WHITMAN Environmental Sciences

6812 16th Avenue NE
Seattle, WA 98115

(206) 523-3505
Whitenviro@yahoo.com

September 2, 2020

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

Attention: Mr. Chong Lee

Subject: 2nd Quarter 2020 Groundwater Monitoring
Former 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 quarterly sampling event on monitoring well RW-2 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 purge on May 5th, 2020. A vacuum truck was used to purge a total of approximately 2,800 gallons of water from RW-2, a six-inch diameter well installed near the southern boundary of the site (Figure 2). This procedure is in accordance with the scope of work proposed to the Washington Department of Ecology in our November 15th, 2019 summary letter of monitoring conducted from 2016 to 2019, and our discussions with Mr. Grant Yang, the Department of Ecology Site Manager.

The vacuum truck was supplied and operated by Marine Vacuum Services, Inc., of Seattle, who managed and disposed the purge water under their wastewater discharge permit with King County METRO.

The well was allowed to recover for about six weeks before sampling. On June 25th, 2020, WES returned to the site and conducted a limited purge of approximately three well volumes, then sampled RW-2 following standard environmental sampling protocols.

Groundwater Level Measurements

As part of this monitoring event, WES measured the depth to groundwater on all of the site monitoring wells on May 5th, 2020, before the purge of RW-2. Water levels are summarized in Table 1. The inferred groundwater surface contours are shown in Figure 2. The measured depths are within the range of prior measurements of site water levels and the inferred direction of groundwater migration is to the northwest, consistent with previously observed trends from 2011 to the present.

Groundwater Sampling

A sample was 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 sample was submitted to Friedman & Bruya, Inc., a Washington State accredited laboratory, for testing.

The 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 sample was also tested for total petroleum hydrocarbons in the diesel and oil ranges by Washington accepted method NWTPH-D(x).

Laboratory Analytical Results

The results of laboratory testing and Washington State cleanup criteria are summarized in Table 2. The laboratory report of analytical results is 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.

Table 2
2nd Quarter 2020 Groundwater Monitoring Results - RW-2
Sample Date: June 25th, 2020

Parameter	***Laboratory Analytical Result (ug/l)***	***MTCA Method A Groundwater Cleanup Level (ug/l)***
Benzene	***11***	5
Toluene	ND (<1)	1,000
Ethylbenzene	ND (<1)	700
Xylenes	4.3	1,000
GRO- (NWTPH-G)	ND (<100)	800*
DRO - (NWTPH-D(x))	71	500
MRO - (NWTPH-D(x))	ND (<250)	500

Table Notes:
BTEX compounds by EPA Method 8021B.
MTCA Method A Cleanup Levels from Dept. of Ecology 2020 CLARC database.
ND - Not detected at a level above the noted concentration.
* - MTCA Method A cleanup level for gasoline range petroleum hydrocarbons, when benzene is present. If benzene is not present, the Method A cleanup level is 1,000 ug/l.

The sample from RW-2 contained a concentration of 11 ug/l of benzene, 4.3 ug/l of xylenes and 71 ug/l of diesel range petroleum hydrocarbons, with no other detections of the analyzed parameters. The detected benzene concentration exceeds the applicable Washington Model Toxics Control Act (MTCA) Method A groundwater cleanup criteria of 5 ug/l for benzene. The diesel fraction was flagged by the laboratory as not resembling the laboratory standard for diesel, suggesting organic material or degraded petroleum from another range interfered with the analysis. This site in the Kent Valley has soil with a relatively high organic content that influences the NWTPH-D(x) test method.

Additional Monitoring Well Sampling

During the 2nd Quarter purge event on May 5th, monitoring wells MW-5, MW-6, MW-8, MW-13 and RW-1 were sampled. Monitoring wells MW-1, MW-3 and MW-10 were also sampled during the RW-2 sampling event on June 25th.

