

August 16, 2006



PORTLAND
SEATTLE
VANCOUVER
EUGENE
BEND
TRI-CITIES

Mr. Dallas Beamer Lieb Foods, Inc 2550-D 23rd Avenue P.O. Box 389 Forest Grove, OR 97116

Re:

LIMITED UNDERGROUND STORAGE TANK (UST) ASSESSMENT, PCBs INSPECTION AND WELL WATER REVIEW AT WELCHS FOODS, 10 EAST BRUNEAU, KENNEWICK, WASHINGTON PBS PROJECT NUMBER #61396.00

Dear Mr. Beamer:

In August 2006, at your request PBS Engineering and Environmental (PBS) completed a Limited UST Assessment, PCBs Inspection and well water review at the Welchs property. This report provides a summary of the assessment results.

BACKGROUND

Food processing has occurred at the plant location since approximately 1925. During a portion of that time a 50,000-gallon bunker fuel UST system has been providing fuel to power the boiler system. At this time the UST system only provides backup power, with the main heating supplied by natural gas. An earlier UST assessment was completed by others in January 2006, with results not providing information on groundwater. Bank of the West engaged PBS during June of 2006 to complete a Phase I Environmental Assessment on the property, with results of that assessment recommending further work to assess groundwater and soil near the UST system and fuel lines.

Recent information indicates that 2-12,000 gallon USTs containing bunker fuel were removed from the site between 1974 and 1978. The location of those units were 120 feet east of the southwest corner of the subject property, with the pump unit on the south side of the two north oriented USTs. Excavation based remedial action has begun to remove bunker fuel contaminated soil related to those USTs.

FIELD METHODS

The fieldwork for this assessment was conducted from July 31 to August 11, 2006; with a utility locate completed on the property prior to beginning work. After arrival on the property, Welchs personnel, PBS and the drilling contractor reviewed the location of the UST and underground fuel lines as well as other utilities in the area prior to beginning drilling.

After the site was checked for utility locations, air rotary Tubex system drilling was provided by Environmental West Exploration, Spokane, Washington to sample soil adjacent to the UST, lines

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and maintenance area of Building #4. Seven borings, with sampling, were completed. Drill holes were completed at the locations shown on Figure 1. After the borings were completed and the samples were collected, the holes were backfilled with bentonite. Soil samples were collected into 4-ounce glass jars, with water samples collected with disposable bailers into 40 ml vials and ½ liter amber bottles. All samples were shipped in iced coolers to a certified environmental laboratory, within the required holding time of the chosen analytical method.

PBS logged the borings in general accordance with the Unified Soil Classification System; see attached boring logs. In general, materials encountered in the borings included a surface layer of asphalt or grass. Various mixtures of sandy gravel and sand were present in most of the borings to approximately 25 feet below ground surface at the base of the borings. See the attached boring logs for further information. Groundwater was encountered in the borings at between 20 and 23 feet below ground surface.

LABORATORY RESULTS

All samples were submitted to Friedman and Bruya Laboratory in Seattle, Washington for analysis by total petroleum hydrocarbons – hydrocarbon identification method; (NWTPH-HCID) a qualitative procedure to identify the fraction and type of hydrocarbon in the sample. Other analysis was completed for total petroleum hydrocarbons – diesel extended method (NWTPH-Dx) and volatile organic constituents (VOCs). Table 1 provides a summary of analytical results for the UST assessment; fuel contamination was encountered in borings #4 and #7 as indicated below. The laboratory report is attached following this report.

