



June 22, 2017

Project 691718096-0

ERTS Coordinator
Washington State Department of Ecology
Northwest Regional Office
3190 160th Avenue SE
Bellevue, Washington 98008

**Subject: Limited UST Environmental Site Assessment
Notice of Release under WAC 173-340-450**
Transportation Facility
Central Kitsap School District
Silverdale, Washington

Dear Ecology ERTS Coordinator:

Enclosed please find a copy of the Limited UST Environmental Site Assessment letter report prepared by Amec Foster Wheeler Environment & Infrastructure, Inc. (on behalf of the Central Kitsap School District). This report summarizes soil sampling and analysis at the Transportation Department property located at 10170 Frontier Place NW in Silverdale, Washington (the site).

The purpose of this investigation was to do a preliminary evaluation of soil conditions in the vicinity of the three USTs associated with the maintenance, repair, and refueling of the Central Kitsap School District's bus and grounds fleet:

- 12,000-gallon gasoline UST;
- 12,000-gallon diesel UST; and
- 500-gallon waste oil UST associated with maintenance and repair.

A total of nine soil borings were drilled using a hollow-stem auger: seven borings were advanced to a depth of 20 feet around the diesel and gasoline USTs, and two additional borings were advanced around the waste oil tank. All the diesel range organic concentrations were below detection limits, as were all the gasoline fuel additives. However, concentrations of TPH-G and BTEX above applicable MTCA Method A cleanup levels were present in samples from three borings.

The Central Kitsap School District is currently researching the inventory control and tank testing records to ascertain the potential source. In addition, planning is underway to take the gasoline UST system out of service this summer. The diesel UST and the waste oil UST will also be taken out of service.

The Central Kitsap School District is currently in design and permitting to demolish the building and fully decommission the three USTs. Contaminated soil encountered during UST decommissioning will be removed and disposed at a licensed landfill.

Amec Foster Wheeler Environment & Infrastructure, Inc.
600 University Street, Suite 600
Seattle, Washington
USA 98101-4107
Tel (206) 342-1760
Fax (206) 342-1761
www.amecfw.com



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This communication serves as the notice of release and site characterization reporting under WAC 173-340-450. Once decommissioning and remediation of the UST systems occur, the Central Kitsap School District will send a remediation closure report and appropriate decommissioning forms.

Sincerely,
Amec Foster Wheeler Environment & Infrastructure, Inc.

A handwritten signature in blue ink that reads "Kathleen Goodman".

Kathleen Goodman, LG, LHg
Principal Hydrogeologist
Direct Tel.: (206) 342-1780
E-mail: kathleen.goodman@amecfw.com

A handwritten signature in blue ink that reads "C. Jefferson".

Chelsea Jefferson, LG, LHg
Senior Hydrogeologist
Direct Tel.: (206) 342-1775
E-mail: chelsea.jefferson@amecfw.com

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Enclosure: Limited UST Environmental Site Assessment

cc: Robin Shoemaker, Central Kitsap School District, robinsh@ckschools.org; 360-662-8272
Sydney Thiel, Central Kitsap School District, sydneyt@ckschools.org; 360-662-1705
Joe Vlach, Central Kitsap School District, joev@ckschools.org; 360-662-1617



June 22, 2017

Project 6-917-18096-0

Ms. Sydney Thiel
Central Kitsap School District
9210 Silverdale Way NW
Silverdale, WA 98383

Subject: Limited UST Environmental Site Assessment
Transportation Department Site
Central Kitsap School District
Silverdale, Washington

Dear Ms. Thiel:

Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), is pleased to submit this letter report on behalf of the Central Kitsap School District. This report summarizes results of soil sampling conducted at the Transportation Department property located at 10170 Frontier Place NW in Silverdale, Washington (the site). It is Amec Foster Wheeler's understanding that there is planned redevelopment of the site that will require the removal of the existing underground storage tanks (USTs), along with associate piping and a dispenser island.

The purpose of this investigation was to evaluate soil conditions in the vicinity of the three USTs associated with the maintenance, repair, and refueling of the Central Kitsap School District's bus and grounds fleet:

- 12,000-gallon gasoline UST;
- 12,000-gallon diesel UST; and
- 500-gallon waste oil UST associated with maintenance and repair.

FIELD METHODS

Amec Foster Wheeler staff met Applied Professional Services, Inc. (APS), on site on April 5, 2017. APS performed underground utility locate services using magnetic and ground penetrating radar (GPR) surveys. Based on the results of the GPR survey, Amec Foster Wheeler believes that the diesel and gasoline USTs are oriented east-west, with the diesel UST to the south and the gasoline UST to the north, and are located approximately five feet below ground surface. The waste oil tank is approximately two to three feet below ground surface (bgs). The estimated location of the USTs are displayed on Figure 1.

Amec Foster Wheeler staff met Cascade Drilling, Inc. (Cascade Drilling), on site on April 6 and 7, 2017. Cascade Drilling advanced a total of nine soil borings using a hollow-stem auger drill rig. Borings TD-1 through TD-7 were advanced to a depth of 20 feet bgs around the diesel and gasoline USTs. Two additional borings, TD-8 and TD-9, were advanced around the waste oil tank to a depth of approximately 15 feet bgs (Figure 1). Samples were collected from the bottom of all borings. In

Ms. Sydney Thiel
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Borings TD-3 and TD-4, samples also were collected at 15 feet bgs. In Boring TD-6, a sample was collected from 10 feet bgs.

All soil borings were logged in the field by an Amec Foster Wheeler field geologist. Boring logs were reviewed by a senior geotechnical engineer and are enclosed as Appendix A to this report. Discrete soil samples were collected from the bottom of each boring and/or where field observations, including those made using a photoionization detector, indicated the potential of soil contamination.

Investigation-derived waste contained in 55-gallon drums was securely stored on the northeast corner of the site. It is Amec Foster Wheeler's understanding that these drums will be disposed of during demolition and UST removal work.

ANALYTICAL TESTING

Soil samples collected from around the USTs were initially selected for analysis based on their relative location to the specific source as well as field observations.