The samples were analyzed by Washington accepted methods for total petroleum hydrocarbons in the gasoline, diesel and oil ranges by Washington accepted methods. Samples from monitoring wells MW-5, MW-6, MW-8, MW-10, MW-13 and RW-1were also analyzed by method NWTPH-D(x) following a silica gel cleanup to remove non-polar organic material from the water samples. The laboratory analytical results are summarized in Table 3.

None of these other samples contained any detectable concentrations of gasoline range petroleum hydrocarbons or BTEX compounds. Samples from monitoring wells MW-1, MW-3, MW-5, MW-6, MW-8, MW-10 and MW-13 all contained diesel range petroleum hydrocarbons in the portion of the sample conducted without silica gel cleanup, demonstrating widespread interference of organic material with the test. Those samples were each flagged by the laboratory as not resembling the laboratory standard for diesel. Two samples (MW-8 and MW-13) also showed low but detectable concentrations of oil range petroleum hydrocarbons similarly flagged by the laboratory. The portion of each of those samples passed through silica gel did not contain any detectable diesel or oil range petroleum hydrocarbons.

Conclusions

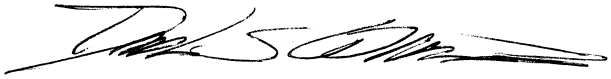
This sampling was conducted as part of compliance monitoring of the subject site. The current groundwater sampling shows evidence of benzene impacts in RW-2 exceeding Washington State groundwater cleanup criteria under the Model Toxics Control Act (Chapter 173-340 WAC). Monitoring well RW-2 is the only remaining well on the property that has a recent history of exceeding groundwater cleanup levels.

Additional quarterly monitoring will be conducted throughout 2020, following the same purge and sampling technique used in this quarter. Over the year at least one sample from each of the remaining on-site wells will also be collected to demonstrate continuing compliance throughout the site.

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 3 - Additional Groundwater Analytical Results Summary
Figure 1 - Site Location Map
Figure 2 - Groundwater Sample Location Plan and Inferred Groundwater Contours
Laboratory Analytical Reports- Friedman & Bruya, Inc.

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

Summary of Groundwater Level Data
FedEx Freight, Inc. Former Seattle Area Terminal
Kent, Washington

Date	*Monitoring Well*	*Water Level Relative to Top of Pipe (ft)*	*Total Depth of Well (ft)*	*Top of Pipe Elevation**	*Groundwater Elevation**
5-5-2020	MW-1	-6.93	15.2	98.68	91.75
	MW-2	-7.75	17.0	99.15	91.40
	MW-3	-7.71	18.5	99.01	91.30
	MW-5	-5.52	18.8	98.33	92.81
	MW-6	-5.12	21.6	98.02**	92.90
	MW-7	-7.87	18.2	99.14**	92.27
	MW-8	-7.20	18.4	98.47**	91.27
	MW-10	-6.86	25.6	97.63	90.77
	MW-13	-8.55	19.1	99.45	90.90
	RW-1	-6.29	19.6	98.11	91.82
	RW-2	-6.67	30.0	97.96	91.29

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.