TABLE 1 ANALYTICAL RESULTS

Sample/Depth	NWTPH-HCID	8260 Constituents	Gasoline	Diesel	Oil
B1 (water)	ND	All ND	NA	ND	ND
B2 (water)	ND	All ND	NA	ND	ND
B3 (water)	ND	All ND	NA	ND	ND
B4 (water)	NA	All ND	NA	16,000	20,000
B5 (water)	ND	All ND	NA	ND	ND
B6 (water)	ND	All ND	NA	ND	ND
B7 (water)	NA	All ND	NA	1,300	1,700
B1 16-17.5'	ND	NA	NA	ND	ND
B1 21-22.5'	ND	NA	NA	ND	ND
B1 24-25.5'	ND	NA	NA	ND	ND
B2 19-20.5'	ND	NA	NA	ND	ND
B2 20.5-22'	ND	NA	NA	ND	ND
B3 15-16'	ND	NA	NA	ND	ND
B3 20.5-22'	ND	NA	NA	ND	ND
B4 20.5-22'	Detect Diesel	NA	NA	< 50	<250
B5 20.5-22'	ND	NA	NA	ND	ND
B6 13-15'	ND	NA	NA	ND	ND
B7 14-15'	ND	NA	NA	ND	ND
Cleanup Levels Soil	NA	NA -Variable	100/30*	2,000	2,000
Cleanup Levels Water	NA	NA -Variable	1.0/0.8*	0.5	0.5

NOTES:

Unless indicated, all sample matrix materials are soil.

WDOE - MTCA Method A Cleanup levels for each constituent are indicated in the last line.

Bolded numbers indicate analysis exceeding cleanup levels

All analytical results are in milligrams/kilogram (mg/kg)

ND - Material not detected.

NA - indicates not applicable or not analyzed.

* = The Method A cleanup level for gasoline is 100/1.0 mg/kg or 30/0.8 mg/kg if benzene is present. Groundwater is second number.

See Figure I for boring/sample locations.

CONCLUSIONS

Analytical results indicate that petroleum hydrocarbon impact above Washington State Department of Ecology (WDOE) Model Toxic Control Act (MTCA) Method A cleanup levels were found in groundwater sampled at the Welchs site from Borings #4 and #7. Field indications of bunker fuel contamination were observed in both borings. The fuel was encountered only in groundwater, with no soil contamination above the water table elevation encountered. Boring #4 was located approximately one foot north of the existing bunker fuel lines and at the north end of the former 12,000-gallon USTs on the property. Boring #7 was approximately 25 feet south of the existing bunker fuel lines and 18 feet southeast of the south side of the former UST pump house. The larger amount of contamination was observed in Boring #4, which was judged to be downgradient of the confirmed leaks that occurred in the lines and pump house of the earlier 12,000 gallon USTs. No leakage was suspected from the current 50,000 gallon UST and piping system.

No contamination was detected in Boring #5, which was approximately 80 feet downgradient from the suspected leak locations. No contamination was detected in Borings #1, #2 and #3 which were adjacent and downgradient from the existing onsite 50,000 gallon UST. Boring #6 was completed further east on the site, immediately north of the Building #4 machine shop to check for leakage from that area. No contamination was detected in Boring #6, suggesting that no contaminants had escaped from that area.

PCBs ISSUES

In support of the project, PBS completed a review of onsite privately owned transformers and capacitors to check for PCBs. Mr. Gary Splattstoesser, of Benton County PUD, aided in the review. PBS walked through the facility and observed approximately 7 floor mounted oil-less transformers. In addition, approximately 10 - 50 KVA capacitors were observed in the various production areas on the site. Several of the capacitors in the southwest portion of Building #4 were indicated to contain Areovox - Supernol transformer oil. The Supernol oil was indicated to be non-PCBs containing. No other PCBs containing fixtures were observed on the site; no PCBs issues with transformers or capacitors are suspected. Individual fluorescent ballasts were examined for PCBs in the maintenance shop area of Building #4 (the oldest building onsite); labels on the ballasts observed indicated "No PCBs". Checking all light ballasts was beyond the scope of the project, but results at this time suggest that "No PCBs" ballasts will be present throughout.