- Soil samples collected from around the waste oil UST were analyzed for diesel-range, lube oil-range and motor oil-range total petroleum hydrocarbons (TPH) by Method NWTPH-Dx.
- Samples chosen for their potential to be impacted by diesel-range TPH (TPH-D) were analyzed by Method NWTPH-Dx.
- Samples chosen for their potential to be impacted by gasoline-range TPH (TPH-G) were analyzed by Method NWTPH-Gx and SW8021B for volatile organic compounds benzene, toluene, ethylbenzene, and total xylenes (BTEX).

Soil samples were transported to Friedman & Bruya Analytical, Inc. (Friedman & Bruya), laboratory for analysis.

In order to better evaluate soil conditions at the site, additional analysis of TPH-G and BTEX were performed on select soil samples from borings around the gasoline and diesel USTs that were not part of the initial analysis. The sample with the highest concentration of TPH-G from the initial analysis was further analyzed for the following fuel additives: methyl tert-butyl ether (MTBE), 1,2-dibromothane (EDB), and 1,2-dichloroethane (EDC) by Method 8260C.

FINDINGS

TPH-G and BTEX were found in samples collected from borings TD-1, TD-2, and TD-6, located on the western side of the diesel and gasoline tank USTs. This is where fuel lines from the dispenser island for both USTs are located. Concentrations exceeding the Model Toxics Control Act (MTCA) Method A cleanup level of 30 milligrams per kilogram (mg/kg) for TPH-G in soil were identified in samples from the bottom of these borings (approximately 20 feet bgs). The highest concentration of TPH-G was 640 mg/kg identified in boring TD-2. Concentrations of BTEX constituents above respective MTCA Method A cleanup levels were identified in samples collected from TD-1 and TD-2. The sample collected from TD-2 had the only detected concentration of benzene, which exceeded MTCA Method A cleanup.

Ms. Sydney Thiel
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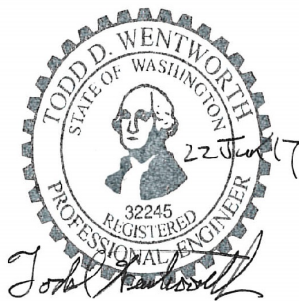
Results of the analysis for fuel additives MTBE, EDB, and EDC were non-detect. All samples analyzed for TPH-D were non-detect. Analytical results for TPH and BTEX are presented on Figure 2 and in Table 1. The Friedman & Bruya laboratory reports are enclosed as Appendix B.

CONCLUSIONS

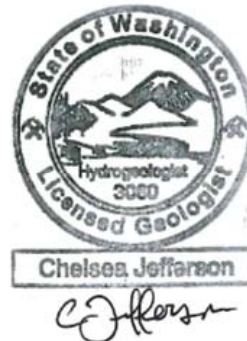
During this investigation, Amec Foster Wheeler identified concentrations of TPH-G and BTEX above applicable MTCA Method A cleanup levels in site soils. Soil samples collected from borings TD-1, TD-2, and TD-3 had elevated concentrations of TPH-G. In addition, soil samples from TD-1 and TD-2 had elevated concentrations of BTEX constituents. Soil samples exceeding both TPH-G and BTEX cleanup level were collected from a depth of 20 feet bgs. As this was the approximate total depth of these borings, the vertical extent of the TPH-G has not been determined. In addition, because no soil borings were located further west of the diesel and gasoline USTs, where the fuel lines and dispenser island are located, the horizontal extent of TPH-G and BTEX cannot be defined with certainty.

Sincerely,

Amec Foster Wheeler Environment & Infrastructure, Inc.



Todd Wentworth, PE, LG
Senior Associate
Direct Tel.: (425) 368-0938
E-mail: todd.wentworth@amecfw.com



Chelsea Jefferson, LG, LHg
Senior Hydrogeologist
Direct Tel.: (206) 342-1775
E-mail: chelsea.jefferson@amecfw.com

CJ:lpn

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Enclosures: Table 1 – Soil Analytical Results
Figure 1 – Boring Locations
Figure 2 – Boring Locations and Analytical Results
Appendix A – Boring Logs
Appendix B – Laboratory Reports

TABLES

TABLE 1

SOIL ANALYTICAL RESULTS
Central Kitsap School District - Transportation Department Site
Silverdale, Washington

Concentrations in milligrams per kilogram (mg/kg)

Boring Number	Sample ID	Date Sampled	TPH-D	TPH-MO	TPH-G	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC
MTCA Method A Cleanup Level for Soil			2,000	2,000	30	0.03	7	6	9			
TD-1	TD-1-20	4/6/17	--	--	530	< 0.11	16	10	56	--	--	--
TD-2	TD-2-20	4/6/17	--	--	640	0.43	11	10	49	< 0.005	< 0.005	< 0.005
TD-3	TD-3-15	4/6/17	--	--	< 2	< 0.02	< 0.02	< 0.02	< 0.06	--	--	--
	TD-3-20	4/6/17	< 50	< 250	--	--	--	--	--	--	--	--
TD-4	TD-4-15	4/6/17	--	--	< 2	< 0.02	< 0.02	< 0.02	< 0.06	--	--	--
	TD-4-20	4/6/17	< 50	< 250	--	--	--	--	--	--	--	--
TD-5	TD-5-20	4/6/17	< 50	< 250	--	--	--	--	--	--	--	--
TD-6	TD-6-10	4/7/17	--	--	9.1	< 0.02	< 0.02	< 0.02	< 0.06	--	--	--
	TD-6-20	4/7/17	--	--	85	< 0.02	0.22	0.061	0.44	--	--	--
TD-7	TD-7-20	4/7/17	--	--	< 2	< 0.02	< 0.02	< 0.02	< 0.06	--	--	--
TD-8	TD-8-15	4/7/17	< 50	< 250	--	--	--	--	--	--	--	--
TD-9	TD-9-15	4/7/17	< 50	< 250	--	--	--	--	--	--	--	--

Notes:

1. Concentrations that exceed the applicable MTCA Method A cleanup level are shown in **bold type**.

Abbreviations:

-- = not sampled

< = the concentration is below the method detection limit

EDB / EDC = 1,2-dibromothane / 1,2-dichloroethane

MTBE = methyl tert-butyl ether

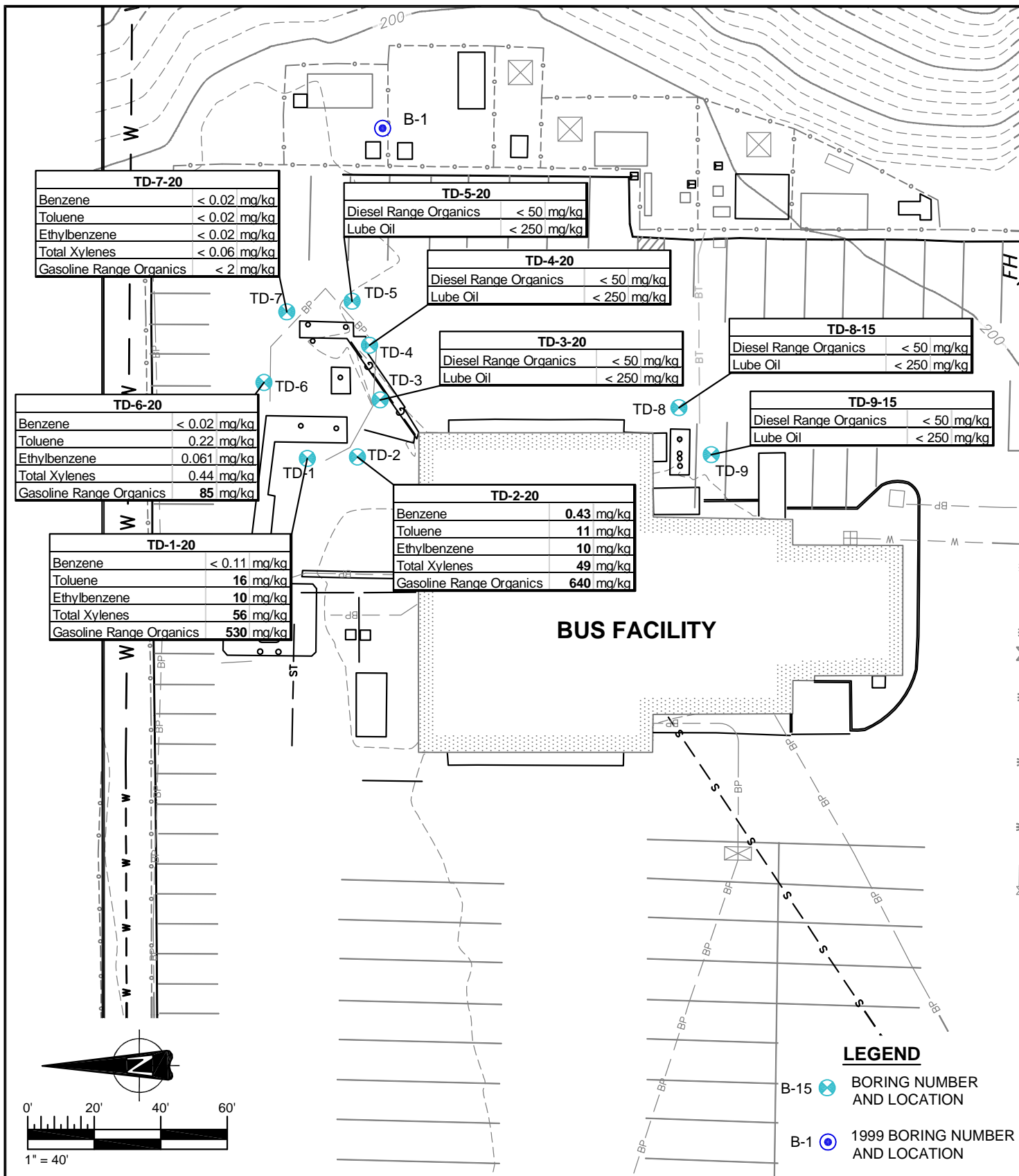
MTCA = Model Toxics Control Act

TPH-D = total petroleum hydrocarbons in the diesel range

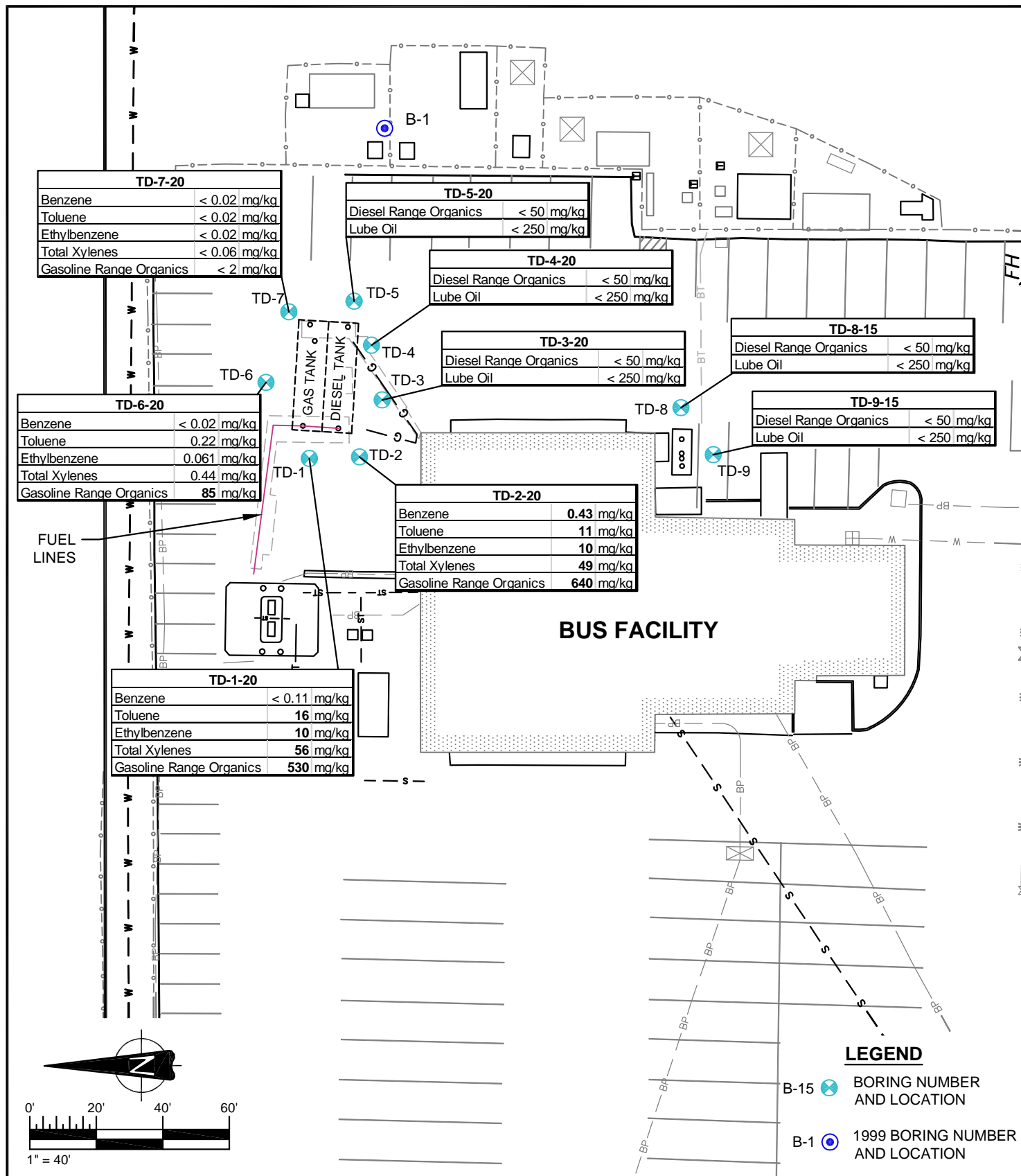
TPH-G = total petroleum hydrocarbon in the gasoline range