Table 3 ***WES-1276***

FedEx Freight, Inc., Seattle Area Terminal

Summary of 2nd Quarter 2020 Groundwater Sample Analytical Results

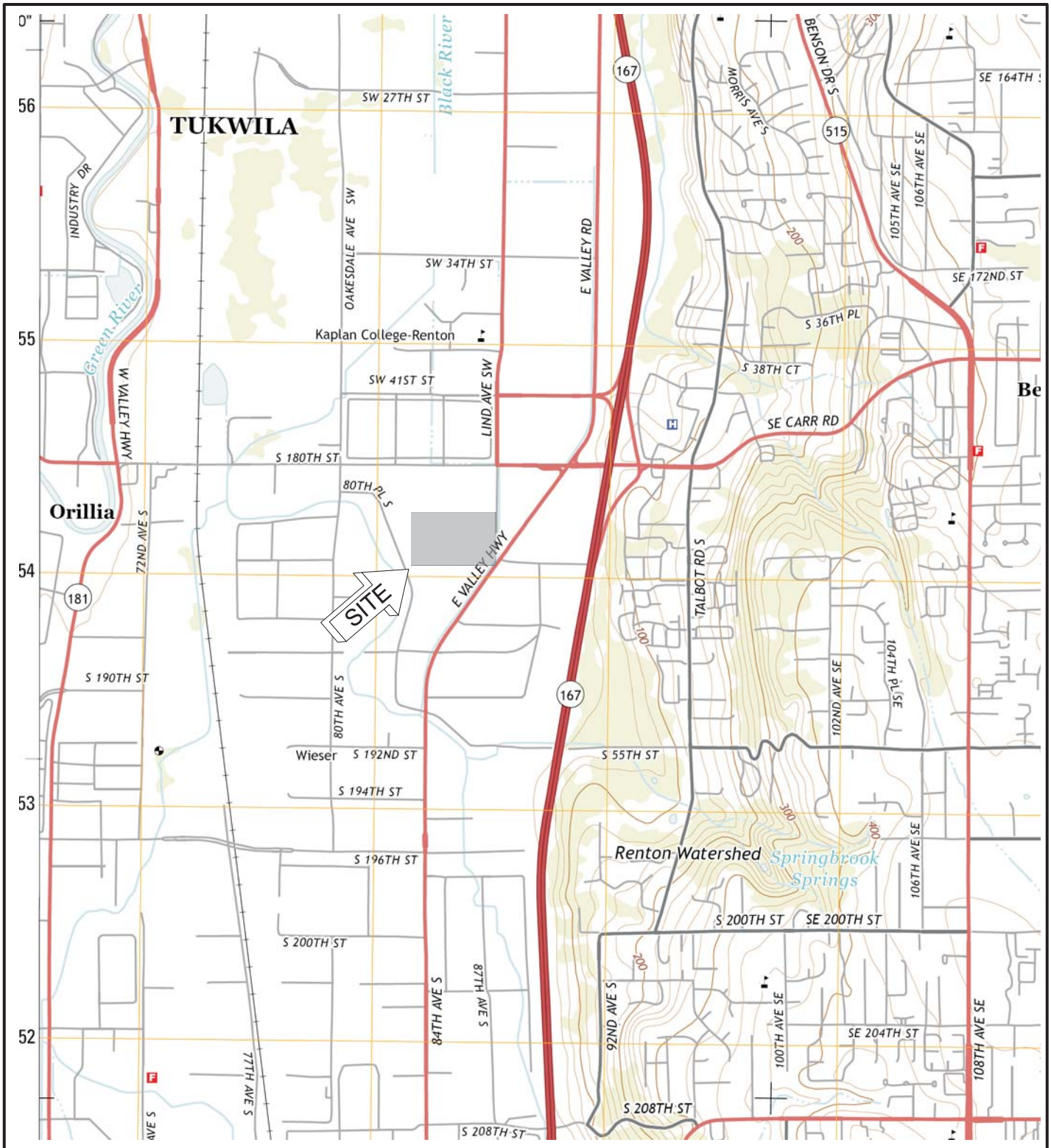
Sample I.D.	***Sample Date***	***Laboratory Analytical Results in ug/l (ppb)***					
		Diesel and Oil Range TPH NWTPH-D(x)	***Gasoline Range TPH NWTPH-G***	***Benzene***	***Toluene***	***Ethyl-benzene***	***Total Xylenes***
MW-1	6/25/2020	Diesel - 170[X] Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-2	Not Sampled						
MW-3	6/25/2020	Diesel - 310[X] Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-5	5/5/2020	Diesel - 130[X] Oil - ND(<250) With Silica Gel Cleanup Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-6	5/5/2020	Diesel - 130[X] Oil - ND(<250) With Silica Gel Cleanup Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-7	Not Sampled						
MW-8	5/5/2020	Diesel - 380[X] Oil - 430[X] With Silica Gel Cleanup Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
MW-10	6/25/2020	***Diesel - 700[x]*** Oil - ND(<250) With Silica Gel Cleanup 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 (NWTPH-Dx)	***Gasoline Range TPH (NWTPH-G)***	***Benzene***	***Toluene***	***Ethylbenzene***	***Total Xylenes***
MW-13	5/5/2020	Diesel - 360[X] Oil - 380[X] With Silica Gel Cleanup Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
RW-1	5/5/2020	Diesel - ND (<50) Oil - ND(<250) With Silica Gel Cleanup Diesel - ND(<50) Oil - ND(<250)	ND (<100)	ND (<1)	ND (<1)	ND (<1)	ND (<3)
RW-2	6/25/2020	Diesel - 71[X] Oil - ND(<250)	ND (<100)	***11***	ND (<1)	4.3	ND (<3)
Model Toxics Control Act Method A Groundwater Cleanup Level (ug/l)		***500***	***800****	***5***	***1,000***	***700***	***1,000***

