3 - Summary of Quarterly Groundwater Sample Analytical Results
Laboratory Analytical Reports - Friedman & Bruya, Inc.



North

0 1500'

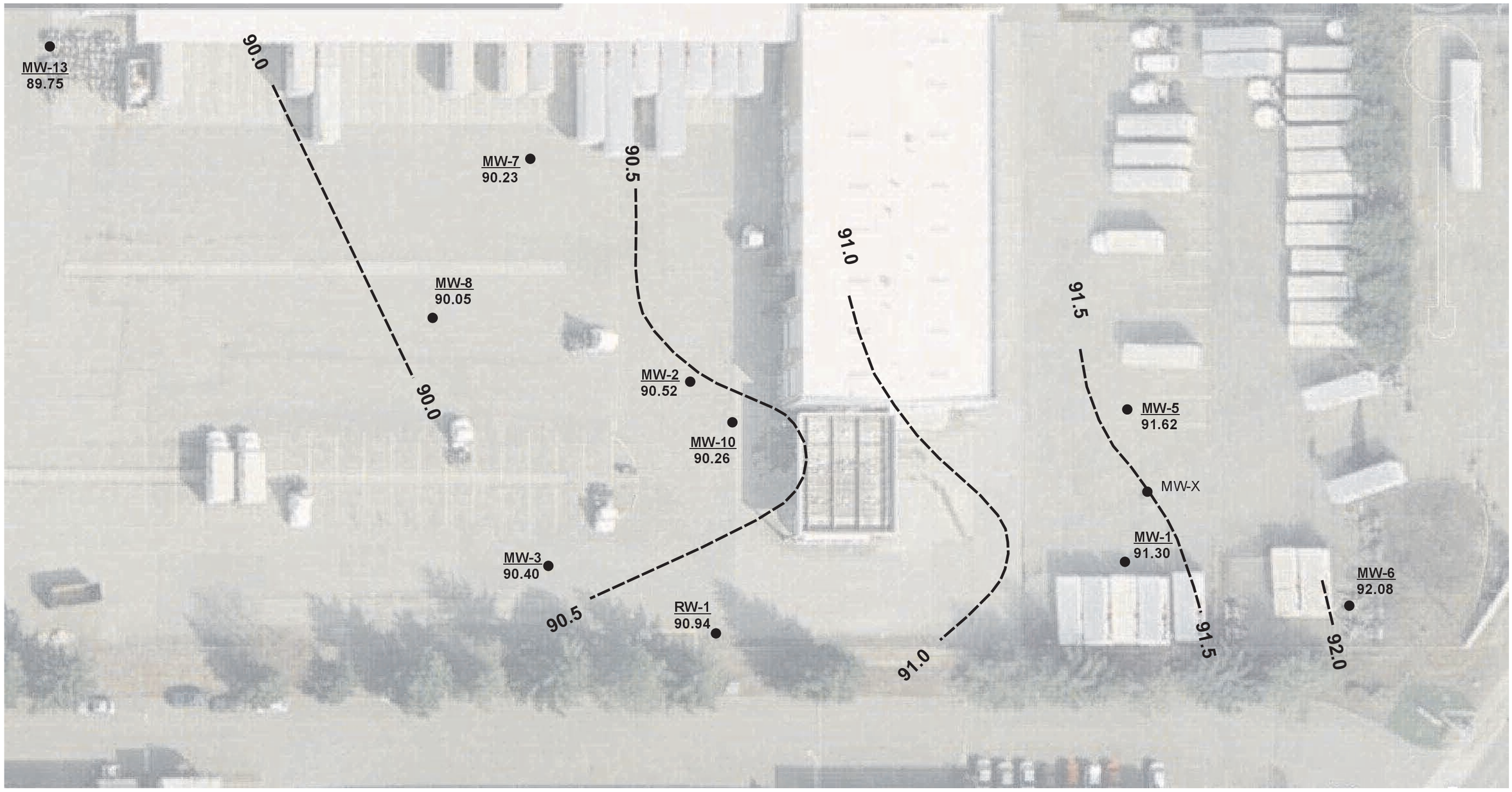
Scale 1" = Approx. 1500'