TPH-MO = total petroleum hydrocarbons in the motor oil range

FIGURES



CLIENT CENTRAL KITSAP SCHOOL DISTRICT		PROJECT CENTRAL KITSAP HIGH SCHOOL AND MIDDLE SCHOOL CAMPUS	DATE APRIL 2017
Amec Foster Wheeler Environment & Infrastructure, Inc. 11810 North Creek Parkway North Bothell, WA 98011		TITLE TRANSPORTATION DEPARTMENT UST INVESTIGATION BORING LOCATIONS	SCALE AS SHOWN PROJECT NO. 6-917-18096-0 FIGURE 1



CLIENT CENTRAL KITSAP SCHOOL DISTRICT	 amec foster wheeler	PROJECT CENTRAL KITSAP HIGH SCHOOL AND MIDDLE SCHOOL CAMPUS	DATE JUNE 2017
Amec Foster Wheeler Environment & Infrastructure, Inc. 11810 North Creek Parkway North Bothell, WA 98011		TITLE TRANSPORTATION DEPARTMENT UST INVESTIGATION BORING LOCATIONS AND ANALYTICAL RESULTS	SCALE AS SHOWN PROJECT NO. 6-917-18096-0 FIGURE 2

DRAWN BY: APS CHECKED BY: JKH

APPENDIX A

Boring Logs

PROJECT: Central Kitsap School District Transportation Department UST Investigation					Log of Boring No. TD-1			
BORING LOCATION:					ELEVATION AND DATUM: Not measured			
DRILLING CONTRACTOR: Cascade Drilling, Inc.					DATE STARTED: 4/6/17		DATE FINISHED: 4/6/17	
DRILLING METHOD: Hollow-stem auger					TOTAL DEPTH (ft.): 20.5		MEASURING POINT: Ground surface	
DRILLING EQUIPMENT: CME 75					DEPTH TO WATER (ft.)		FIRST NA	COMPL. NA
SAMPLING METHOD: Split-spoon drive sampler [18" x 1.5"]					LOGGED BY: C. Jefferson, LHG			
HAMMER WEIGHT: 150 lbs			DROP: 30"		RESPONSIBLE PROFESSIONAL: C. Jefferson, LHG			REG. NO. 3060

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation:	
					Asphalt at surface	
1					SILTY SAND (SM): dark gray (10YR 4/1), with yellowish brown (10YR 4/4) mottling, moist, 80% fine sand, 15% low plasticity fines, 5% fine sub-angular to sub-rounded gravel [REWORKED TILL]	
2						
3						
4						
5				0.0		
6			23 50			
7						
8						
9						
10				18.2	10% fine sub-angular to sub-rounded gravel	
11			21 24 22			
12						
13					POORLY-GRADED SAND with SILT and GRAVEL (SP-SM): dark gray (10YR 4/1), wet at 15', moist at 15.5', 65% fine sand, 25% fine to coarse, sub-angular to sub-rounded gravel, 10% low plasticity fines [TILL]	
14						
15						

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Log of Boring No. TD-1 (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
16	TD-1-20		41	88.3	Continued: POORLY-GRADED SAND with SILT and GRAVEL	Discrete sample TD-1-20 was collected from 20' BGS for TPH-G, BTEX
17			50			
18						
19						
20						
20			50	186		
21						
22						
23						
24						
25						
26						
27					Boring completed at 20.5' BGS and backfilled with bentonite chips. An asphalt patch was applied at ground surface.	
28						
29						
30						
31						
32						
33						

PROJECT: Central Kitsap School District Transportation Department UST Investigation					Log of Boring No. TD-2			
BORING LOCATION:					ELEVATION AND DATUM: Not measured			
DRILLING CONTRACTOR: Cascade Drilling, Inc.					DATE STARTED: 4/6/17		DATE FINISHED: 4/6/17	
DRILLING METHOD: Hollow-stem auger					TOTAL DEPTH (ft.): 21.0		MEASURING POINT: Ground surface	
DRILLING EQUIPMENT: CME 75					DEPTH TO WATER (ft.)		FIRST NA	COMPL. NA
SAMPLING METHOD: Split-spoon drive sampler [18" x 1.5"]					LOGGED BY: C. Jefferson, LHG			
HAMMER WEIGHT: 150 lbs			DROP: 30"		RESPONSIBLE PROFESSIONAL: C. Jefferson, LHG			REG. NO. 3060