Table 3 Notes:
Diesel and Oil Range total petroleum hydrocarbons conducted by Washington Method NWTPH-D(x). Analytical result reported with and without silica gel cleanup prior to analysis, where available.
Gasoline range total petroleum hydrocarbons by Northwest Method NWTPH-G.
BTEX Compounds by EPA Method 8021B.
[X] - Denotes laboratory flag on data - sample chromatogram does not resemble the fuel standard used for quantification. Commonly interpreted as native organic material in the sample or crossover from a different range of petroleum.

ND (<X.XXX) - Not Detected by Analysis at levels above the noted detection reporting limit.
*MTCA Method A cleanup level for gasoline range petroleum hydrocarbons, when benzene is present. If benzene is not present, Method A cleanup level is 1,000 ug/l.

Sample results exceeding applicable cleanup criteria are noted in ***Bold Italic***.



From USGS

Figure 1 - Site Map

Former FedEx Freight Terminal
18221 E. Valley Highway
Kent, Washington

Project No.	WES - 1276
Date	Aug 2, 2016
File ID.	1276F1

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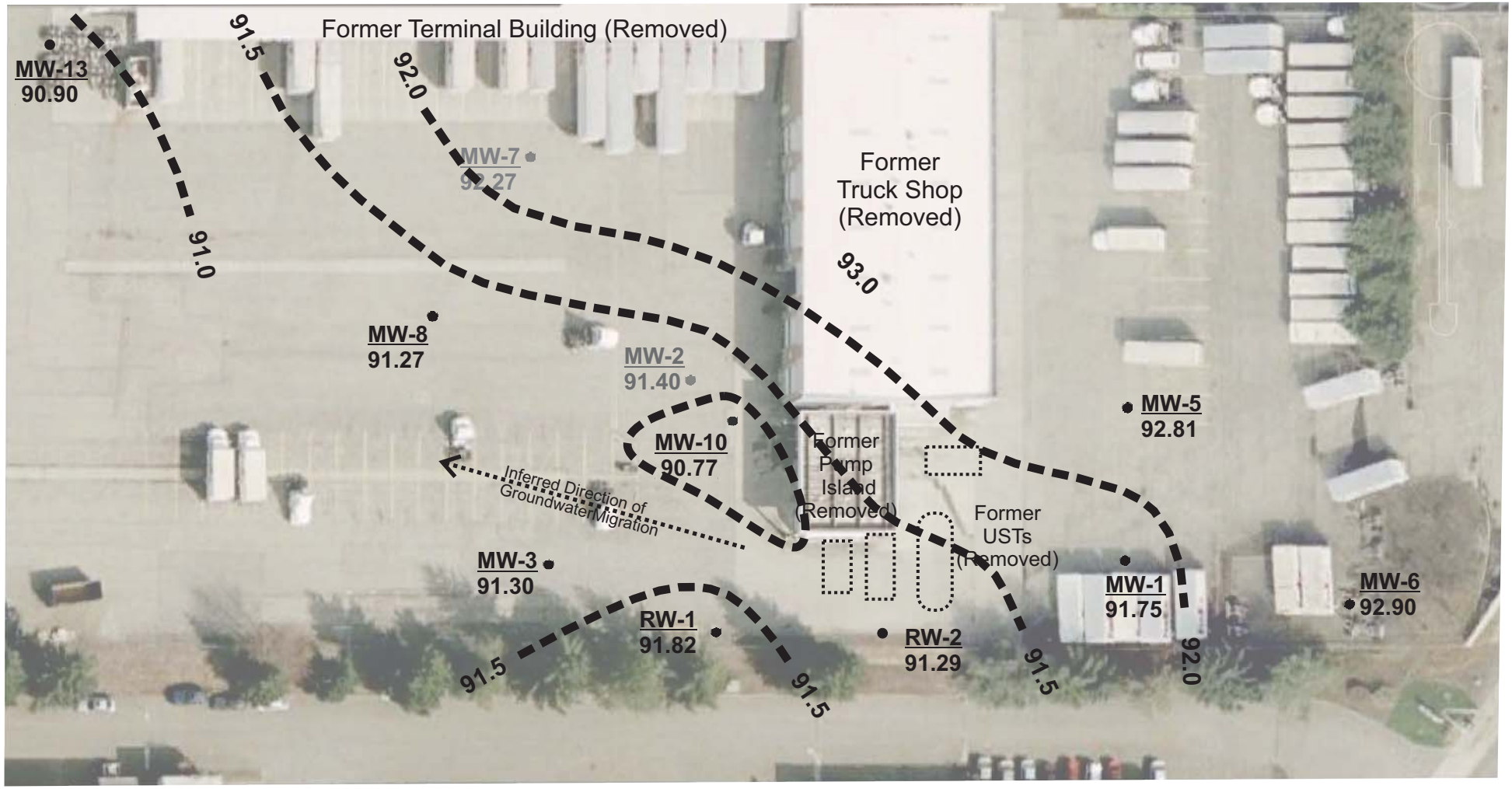

Legend

- Approximate Location of Sampled Monitoring Wells, 2nd Quarter 2020
- Approximate Location of Other Site Monitoring Wells
- Inferred Groundwater Surface Contour Measurements on 5/5/2020
- **MW-8 / 91.27** Well I.D. and Relative Groundwater Elevation

0 80

Scale 1" = Approx. 80 feet

North

Figure 2 - Site and Groundwater Sample Location Plan
Former FedEx Freight, Inc. Kent Terminal
18221 E. Valley Highway
Kent, Washington

Project No.	WES - 1276
Date	June 7, 2020
File ID.	1276F2

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Environmental Sciences

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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Eric Young, B.S.

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May 11, 2020

Dan Whitman, Project Manager
Whitman Environmental Sciences
6812 16th Ave NE
Seattle, WA 98115

Dear Mr Whitman:

Included are the results from the testing of material submitted on May 5, 2020 from the WES 1276, F&BI 005056 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. 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
WES0511R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on May 5, 2020 by Friedman & Bruya, Inc. from the Whitman Environmental Sciences WES 1276, F&BI 005056 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Whitman Environmental Sciences
005056 -01	MW-5-GW
005056 -02	MW-6-GW
005056 -03	MW-8-GW
005056 -04	MW-13-GW
005056 -05	RW-1-GW

All quality control requirements were acceptable.