WATER SUPPLY WELL ISSUES

One production supply well is located immediately west of the Boiler Building. Well construction data indicates the well is 548 feet deep, with unperforated casing to 365 feet below ground surface in basalt bedrock. Six pounds of artesian pressure is present at the well head. Laboratory analytical data was provided to PBS by Welchs, with analysis for inorganic chemicals, synthetic organic chemicals, metals, pesticides, herbicides, petroleum chemicals, volatile organic chemicals, trihalomethanes, semi-volatiles, PCBs and dioxins. Detected constituents included fluoride (0.9 mg/l), sulfate (50 mg/l), sodium (100 mg/l), hardness (11 mg/l), total dissolved solids (319 mg/l), conductivity (503 umhos/cm) and turbidity (0.5 NTUs); all results are within regulatory MCLs. The detected dioxins constituent (2,3,7,8 – TCDD) indicated a concentration of 203.597 picograms/liter in the production well; this can also be written as 203.597 x 10⁻¹⁵ grams/l. EPA Region 9 Preliminary Remediation Goals (PRGs) indicates that the dioxins remediation goal is 4.5 x 10⁻⁷ grams/l, suggesting that dioxins levels within the well are safe. All of the other indicated sample results are non-detect for all constituents. No problems concerning well water contamination are suspected from the supplied analytical analysis.

RECOMMENDATIONS

In support of due diligence, PBS recommends that the onsite bunker fuel contaminated soil be removed to the degree possible to not jeprodize adjacent building, slab or utility foundations. Removing the contaminated soil will reduce potential future groundwater contamination by ending the gravity transfer of bunker fuel from soil into the groundwater beneath. The contaminated soil should be disposed at an offsite landfill. Clean fill soil can be brought in to replace the contaminated soil. Work to remove the contaminated soil is currently underway through a separate environmental project with Welchs Foods.

In accordance with WDOE – MTCA regulations in Chapter 173-340 WAC, PBS recommends that the release be reported to the WDOE (this action has already been completed). In conjunction with the contact with WDOE, PBS recommends that Welchs consider joining the WDOE Voluntary Cleanup Program (VCP). Joining the VCP will involve submitting this report (and a planned future excavation remedial action report) and receiving a decision from WDOE concerning whether cleanup action, risk assessment, installing monitoring wells/monitoring or further assessment is necessary at the Welchs site.

Further inspection of fluorescent light ballasts for PCBs and other potential hazardous building materials (lead and asbestos) should be completed prior to future onsite renovations.

LIMITATIONS

This work was performed in accordance with generally accepted practices of other consultants undertaking similar studies during the same time period and geographical area. PBS Environmental observed the same degree of care and skill generally exercised by other consultants under similar circumstances and conditions. The findings and conclusions of this

report are not scientific certainties, but rather, are based on professional judgement concerning the significance of data gathered during the course of this assessment. The recommendations of this report, or lack thereof, are not considered a legal opinion as to the clients duty concerning due diligence relating to potential liabilities in leasing, owning, or purchasing real estate.

PBS in not able to represent that the site or adjoining land contains no hazardous waste, oil or other latent conditions beyond that detected or observed by PBS during this study. The possibility always exists for contaminants to migrate through surface water, air, or groundwater. The ability to accurately address the environmental risk associated with transport in these media is beyond the scope of this investigation.

PBS very much appreciates the opportunity to provide this report. If you have any questions, need further services of need other supporting information please contact us at (509) 735-2698.