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation:	
					Asphalt at surface	
1					SILTY SAND (SM): grayish brown (10YR 5/2), with yellowish brown (10YR 5/4) mottling, moist, 75% fine sand, 15% low plasticity fines, 10% fine sub-angular to sub-rounded gravel, some organics [REWORKED TILL]	
2						
3						
4						
5				1.2		
6			31	50		
7						
8					SILTY SAND with GRAVEL (SM): dark gray (10YR 4/1), moist, 65% fine sand, 20% fine sub-angular to sub-rounded gravel, 15% low plasticity fines [TILL]	
9						
10				1.6		
11			27	50		
12						
13						
14						
15						

OAKBORE (REV. 3/2015)

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PROJECT: Central Kitsap School District
Transportation Department UST Investigation

Log of Boring No. TD-2 (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
16	TD-2-20		47	774	Continued: SILTY SAND with GRAVEL some broken rock	Discrete sample TD-2-20 was collected from 20' BGS for TPH-G, BTEX
17			50			
18						
19						
20						
21						
22						
23						
24						
25						
26					Boring completed at 21' BGS and backfilled with bentonite chips. An asphalt patch was applied at ground surface.	
27						
28						
29						
30						
31						
32						
33						

OAKBOREV (REV. 3/2015)

PROJECT: Central Kitsap School District Transportation Department UST Investigation					Log of Boring No. TD-3			
BORING LOCATION:					ELEVATION AND DATUM: Not measured			
DRILLING CONTRACTOR: Cascade Drilling, Inc.					DATE STARTED: 4/6/17		DATE FINISHED: 4/6/17	
DRILLING METHOD: Hollow-stem auger					TOTAL DEPTH (ft.): 20.5		MEASURING POINT: Ground surface	
DRILLING EQUIPMENT: CME 75					DEPTH TO WATER (ft.)		FIRST NA	COMPL. NA
SAMPLING METHOD: Split-spoon drive sampler [18" x 1.5"]					LOGGED BY: C. Jefferson, LHG			
HAMMER WEIGHT: 150 lbs			DROP: 30"		RESPONSIBLE PROFESSIONAL: C. Jefferson, LHG			REG. NO. 3060

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation:	
					Asphalt at surface	
1						
2						
3						
4						
5				0.2		
6			18 30 50			
7						
8						
9						
10				0.8		
11			37 50		↓ gravel content increases, medium to coarse sand [TILL]	
12						
13						
14						
15						

Amec Foster Wheeler

Project No. 6-917-18096-0

OAKBOREV (REV. 3/2015)
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Log of Boring No. TD-3 (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
16	TD-3-15		30	21.7	Continued: SILTY SAND with GRAVEL moist to wet	Discrete sample TD-3-15 was collected from 15' for TPH-G, BTEX (HOLD)
17			50			
18						
19						
20	TD-3-20		80	152		Discrete sample TD-3-20 was collected from 20' for TPH-D
21					Boring completed at 20.5' BGS and backfilled with bentonite chips. An asphalt patch was applied at ground surface.	
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						

PROJECT: Central Kitsap School District Transportation Department UST Investigation					Log of Boring No. TD-4			
BORING LOCATION:					ELEVATION AND DATUM: Not measured			
DRILLING CONTRACTOR: Cascade Drilling, Inc.					DATE STARTED: 4/6/17		DATE FINISHED: 4/6/17	
DRILLING METHOD: Hollow-stem auger					TOTAL DEPTH (ft.): 20.5		MEASURING POINT: Ground surface	
DRILLING EQUIPMENT: CME 75					DEPTH TO WATER (ft.)		FIRST NA	COMPL. NA
SAMPLING METHOD: Split-spoon drive sampler [18" x 1.5"]					LOGGED BY: C. Jefferson, LHG			
HAMMER WEIGHT: 150 lbs			DROP: 30"		RESPONSIBLE PROFESSIONAL: C. Jefferson, LHG			REG. NO. 3060

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample Blows/ Foot	NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.			
					Surface Elevation:	
					Asphalt at surface	
1					SILTY SAND (SM): dark grayish brown (10YR 4/1), moist, 75% fine to medium sand, 15% low plasticity fines, 10% fine sub-angular to sub-rounded gravel [REWORKED TILL]	
2						
3						
4						
5				2.3		
6			26 26 40			
7						
8					POORLY-GRADED SAND with SILT and GRAVEL (SP-SM): dark grayish brown (10YR 4/1), moist, 70% fine to coarse sand, 20% fine to coarse sub-angular to sub-rounded gravel and disintegrated granite, 10% low plasticity fines [TILL]	
9						
10				8.3		
11			38 50			
12						
13						
14						
15						

OAKBORE (REV. 3/2015)

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Log of Boring No. TD-4 (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
15	TD-4-15		21	11.6	Continued: POORLY-GRADED SAND with SILT and GRAVEL ↓ moist to wet	Discrete sample TD-4-15 was collected from 15' for TPH-G, BTEX (HOLD)
16			50			
17						
18						
19						
20	TD-4-20		50	10.7	Boring completed at 20.5' BGS and backfilled with bentonite chips. An asphalt patch was applied at ground surface.	Discrete sample TD-4-20 was collected from 20' for TPH-D
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						

PROJECT: Central Kitsap School District Transportation Department UST Investigation					Log of Boring No. TD-5			
BORING LOCATION:					ELEVATION AND DATUM: Not measured			
DRILLING CONTRACTOR: Cascade Drilling, Inc.					DATE STARTED: 4/6/17		DATE FINISHED: 4/6/17	
DRILLING METHOD: Hollow-stem auger					TOTAL DEPTH (ft.): 20.5		MEASURING POINT: Ground surface	
DRILLING EQUIPMENT: CME 75					DEPTH TO WATER (ft.)		FIRST NA	COMPL. NA
SAMPLING METHOD: Split-spoon drive sampler [18" x 1.5"]					LOGGED BY: C. Jefferson, LHG			
HAMMER WEIGHT: 150 lbs			DROP: 30"		RESPONSIBLE PROFESSIONAL: C. Jefferson, LHG			REG. NO. 3060