Figure 1 - Site Location Map

FedEx Freight, Inc.
18221 East Valley Highway
Kent, Washington

Project No.	WES - 1276
Date	Mar 19, 2010
File ID.	1276F1

Whitman Environmental Sciences



Legend

- Approximate Location of Monitoring Well

Inferred Groundwater Surface Contours
Based on Measurements taken July 27, 2011

0 80
Scale 1" = Approx. 80 feet

North

Figure 2 - Monitoring Well Location Plan
with Inferred Groundwater Contours
FedEx Freight, Inc.
Kent Termnal
18821 East Valley Highway,
Kent, WA

Project No.	WES - 1276
Date	Mar 17, 2011
File ID.	1276F2

Whitman Environmental Sciences

Table 1 ***Project No. WES-1276***

Summary of Groundwater Level Data July 27, 2011
FedEx Freight, Inc. Seattle Area Terminal
Kent, Washington

Monitoring Well	Water Level Relative to Top of Pipe (ft)	Total Depth of Well (ft)	Top of Pipe Elevation*	Groundwater Elevation*	Comments
MW-1	-7.38	15.2	98.68	91.30	Monument repaired
MW-2	-.8.63	17.0	99.15	90.52	Monument repaired
MW-3	-8.61	18.5	99.01	90.40	Monument repaired
MW-4	Not	Present	--	--	
MW-5	-6.71	18.8	98.33	91.62	Monument has only one viable bolt hole
MW-6	-5.94	21.6	98.02**	92.08	Monument replaced
MW-7	-8.91	18.2	99.14**	90.23	Well secured in unbolted style monument
MW-8	-8.42	18.4	98.47**	90.05	Monument replaced
MW-9	Not	Present	--	--	
MW-10	-7.37	25.6	97.63	90.26	Vault in poor condition, well secured
MW-11	Abandoned	--	--	--	
MW-12	Abandoned	--	--	--	
MW-13	-9.70	19.15	99.45	89.75	Monument repaired
MW-14	Abandoned	--	--	--	
MW-15	Abandoned	--	--	--	
MW-X***	-5.90	13.2	Unknown	--	Monument repaired
RW-1	-7.17	19.6	98.11	90.94	Top of 6" well open inside secure vault

Table 1 Notes:
* Top of Pipe and Groundwater Elevations relative to an on-site reference point assigned elevation of 100.00 for the purposes of this study.
** Top of pipe raised with new piece of PVC riser during reconstruction of monuments for well security. Elevation based on prior survey, plus measured
distance above old top of pipe.
*** Monitoring well I.D. and top-of-pipe elevation unknown.

Table 2
FedEx Freight, Inc., Seattle Area Terminal
Current Groundwater Sample Analytical Results

Sample I.D.	Sample Date	Laboratory Analytical Results in ug/l (ppb)					
		Diesel and Oil Range TPH NWTPH-D(x)	Gasoline Range TPH NWTPH-G	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-1	7/27/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-2	7/27/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-3	7/27/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-5	7/27/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-6	7/27/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-7	2/28/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-8	7/28/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-10	7/27/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-13	7/28/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-X	7/27/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
RW-1	7/28/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
Model Toxics Control Act Method A Ground-water Cleanup Level		***2,000***	***1,000****	***5***	***1,000***	***700***	***1,000***

Table 2 Notes:
Diesel and Oil Range total petroleum hydrocarbons conducted by Washington Method NWTPH-D(x).
Gasoline range total petroleum hydrocarbons by Northwest Method NWTPH-G for petroleum in the gasoline range.
BTEX Compounds by EPA Method 8021B.
ND (<X.XXX) - Not Detected by Analysis at levels above the noted detection reporting limit. N/A - Not analyzed for the listed parameter.
*MTCA Method A cleanup level for gasoline range petroleum hydrocarbons, when benzene is not present. If benzene is present, Method A cleanup level is 800 ug/l.