Sincerely,

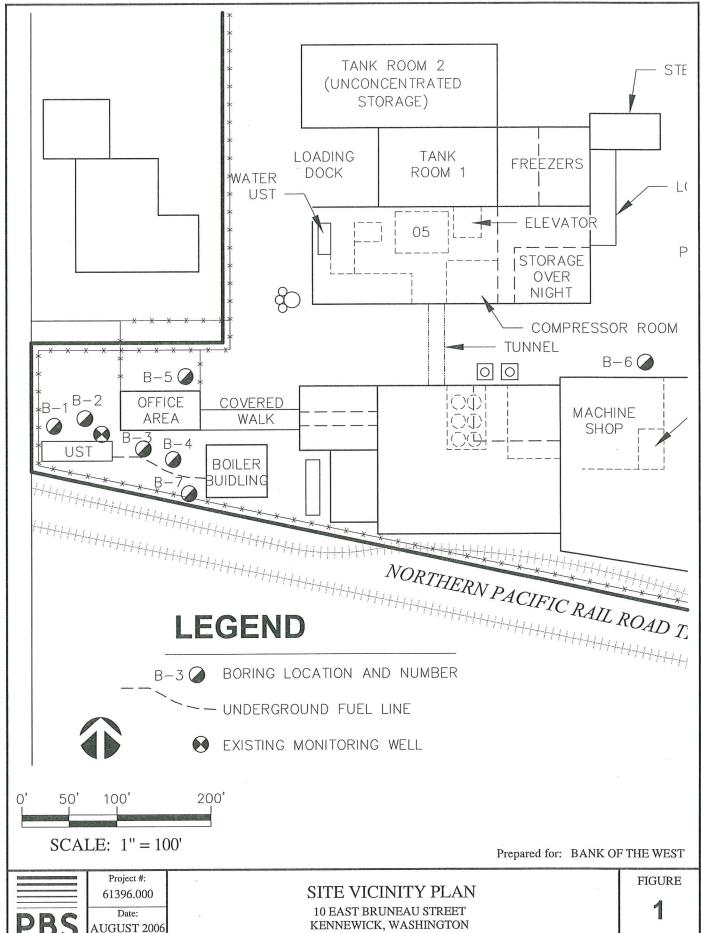
Paul Danielson, LHG

Project Manager Paul E. Danielson

Attachments:

Figure 1 Boring Logs Analytical Results

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B/15/06 08:09 T:\Projects\61000\61300 -61399\61396\61396.000_phase2.dwg

PBS	(509) 735–26 FAX (509) 735–18	67	0112	Project 61396	. Nu 6.00	mber:	Boring/Well Number: Sheet SB-1 1 of 1
Project Na Project Loc Driller/Equi Geologist/E Sample Me	cation: ipment: Engineer:	ENV PAU	NEWICK IRONME IL DANI	K, WASHI ENTAL WI IELSON RY/SPLIT	EST		TOC Elevation (feet above datum): Surface Elevation (feet above datum): Start/End Date: 7/31/06 Hole Depth: 26.5' Outer Hole Diameter: 6"
(feet, BGS)	Well Instruction Details	Sample Interval		e Data Sample Number	Blows/ft.	Lithologic Column	Soil Description
_ 2							0.0-7': Firm, brown, sandy SILT; moist, slightly plastic.
_ 8							7-14: Very dense, gray, sandy GRAVEL; moist, non-plastic, subrounded.
_ 12 _ 14 _ 16 _ 18		X		SB1 16-17.5	29 23 30	0.0	14-21': Dense, brown fine to medium grained SAND; moist, non-plastic.
_ 22 _ 24 _ 26	•	X		SB1 21-22.5 SB1 24-25.5	42	000000000000000000000000000000000000000	21-26.5': Very dense, gray, fine to coarse grained GRAVEL ; moist subrounded. Collected water sample.
_ 28						0 0	BOTTOM OF HOLE
_ 32							
_ 36 _ 38							
LOCATION:	37' N. and NOTES 1. SOIL INTERFACE						IER OF SITE SOIL DESCRIPTIONS NOT INTENDED TO BE USED FOR GEOTECHNICAL DESIGN