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample Blows/ Foot	NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.			
					Surface Elevation:	
					Asphalt at surface	
1					POORLY-GRADED SAND with SILT (SP-SM): grayish brown (10YR 5/2), moist, 80% fine to coarse sand, 10% low plasticity fines, 10% fine sub-angular to sub-rounded gravel [REWORKED TILL]	
2						
3						
4						
5				0.1		
6			23 50			
7						
8					POORLY-GRADED SAND with SILT and GRAVEL (SP-SM): grayish brown (10YR 5/2), moist, 75% fine to medium sand, 15% fine sub-angular to sub-rounded gravel, 10% low plasticity fines [FILL]	
9						
10				0.4		
11			36 50			
12						
13					SILTY SAND with GRAVEL (SM): dark gray (5Y 4/1), some dark olive gray (5Y 3/2) mottling, 65% fine to coarse sand, 20% fine sub-angular to sub-rounded gravel, 15% low plasticity fines [FILL]	
14						
15						

Amec Foster Wheeler		Project No. 6-917-18096-0	OAKBORE (REV. 3/2015) Page 1 of 2
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Log of Boring No. TD-5 (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
16	TD-5-20		49	1.2	Continued: SILTY SAND with GRAVEL	
17			50			
18						
19						
20			50	3.7		
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
					Boring completed at 20.5' BGS and backfilled with bentonite chips. An asphalt patch was applied at ground surface.	Discrete sample TD-5-20 was collected from 20' for TPH-D

PROJECT: Central Kitsap School District Transportation Department UST Investigation					Log of Boring No. TD-6			
BORING LOCATION:					ELEVATION AND DATUM: Not measured			
DRILLING CONTRACTOR: Cascade Drilling, Inc.					DATE STARTED: 4/7/17		DATE FINISHED: 4/7/17	
DRILLING METHOD: Hollow-stem auger					TOTAL DEPTH (ft.): 20.5		MEASURING POINT: Ground surface	
DRILLING EQUIPMENT: CME 75					DEPTH TO WATER (ft.)		FIRST NA	COMPL. NA
SAMPLING METHOD: Split-spoon drive sampler [18" x 1.5"]					LOGGED BY: C. Jefferson, LHG			
HAMMER WEIGHT: 150 lbs			DROP: 30"		RESPONSIBLE PROFESSIONAL: C. Jefferson, LHG			REG. NO. 3060

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample Blows/ Foot	NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.			
					Surface Elevation:	
					Asphalt at surface	
1					POORLY-GRADED SAND (SP): gray (10YR 5/1), moist, 85% fine to coarse sand, 10% fine sub-angular to sub-rounded gravel, 5% low plasticity fines [REWORKED TILL]	
2						
3						
4						
5				1.0		
6		26 33 31				
7						
8					SILTY SAND with GRAVEL (SM): dark gray (10YR 4/1), moist, 70% fine to coarse sand, 15% fine sub-angular to sub-rounded gravel, 15% low plasticity fines [TILL]	
9						
10				36.6		
11		27 50				
12						
13						
14						
15						

TD-6-10

Discrete sample TD-6-10
was collected at 10' for
TPH-G, BTEX (HOLD)

OAKBOREV (REV. 3/2015)

Amec Foster Wheeler	Project No. 6-917-18096-0	Page 1 of 2
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PROJECT: Central Kitsap School District
Transportation Department UST Investigation

Log of Boring No. TD-6 (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
16	TD-6-20		50	4.4	Continued: SILTY SAND with GRAVEL ↓ gravel content increases, very dense	Discrete sample TD-6-20 was collected at 20' for TPH-G, BTEX
17						
18						
19						
20			50	163	moist to wet	
21					Boring completed at 20.5' BGS and backfilled with bentonite chips. An asphalt patch was applied at ground surface.	
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						

OAKBOREV (REV. 3/2015)

PROJECT: Central Kitsap School District Transportation Department UST Investigation					Log of Boring No. TD-7			
BORING LOCATION:					ELEVATION AND DATUM: Not measured			
DRILLING CONTRACTOR: Cascade Drilling, Inc.					DATE STARTED: 4/7/17		DATE FINISHED: 4/7/17	
DRILLING METHOD: Hollow-stem auger					TOTAL DEPTH (ft.): 20.5		MEASURING POINT: Ground surface	
DRILLING EQUIPMENT: CME 75					DEPTH TO WATER (ft.)		FIRST NA	COMPL. NA
SAMPLING METHOD: Split-spoon drive sampler [18" x 1.5"]					LOGGED BY: C. Jefferson, LHG			
HAMMER WEIGHT: 150 lbs			DROP: 30"		RESPONSIBLE PROFESSIONAL: C. Jefferson, LHG			REG. NO. 3060

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample Blows/ Foot	NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.			
					Surface Elevation:	
					Asphalt at surface	
1				2.5	POORLY-GRADED SAND with SILT and GRAVEL (SP-SM): gray (10YR 5/1), with light yellowish brown (10YR 6/4) mottling, moist, 70% fine to coarse sand, 20% fine sub-angular to sub-rounded gravel, 10% low plasticity fines [REWORKED TILL]	
2						
3						
4						
5						
6			15 19 30			
7				1.8	SILTY SAND with GRAVEL (SM): gray (10YR 5/1), moist, 70% fine to medium sand, 15% fine sub-angular to sub-rounded gravel, 15% low plasticity fines [REWORKED TILL]	
8						
9						
10						
11						
12			27 29 32			
13						
14						
15						


OAKBORE (REV. 3/2015)

Amec Foster Wheeler	Project No. 6-917-18096-0	Page 1 of 2
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Log of Boring No. TD-7 (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
16	TD-7-20		50	1.3	Continued: SILTY SAND with GRAVEL [TILL]	
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
			80	0.7	light brownish gray (10YR 6/2), Boring completed at 20.5' BGS and backfilled with bentonite chips. An asphalt patch was applied at ground surface.	Discrete sample TD-7-20 was collected at 20' for TPH-G, BTEX