Table 3
FedEx Freight, Inc., Seattle Area Terminal
Summary of Quarterly Groundwater Sample Analytical Results

Sample I.D.	Sample Date	Laboratory Analytical Results in ug/l (ppb)					
		Diesel and Oil Range TPH NWTPH-D(x)	Gasoline Range TPH NWTPH-G	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-2	2/28/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	7/27/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-3	2/28/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	7/27/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-5	3/1/2011	Diesel - 52 Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	7/27/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-6	3/1/2011	Diesel - ND (<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	7/27/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-7	3/1/2011	Diesel - ND (<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	7/28/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-8	3/1/2011	Diesel - ND (<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	7/28/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)

Sample I.D.	*Sample Date*	*Laboratory Analytical Results in ug/l (ppb)*					
		*Diesel and Oil Range TPH**	*Gasoline Range TPH (NWTPH-G)*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*
MW-10	3/1/2011	Diesel - ND (<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	7/27/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-13	3/1/2011	Diesel - ND (<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	7/28/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-X	3/1/2011	Diesel - ND (<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	7/27/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
RW-1	3/1/2011	Diesel - ND (<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
	7/28/2011	Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
Model Toxics Control Act Method A Ground-water Cleanup Level		***2,000***	***1,000****	***5***	***1,000***	***700***	***1,000***

Table 2 Notes:
Diesel and Oil Range total petroleum hydrocarbons conducted by Washington Method NWTPH-D(x).
Gasoline range total petroleum hydrocarbons by Northwest Method NWTPH-G for petroleum in the gasoline range.
BTEX Compounds by EPA Method 8021B.
ND (<X.XXX) - Not Detected by Analysis at levels above the noted detection reporting limit. N/A - Not analyzed for the listed parameter.
*MTCA Method A cleanup level for gasoline range petroleum hydrocarbons, when benzene is not present. If benzene is present, Method A cleanup level is 800 ug/l.

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

August 2, 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 28, 2011 from the Fedex Kent, PO WES 1276, F&BI 107380 project. There are 6 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
WES0802R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 28, 2011 by Friedman & Bruya, Inc. from the Whitman Environmental Sciences Fedex Kent, PO WES 1276, F&BI 107380 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Whitman Environmental Sciences
107380-01	MW-1
107380-02	MW-2
107380-03	MW-3
107380-04	MW-5
107380-05	MW-6
107380-06	MW-10
107380-07	MW-X

All quality control requirements were acceptable.

Date of Report: 08/02/11
Date Received: 07/28/11
Project: Fedex Kent, PO WES 1276, F&BI 107380
Date Extracted: 07/28/11 and 07/29/11
Date Analyzed: 07/28/11 and 07/29/11

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)

Sample ID Laboratory ID	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
MW-1 107380-01	<1	<1	<1	<3	<100	104
MW-2 107380-02	<1	<1	<1	<3	<100	106
MW-3 107380-03	<1	<1	<1	<3	<100	102
MW-5 107380-04	<1	<1	<1	<3	<100	103
MW-6 107380-05	<1	<1	<1	<3	<100	101
MW-10 107380-06	<1	<1	<1	<3	<100	104
MW-X 107380-07	<1	<1	<1	<3	<100	98
Method Blank 01-1381 MB	<1	<1	<1	<3	<100	103

Date of Report: 08/02/11
Date Received: 07/28/11
Project: Fedex Kent, PO WES 1276, F&BI 107380
Date Extracted: 07/28/11
Date Analyzed: 07/29/11

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample Extracts Passed Through a Silica Gel Column Prior to Analysis

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 47-140)
MW-1 107380-01	<50	<250	110
MW-2 107380-02	<50	<250	119
MW-3 107380-03	<50	<250	104
MW-5 107380-04	<50	<250	113
MW-6 107380-05	<50	<250	109
MW-10 107380-06	<50	<250	109
MW-X 107380-07	<50	<250	113
Method Blank 01-1378 MB	<50	<250	102

Date of Report: 08/02/11
Date Received: 07/28/11
Project: Fedex Kent, PO WES 1276, F&BI 107380

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: 107380-01 (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	107	72-119
Toluene	ug/L (ppb)	50	94	71-113
Ethylbenzene	ug/L (ppb)	50	96	72-114
Xylenes	ug/L (ppb)	150	92	72-113
Gasoline	ug/L (ppb)	1,000	101	70-119

Date of Report: 08/02/11
Date Received: 07/28/11
Project: Fedex Kent, PO WES 1276, F&BI 107380

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	102	109	61-133	7

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.