		320 N. JOHNSON SUITE 700 KENNEWICK, WA. S	ST.		Bore Hole/Well Construction Log						
P	BS	(509) 735–26 FAX (509) 735–186	98	a	Project 61396			Boring/Well Number: Sheet SB-2 1 of 1			
P D G	Project Name: WELCHS Project Location: KENNEWICK, WASHINGTON Driller/Equipment: ENVIRONMENTAL WEST Geologist/Engineer: PAUL DANIELSON Sample Method: AIR ROTARY/SPLIT—SPOON				ENTAL W IIELSON	EST		TOC Elevation (feet above datum): Surface Elevation (feet above datum): Start/End Date: 7/31/06 Hole Depth: 24' Outer Hole Diameter: 6"			
BGS)		Well		Samp.	le Data		0				
Depth (feet, B		weii nstruction Details	Sample Interval	PID Reading (ppm)	Sample Number	Blows/ft.	Lithologic Column	Soil Description			
_ 2 _ 2 _ 4							0	0.0-5.0': Firm brown, sandy SILT w/ minor gravel; moist, slightly plastic.			
6 8 10								5-14': Dense, gray-brown, sandy GRAVEL ; moist, non-plastic, subrounded. 8			
10 12 14								12 14			
16 18						4 21	à	14-21': Dense, gray-brown, fine to medium grained SAND w/ gravel; moist, non-plastic, subrounded. 16			
20 22		_	X		SB2 19-20.5 SB2 20.5-22	76 26 90 83	000	20_21-24': Dense, gray-brown, sandy fine to coarse grained GRAVEL; 22_satruated, subrounded.			
24							0 0	Collected water sample. 24			
26								BOTTOM OF HOLE			
- 28								28 _			
30								30 _			
								32 _			
32 – 32											
34								34_			
19/66219-								36_			
38								38_			
40 Ls/61000		54' E. and	l d 34	' N. FF	ROM SOU	L ITHW	L EST COR	NER OF SITE			
\Project		NOTES									
R/14/06 16:33 7:\Projects\61000\61300 -61399\61396\61396\61396\BEV.		SOIL INTERFACE ACTUAL CHAN WATER LEVEL	GES AN	D TRANSITIO	ONS MAY BE G	RADUAL		SOIL DESCRIPTIONS NOT INTENDED TO BE USED FOR GEOTECHNICAL DESIGN PURPOSES.			
/14/06 REV.		OF YEAR.									

	320 N. JOHNSOI SUITE 700 KENNEWICK, WA.	N ST.		Во	ore	e Hol	le/Well Construction Log	
PB:	KENNEWICK, WA. (509) 735–26 (509) 735–18	98		Project 61396			Boring/Well Number: Sheet SB-3 1 of 1	
Driller/E Geologis	Name: Location: Equipment: st/Engineer: Method:	KEN EN V PAU	NEWICH IRONME IL DAN	ME HOUS K, WASHI ENTAL W IELSON RY/SPLIT	NGT EST		TY TOC Elevation (feet above datum): Surface Elevation (feet above datum): Start/End Date: 7/31/06 Hole Depth: 24' Outer Hole Diameter: 6"	ā
BGS)			Samp	le Data				
Depth (feet, BC	Well Construction Details	Sample Interval	PID Reading (ppm)	Sample Number	Blows/ft.	Lithologic Column	Soil Description	
2						Ö	0.0-4': Firm, brown, silty fine grained SAND w/ minor gravel; mois non-plastic.	st, 2
4 6						0000	4-14': Dense, gray, sandy GRAVEL; moist, non-plastic, subrounded.	- 6
- 8						0.000		8
10 - 12						0.5 (0.5) 0.0 0.0		1
14 14				SB3	34 36	0 0	14-19': Dense, brown, fine to medium grained SAND w/ minor grave moist, non-plastic.	
16 18				15–16	92		moist, non passie.	1
20 20	_	X		SB3	15 46	0000	19-24': Very dense, gray, fine to coarse grained GRAVEL; moist, non-plastic, subrounded.	_ 2
22 24				20.5-22	50	000	Collected water sample.	2
_ 26 _					u.		BOTTOM OF HOLE	2
28 - 30								2
32								3
34								3
36 - 38								3
40								4
	DN: 22' N. an	d 87	' E. FF	ROM SOL	ITHW	VEST COR	NER OF SITE	
	NOTES							7
	1. SOIL INTERFA	CES AND	DESCRIPTION OF TRANSITION	ONS ARE INTER	RPRETIV		SOIL DESCRIPTIONS NOT INTENDED TO BE USED FOR GEOTECHNICAL DESIGN	3
	2. WATER LEVEL OF YEAR.						PURPOSES.	
REV								