PROJECT: Central Kitsap School District Transportation Department UST Investigation					Log of Boring No. TD-8			
BORING LOCATION:					ELEVATION AND DATUM: Not measured			
DRILLING CONTRACTOR: Cascade Drilling, Inc.					DATE STARTED: 4/7/17		DATE FINISHED: 4/7/17	
DRILLING METHOD: Hollow-stem auger					TOTAL DEPTH (ft.): 15.5		MEASURING POINT: Ground surface	
DRILLING EQUIPMENT: CME 75					DEPTH TO WATER (ft.)		FIRST NA	COMPL. NA
SAMPLING METHOD: Split-spoon drive sampler [18" x 1.5"]					LOGGED BY: C. Jefferson, LHG			
HAMMER WEIGHT: 150 lbs			DROP: 30"		RESPONSIBLE PROFESSIONAL: C. Jefferson, LHG		REG. NO. 3060	

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS	
	Sample No.	Sample Blows/ Foot	NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.				
					Surface Elevation:		
					Asphalt at surface		
1					SILTY SAND with GRAVEL (SM): gray (10YR 5/1), with dark yellowish brown (10YR 4/4) mottling, moist, 70% fine to medium sand, 15% fine sub-angular to sub-rounded gravel, 15% low plasticity fines [REWORKED TILL]		
2							
3							
4							
5				0.0			
6			3 4 7				
7							
8							
9							
10				18.2	 grayish brown (10YR 5/2), some broken rock [TILL]		
11			23 50				
12							
13							
14							
15							

Amec Foster Wheeler		Project No. 6-917-18096-0	OAKBOREv (REV. 3/2015) Page 1 of 2
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PROJECT: Central Kitsap School District
Transportation Department UST Investigation

Log of Boring No. TD-8 (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
15	TD-8-15		60	88.3	Continued: SILTY SAND with GRAVEL	Discrete sample TD-8-15 was collected at 15' for TPH-D
16					Boring completed at 15.5' BGS and backfilled with bentonite chips. An asphalt patch was applied at ground surface.	
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						

OAKBOREV (REV. 3/2015)

PROJECT: Central Kitsap School District Transportation Department UST Investigation					Log of Boring No. TD-9			
BORING LOCATION:					ELEVATION AND DATUM: Not measured			
DRILLING CONTRACTOR: Cascade Drilling, Inc.					DATE STARTED: 4/7/17		DATE FINISHED: 4/7/17	
DRILLING METHOD: Hollow-stem auger					TOTAL DEPTH (ft.): 16.0		MEASURING POINT: Ground surface	
DRILLING EQUIPMENT: CME 75					DEPTH TO WATER (ft.)		FIRST NA	COMPL. NA
SAMPLING METHOD: Split-spoon drive sampler [18" x 1.5"]					LOGGED BY: C. Jefferson, LHG			
HAMMER WEIGHT: 150 lbs			DROP: 30"		RESPONSIBLE PROFESSIONAL: C. Jefferson, LHG			REG. NO. 3060

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation:	
					Asphalt at surface	
1					SILTY SAND with GRAVEL (SM): dark grayish brown (10YR 4/2), with dark yellowish brown (10YR 4/6) mottling, moist, 70% fine to medium sand, 15% fine sub-angular to sub-rounded gravel, 15% low plasticity fines [REWORKED TILL]	
2						
3						
4						
5				0.1		
6			7 10 10			
7						
8						
9						
10				0.2	 grayish brown (10YR 5/2), [TILL]	
11			33 50			
12						
13						
14						
15						

OAKBORE (REV. 3/2015)

Amec Foster Wheeler	Project No. 6-917-18096-0	Page 1 of 2
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PROJECT: Central Kitsap School District
Transportation Department UST Investigation

Log of Boring No. TD-9 (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
16	TD-9-15		39	0.2	Continued: SILTY SAND with GRAVEL	Discrete sample TD-9-15 was collected at 15' for TPH-D
17			50		Boring completed at 16' BGS and backfilled with bentonite chips. An asphalt patch was applied at ground surface.	
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						

OAKBOREV (REV. 3/2015)

APPENDIX B

Laboratory Reports

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

April 27, 2017

Chelsea Jefferson, Project Manager
AMEC Foster Wheeler
One Union Square
600 University Street, Suite 600
Seattle, WA 98101

Dear Ms Jefferson:

Included are the additional results from the testing of material submitted on April 7, 2017 from the Central Kitsap School District Transportation Department USTs, F&BI 704128 project. There are 7 pages included in this report.

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
c: Todd Wentworth
AMC0427R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 7, 2017 by Friedman & Bruya, Inc. from the AMEC Foster Wheeler Central Kitsap School District Transportation Department USTs, F&BI 704128 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>AMEC Foster Wheeler</u>
704128 -01	TD-1-20
704128 -02	TD-2-20
704128 -03	TD-3-15
704128 -04	TD-3-20
704128 -05	TD-4-15
704128 -06	TD-4-20
704128 -07	TD-5-20
704128 -08	TD-6-10
704128 -09	TD-6-20
704128 -10	TD-7-20
704128 -11	TD-8-15
704128 -12	TD-9-15
704128 -13	Trip Blanks

An 8260C internal standard did not pass the acceptance criteria for sample TD-2-20. The affected surrogate was flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/27/17

Date Received: 04/07/17

Project: Central Kitsap School District Transportation Department USTs, F&BI 704128

Date Extracted: 04/19/17

Date Analyzed: 04/19/17

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<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)
TD-3-15 704128-03	<0.02	<0.02	<0.02	<0.06	<2	98
TD-4-15 704128-05	<0.02	<0.02	<0.02	<0.06	<2	97
TD-6-10 704128-08	<0.02	<0.02	<0.02	<0.06	9.1	99
Method Blank 07-786 MB2	<0.02	<0.02	<0.02	<0.06	<2	96

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	TD-2-20	Client:	AMEC Foster Wheeler
Date Received:	04/07/17	Project:	Central Kitsap School District
Date Extracted:	04/20/17	Lab ID:	704128-02
Date Analyzed:	04/20/17	Data File:	042027.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	114	50	150
Toluene-d8	131	50	150
4-Bromofluorobenzene	105 J	50	150