Date of Report: 05/11/20
Date Received: 05/05/20
Project: WES 1276, F&BI 005056
Date Extracted: 05/06/20
Date Analyzed: 05/07/20

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 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 52-124)
MW-5-GW 005056-01	<1	<1	<1	<3	<100	92
MW-6-GW 005056-02	<1	<1	<1	<3	<100	93
MW-8-GW 005056-03	<1	<1	<1	<3	<100	89
MW-13-GW 005056-04	<1	<1	<1	<3	<100	95
RW-1-GW 005056-05	<1	<1	<1	<3	<100	93
Method Blank 00-873 MB	<1	<1	<1	<3	<100	93

Date of Report: 05/11/20
Date Received: 05/05/20
Project: WES 1276, F&BI 005056
Date Extracted: 05/06/20
Date Analyzed: 05/06/20

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-5-GW 005056-01	<50	<250	95
MW-6-GW 005056-02	<50	<250	95
MW-8-GW 005056-03	<50	<250	93
MW-13-GW 005056-04	<50	<250	100
RW-1-GW 005056-05	<50	<250	112
Method Blank 00-1027 MB2	<50	<250	94

Date of Report: 05/11/20
Date Received: 05/05/20
Project: WES 1276, F&BI 005056
Date Extracted: 05/06/20
Date Analyzed: 05/06/20

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

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 41-152)
MW-5-GW 005056-01	130 x	<250	99
MW-6-GW 005056-02	130 x	<250	99
MW-8-GW 005056-03	380 x	430 x	89
MW-13-GW 005056-04	360 x	380 x	105
RW-1-GW 005056-05	<50	<250	100
Method Blank 00-1027 MB2	<50	<250	93

Date of Report: 05/11/20
Date Received: 05/05/20
Project: WES 1276, F&BI 005056

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: 005040-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (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	97	65-118
Toluene	ug/L (ppb)	50	96	72-122
Ethylbenzene	ug/L (ppb)	50	99	73-126
Xylenes	ug/L (ppb)	150	95	74-118
Gasoline	ug/L (ppb)	1,000	107	69-134

Date of Report: 05/11/20
Date Received: 05/05/20
Project: WES 1276, F&BI 005056

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	100	105	61-133	5

Date of Report: 05/11/20
Date Received: 05/05/20
Project: WES 1276, F&BI 005056

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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	100	116	63-142	15

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.

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 the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were 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 analyte 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 with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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.

005056

SAMPLE CHAIN OF CUSTODY

ME 05/05/20 VW2/A05

Page # ____ of ____

Report To [illegible]

Company [illegible]

Address [illegible]

City, State, ZIP [illegible]

Phone ____ Email [illegible]

SAMPLERS (*signature*)

PROJECT NAME: [illegible]

PO #: [illegible]

REMARKS

Project specific RLs? - Yes / No

INVOICE TO

TURNAROUND TIME
- ☒ Standard turnaround
- ☐ RUSH ____
- Rush charges authorized by: ____

SAMPLE DISPOSAL
- ☐ Archive samples
- ☐ Other ____
- Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082					Notes
5 PBS/6																	
MW-5-GW	01A-D	5-5-20		WATER	4	X	X	X									
MW-6-GW	02A-D	"			4												
MW-8-GW	03A-D	"			4												
MW-13-GW	04A-E	"			6												TPH WITH AND WITHOUT SILICA GEL CLEANUP PLEASE
EB-1-GW	05A-D	"			4												
													Samples received at 3 °C				

ANALYSES REQUESTED

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	[illegible]		[illegible]	5-5-20	5:45
Received by:	[illegible]	BISKAT TADESSE	FBI	1	1
Relinquished by:					
Received by:					

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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

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July 6, 2020

Dan Whitman, Project Manager
Whitman Environmental Sciences
6812 16th Ave NE
Seattle, WA 98115

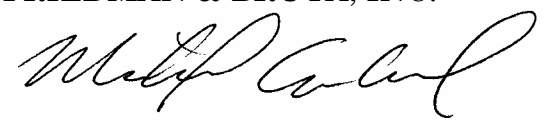
Dear Mr Whitman:

Included are the results from the testing of material submitted on June 26, 2020 from the FedEx Old Kent PO WES 1276, F&BI 006459 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. 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
WES0706R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 26, 2020 by Friedman & Bruya, Inc. from the Whitman Environmental Sciences FedEx Old Kent PO WES 1276, F&BI 006459 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Whitman Environmental Sciences
006459 -01	RW-2-GW
006459 -02	MW-1-GW
006459 -03	MW-3-GW
006459 -04	MW-10-GW

All quality control requirements were acceptable.