		320 N. JOHNS SUITE 70 KENNEWICK, WA	SON ST.		Вс	Bore Hole/Well Construction Log					
P	BS	(509) 735- FAX (509) 735-	2698		Project 61396		mber:		Boring/Well Numb SB-4	er:	Sheet 1 of 1
Pi Di G	roject Nai roject Loc riller/Equi eologist/E ample Me	cation: pment: Ingineer:	ENV. PAU	NEWICH IRONME L DAN	K, WASHI ENTAL W IELSON RY/SPLIT	EST			TOC Elevation (feet ab Surface Elevation (feet Start/End Date: Hole Depth: Outer Hole Diameter:	ove datum above do 7/31/06 24' 6"	atum):
(S				Samp	le Data						
Depth (feet, BGS)		Well nstruction Details	Sample Interval	PID Reading (ppm)	Sample Number	Blows/ft.	Lithologic Column		Soil Descrip	otion	
2					SB4 19-20.5 SB4 20.5-22	52 50 49		6-15': subrou	Dense, brown, fine to medium lastic. Very dense, brown-gray, sandy anded. TOM OF HOLE	VEL; moist	2 4 4 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
L	OCATION:	14' N. c	and 11:	5' E. F	ROM SO	UTHV	WEST COL	RNER	OF SITE		
2017		NOTES									CD A
REV		ACTUAL C	HANGES AN	D TRANSITI	IONS ARE INTER ONS MAY BE G WN AND MAY V	RADUAL		. SOIL DES USED FOI PURPOSE	CRIPTIONS NOT INTENDED TO BE R GEOTECHNICAL DESIGN S.		SB-4

		320 N. JOHNSON SUITE 700 KENNEWICK, WA. 9 (509) 735-26	9336						Vell Construction Log	
P	BS	(509) 735–26 FAX (509) 735–18	- 1		Project 6139				Boring/Well Number: Shee SB-5 1 of	
Pro Dri Ge	oject Na oject Loo iller/Equi ologist/E mple Me	cation: ipment: Engineer:	KEN ENV PAL	IRONME IL DAN ROTAR	RY/SPLIT	EST			TOC Elevation (feet above datum): Surface Elevation (feet above datum): Start/End Date: 8/1/06 Hole Depth: 24' Outer Hole Diameter: 6"	
BGS)		Well			e Data	ئب ا	·δ	ı		
(feet, l	Co	nstruction Details	Sample Interval	PID Reading (ppm)	Sample Number	Blows/ft.	Lithologic Column		Soil Description	
							0000		2': Asphalt.	
_ 2							0.00	0.2-7	Dense, gray, sandy GRAVEL; slightly moist, non-plastic	
- 4							0.00			
_ 6							0 0			
8							8-		Dense, gray-brown, fine to coarse grained SAND w/gravel	ļ;
_ 10							0	moist,	non-plastic.	
12							0			
							0.			
- 14							0000	14-18'	Dense, gray, sandy fine to medium GRAVEL; moist,	
_ 16							0 00	non-p	astic.	
_ 18							000	18-24	Very dense, gray, medium to coarse grained GRAVEL;	_
_ 20		_	X		SB5 19-20.5	72 +100	100		non-plastic.	
_ 22			X		SB5 20.5-22	33	000		ted water sample.	
24					20.0 22	42	0			
								вот	TOM OF HOLE	
_ 26					2					
30										
32										
34										
36										
_ 38										
40 LO	CATION:	80' N. an	l d 15	3' E. F	ROM SC	L DUTH	WEST CO	L RNER	OF SITE	
		NOTES								
1		1. SOIL INTERFAC	CES AND	DESCRIPTION TRANSITION	ONS ARE INTER	RPRETIV		SOIL DES	RIPTIONS NOT INTENDED TO BE GEOTECHNICAL DESIGN	a 4