Compounds:	Concentration mg/kg (ppm)
Methyl t-butyl ether (MTBE)	<0.005
1,2-Dibromoethane (EDB)	<0.005
1,2-Dichloroethane (EDC)	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	Method Blank	Client:	AMEC Foster Wheeler
Date Received:	Not Applicable	Project:	Central Kitsap School District
Date Extracted:	04/20/17	Lab ID:	07-809 mb
Date Analyzed:	04/20/17	Data File:	042026.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Methyl t-butyl ether (MTBE)	<0.005
1,2-Dibromoethane (EDB)	<0.005
1,2-Dichloroethane (EDC)	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/27/17

Date Received: 04/07/17

Project: Central Kitsap School District Transportation Department USTs, F&BI 704128

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

Laboratory Code: 704069-04 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery	Acceptance
			LCS	Criteria
Benzene	mg/kg (ppm)	0.5	104	66-121
Toluene	mg/kg (ppm)	0.5	106	72-128
Ethylbenzene	mg/kg (ppm)	0.5	101	69-132
Xylenes	mg/kg (ppm)	1.5	108	69-131
Gasoline	mg/kg (ppm)	20	85	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/27/17

Date Received: 04/07/17

Project: Central Kitsap School District Transportation Department USTs, F&BI 704128

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C DIRECT SPARGE

Laboratory Code: 704238-17 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet wt)	Duplicate Result (Wet wt)	RPD (Limit 20)
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	<0.005	<0.005	nm
1,2-Dichloroethane (EDC)	mg/kg (ppm)	<0.005	<0.005	nm
1,2-Dibromoethane (EDB)	mg/kg (ppm)	<0.005	<0.005	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	0.05	97	94	49-148	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	0.05	92	92	69-137	0
1,2-Dibromoethane (EDB)	mg/kg (ppm)	0.05	94	94	70-130	0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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 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. 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. Compounds in the sample matrix interfered with the quantitation of the analyte.
- 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.

704128

SAMPLE CHAIN OF CUSTODY

ME 04-07-17

V53/B04

Report To Chelsea Jefferson, Todd WentworthCompany Amecc Foster WheelerAddress 600 University Street #800City, State, ZIP Seattle, WA 98101Phone 206 342 1715 Email chelsea.jefferson@amecc-fw.comSAMPLERS (signature) [Signature]

PROJECT NAME

Central Kitsap School District
Transportation Dept. USTs

PO #

REMARKS

INVOICE TO

Page # 1 of 2

TURNAROUND TIME

☒ Standard Turnaround☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Archive Samples☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM	MTBE, EDB, EDC			
TD-1-20	01 A-F	4/6/17	1020	Soil	6			✓	✓							⊗ - per CT
TD-2-20	02		1138					✓	✓				⊗			4/19/17 M4.
TD-3-15	03		1330					⊗	⊗							HOLD
TD-3-20	04		1340				✓									
TD-4-15	05		1445					⊗	⊗							HOLD
TD-4-20	06		1450				✓									
TD-5-20	07	↓	1600				✓									
TD-6-10	08	4/7/17	0830					⊗	⊗							HOLD
TD-6-20	09	4/7/17	0840					✓	✓							
TD-7-20	10	↓	0938					✓	✓							

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>Chelsea Jefferson</u>	<u>Amecc Foster Wheeler</u>	<u>4/7/17</u>	
Received by: <u>[Signature]</u>	<u>DD VO</u>	<u>F&B</u>	<u>4-7-17</u>	<u>15:40</u>
Relinquished by:				
Received by:				
		Samples received at <u>2</u> °C		

NE 04-07-17 VS3/Boq/
Page # 2 of 2/VW/
TURNAROUND TIME

Report To Chases Johnson, Todd Wentworth

Company Amel Foster Wheeler

Address 600 University Street #600

City, State, ZIP Seattle WA 98107

Phone 206 342 1115 Email Chelsea.Husno

SAMPLERS (signature)

PROJECT NAME

Central Kitsap School Dist
Transportation Dept. VSTS

PO #

REMARKS

INVOICE TO

Page # 2 of 2 WV

TURNAROUND TIME

~~Standard Turnaround~~

6 RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Archive Samples☐ Other[illegible]



Samples received at 2 °C

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Chelsea Jefferson	Amec Foster Wheeler	4/7/17	
Received by: 	Dd	FOBI	4-7-17	15:40
Relinquished by:				
Received by:				

704128

SAMPLE CHAIN OF CUSTODY

ME 04-07-17

V53/B04/

Report To Chelsea Jefferson, Todd WentworthCompany AMEC Foster WheelerAddress 600 University Street #800City, State, ZIP Seattle, WA 98101Phone 206 342 1775 Email chelsea.jefferson@amec-fw.comSAMPLERS (signature) C. Jefferson

PROJECT NAME

Central Kitsap School District

PO #

REMARKS

Transportation Dept. USTs

INVOICE TO

Page # 1 of 2

TURNAROUND TIME

☒ Standard Turnaround☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Archive Samples☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM				
TD-1-20	01 A-F	4/6/17	1020	Soil	6			✓	✓							
TD-2-20	02		1138					✓	✓							
TD-3-15	03		1330													HOLD
TD-3-20	04		1340				✓									
TD-4-15	05		1445													HOLD
TD-4-20	06		1450				✓									
TD-5-20	07	↓	1600				✓									
TD-6-10	08	4/7/17	0830													HOLD
TD-6-20	09	4/7/17	0840					✓	✓							
TD-7-20	10	↓	0938					✓	✓							

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>C. Jefferson</u>	<u>Chelsea Jefferson</u>	<u>AMEC Foster Wheeler</u>	<u>4/7/17</u>	
Received by: <u>T. Wentworth</u>	<u>TJ WO</u>	<u>F&B</u>	<u>4-7-17</u>	<u>15:40</u>
Relinquished by:				
Received by:		Samples received at <u>2</u> °C		

V53/B04/
2 of 2 View

Phone 206 342 1775 Email chelsea.jefferson@

Page # 2 of 2 / Vw

TURNAROUND TIME

☒ Standard Turnaround

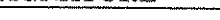

☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Archive Samples☐ Other

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Seattle, WA 98119-2029
Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Chelsea Tellersa	Amer Foster Wheeler	4/7/17	
Received by: 	Dd Va	FOBR	4-7-17	15:40
Relinquished by:				
Received by:				