107380

SAMPLE CHAIN OF CUSTODY

ME 07/28/11 V2/B05

Page # _____ of _____

Send Report To [illegible]

Company [illegible] ENV. SERVICES

Address 5508 35TH AVE NE

City, State, ZIP SEATTLE, WA 98105

Phone # 206-523-3605 Fax # _____

SAMPLERS *(signature)*

PROJECT NAME/NO. FEDEX KENT

PO # OES 1276

REMARKS SILICA GEL ON DRY PLEASE

GEMS Y / N

TURNAROUND TIME
- [x] Standard (2 Weeks)
- [ ] RUSH _____
- Rush charges authorized by: _____

SAMPLE DISPOSAL
- [ ] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals			Notes
MW-1			01	7-27-11	1:40	WATER	3	X	X	X						
MW-2			02		3:00			X	X	X						
MW-3			03		4:10			X	X	X						
MW-5			04					X	X	X						
MW-6			05		12:15			X	X	X						
MW-10			06		5:25			X	X	X						
MW-X			07		1:00			X	X	X						

Samples received at 16 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	[signature]	[illegible]	OES	7-28-11	10:25
Received by:	[signature]	[illegible]	FBI	7/28/11	10:45 AM
Relinquished by:					
Received by:					

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

August 15, 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 28, 2011 from the Fedex Kent, PO WES 1276, F&BI 107396 project. There are 6 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
WES0815R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 28, 2011 by Friedman & Bruya, Inc. from the Whitman Environmental Sciences Fedex Kent, PO WES 1276, F&BI 107396 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Whitman Environmental Sciences
107396-01	MW-7
107396-02	MW-8
107396-03	MW-13
107396-04	RW-1

All quality control requirements were acceptable.

Date of Report: 08/15/11
Date Received: 07/28/11
Project: Fedex Kent, PO WES 1276, F&BI 107396
Date Extracted: 08/02/11
Date Analyzed: 08/02/11

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)

Sample ID Laboratory ID	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
MW-7 107396-01	<1	<1	<1	<3	<100	99
MW-8 107396-02	<1	<1	<1	<3	<100	98
MW-13 107396-03	<1	<1	<1	<3	<100	99
RW-1 107396-04	<1	<1	<1	<3	<100	105
Method Blank 01-1399 MB	<1	<1	<1	<3	<100	100

Date of Report: 08/15/11
Date Received: 07/28/11
Project: Fedex Kent, PO WES 1276, F&BI 107396
Date Extracted: 08/01/11
Date Analyzed: 08/04/11

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 47-140)
MW-7 107396-01	<50	<250	76
MW-8 107396-02	<50	<250	90
MW-13 107396-03	<50	<250	91
RW-1 107396-04	<50	<250	86
Method Blank 01-1394 MB	<50	<250	69

Date of Report: 08/15/11
Date Received: 07/28/11
Project: Fedex Kent, PO WES 1276, F&BI 107396

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: 107396-01 (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	106	72-119
Toluene	ug/L (ppb)	50	94	71-113
Ethylbenzene	ug/L (ppb)	50	98	72-114
Xylenes	ug/L (ppb)	150	92	72-113
Gasoline	ug/L (ppb)	1,000	101	70-119

Date of Report: 08/15/11
Date Received: 07/28/11
Project: Fedex Kent, PO WES 1276, F&BI 107396

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	88	93	58-134	6

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.

107396

SAMPLE CHAIN OF CUSTODY

ME 07/28/11 V1/B05

Send Report To [illegible]
Company [illegible] ENV. SERVICES
Address 508 35TH AVE NE
City, State, ZIP SEATTLE, WA 98105
Phone # 206-523-3505 Fax #

SAMPLERS (signature)

PROJECT NAME/NO.: FEDEX / KENT

PO #: [illegible] 1276

REMARKS: SILICA GEL CLEANUP ON D(X) PLEASE

Page # _____ of _____

TURNAROUND TIME
- [X] 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: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS						Notes
MW-7	01 A-C	7-26		WATER	3	X	X	X									
MW-8	02 A-C	〃			3	X	X	X									
MW-13	03 A-C				3	X	X	X									
RW-1	04 A-D				4	X	X	X									

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:			[illegible] ES	7-28	4:00
Received by:		Nhan Phan	Fe B I	7/28/11	4:00
Relinquished by:					
Received by:					

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

Samples received at 21 °C