Date of Report: 07/06/20
Date Received: 06/26/20
Project: FedEx Old Kent PO WES 1276, F&BI 006459
Date Extracted: 06/26/20
Date Analyzed: 06/29/20

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 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)
RW-2-GW 006459-01	11	<1	4.1	<3	<100	79
MW-1-GW 006459-02	<1	<1	<1	<3	<100	77
MW-3-GW 006459-03	<1	<1	<1	<3	<100	81
MW-10-GW 006459-04	<1	<1	<1	<3	<100	80
Method Blank 00-1324 MB	<1	<1	<1	<3	<100	94

Date of Report: 07/06/20
Date Received: 06/26/20
Project: FedEx Old Kent PO WES 1276, F&BI 006459
Date Extracted: 06/26/20
Date Analyzed: 07/01/20

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 41-152)
MW-10-GW 006459-04	<50	<250	89
Method Blank 00-1470 MB2	<50	<250	89

Date of Report: 07/06/20
Date Received: 06/26/20
Project: FedEx Old Kent PO WES 1276, F&BI 006459
Date Extracted: 06/26/20
Date Analyzed: 06/26/20

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

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 41-152)
RW-2-GW 006459-01	71 x	<250	104
MW-1-GW 006459-02	170 x	<250	100
MW-3-GW 006459-03	310 x	<250	103
MW-10-GW 006459-04	700 x	<250	90
Method Blank 00-1470 MB2	<50	<250	88

Date of Report: 07/06/20
Date Received: 06/26/20
Project: FedEx Old Kent PO WES 1276, F&BI 006459

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: 006443-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (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	98	65-118
Toluene	ug/L (ppb)	50	99	72-122
Ethylbenzene	ug/L (ppb)	50	105	73-126
Xylenes	ug/L (ppb)	150	103	74-118
Gasoline	ug/L (ppb)	1,000	106	69-134

Date of Report: 07/06/20
Date Received: 06/26/20
Project: FedEx Old Kent PO WES 1276, F&BI 006459

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

Laboratory Code: Laboratory Control Silica Gel Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	88	92	63-142	4

Date of Report: 07/06/20
Date Received: 06/26/20
Project: FedEx Old Kent PO WES 1276, F&BI 006459

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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	92	96	61-133	4

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.

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 the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were 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 analyte 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 with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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.

006459

SAMPLE CHAIN OF CUSTODY ME 06/26/20

VW2/D04

Report To [illegible]

Company ANCHOR ENV SCIENCES

Address 615 16TH AVE NE

City, State, ZIP SEATTLE, WA 98125

Phone _____ Email KHITEN@ANCHORENV.COM

SAMPLERS (*signature*)

PROJECT NAME: FORMER OLD KENT

PO #: DES 1276

REMARKS

Project specific RLs? - Yes / No

INVOICE TO

Page # _____ of _____

TURNAROUND TIME
- [X] Standard turnaround
- [ ] RUSH _____
- Rush charges authorized by: _____

SAMPLE DISPOSAL
- [ ] Archive samples
- [ ] Other _____
- Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082				Notes
RD-2-GD	01 A-E	6-25-20	PM	WATER	5	X	X	X								
MW-1-GD	02 A-D				4	X	X	X								
MW-3-GD	03 A-D				4	X	X	X								
MW-10-GD	04 A-E				5	X	X	X								DO NOT RUN WITH NAPH WITHOUT SILICAGEL

Samples received at 18 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		ANCHOR	6-26-20	16:40
Received by:	Ann Wobber Bruya	F&B		
Relinquished by:				
Received by:				

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