PB	320 N. JOHNS SUITE 77 KENNEWICK, W. (509) 735– S (509) 735– (509) 735–	2698		Project 61396				Boring/Well Number: Sheet SB-6 1 of 1	
Projec Driller, Geolog	t Name: t Location: /Equipment: pist/Engineer: e Method:	KEN ENV PAL	IRONME JL DANI ROTAR	Y/SPLIT	EST			TOC Elevation (feet above datum): Surface Elevation (feet above datum): Start/End Date: 8/1/06 Hole Depth: 20.5' Outer Hole Diameter: 6"	
Depth (feet, BGS)	Well Construction Details	Sample Interval		e Data Sample Number	Blows/ft.	Lithologic Column		Soil Description	
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36				SB6 11-15 SB6 19-20.5	14 26 90		0.2-6's fine g	Dense, brown, fine to medium grained SAND w/ some avel; moist, non-plastic. Dense, gray-brown, sandy fine to medium grained GRAVEL non-plastic. Medium dense, brown, silty SAND w/ fine gravel; non-plastic. S': Very dense, gray, sandy GRAVEL; moist, stic. ted water sample.	
- 38 - 40									_
40	ACTUAL CI	FACES AN	D DESCRIPTION TRANSITION	FROM S	RPRETIV	Æ AND 3.	. SOIL DES	EXIPTIONS NOT INTENDED TO BE GEOTECHNICAL DESIGN	The state of the s

SOIL INTERFACES AND DESCRIPTIONS ARE INTERPRETIVE AND ACTUAL CHANGES AND TRANSITIONS MAY BE GRADUAL.

^{2.} WATER LEVEL IS FOR DATE SHOWN AND MAY VARY WITH TIME OF YEAR.

PBS	320 N. JOHNSON SUITE 700 KENNEWICK, WA. 9 (509) 735–269 FAX (509) 735–186	18		Project 6139			Boring/Well Number: Sheet SB-7 1 of	
Project Na Project Lo Driller/Equi Geologist/E Sample Me	cation: ipment: Engineer:	ENVI PAU	NEWICK RONME L DANI ROTAR	K, WASHI ENTAL W IELSON RY/SPLIT	EST		TOC Elevation (feet above datum): Surface Elevation (feet above datum): Start/End Date: 8/1/06 Hole Depth: 24' Outer Hole Diameter: 6"	_
(feet, BGS)	Well onstruction Details	Sample Interval	PID Reading S (ppm)	e Data Sample Number	Blows/ft.	Lithologic Column	Soil Description	
_ 2						0000	0.0-0.2': Asphalt. 0.2-4': Dense, gray, sandy GRAVEL ; slightly moist, non-plastic.	
. 6						Ω	4-17': Dense, gray, medium to coarse grained SAND w/ gravel; moist, non-plastic.	
. 12				SB7		0		
.18		\times		14-15		0000	17-24': Very dense, gray, medium to coarse grained GRAVEL w/ sand; saturated, nonplastic.	
20	•	X		SB7 20.5-22	12 26 33	0000	Collected water sample. Small amount of oil on top of water.	
24						<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	BOTTOM OF HOLE	_
28								
32								
. 34								
36								
. 38						ė		
LOCATION:	30' S. and NOTES			***************************************			SOIL DESCRIPTIONS NOT INTENDED TO BE USED FOR GEOTECHNICAL DESIGN	

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 14, 2006

Paul Danielson, Project Manager PBS Engineering and Environmental, Inc. 320 N. Johnson St., Suite 700 Kennewick, WA 99336

Dear Mr. Danielson:

Included are the results from the testing of material submitted on August 3, 2006 from the 61396.00, F&BI 608026 project. There are 18 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.

Project Manager

Enclosures

ENVIRONMENTAL CHEMISTS

Date of Report: 08/14/06 Date Received: 08/03/06

Project: 61396.00, F&BI 608026

Date Extracted: 08/04/06 Date Analyzed: 08/04/06

RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

		PRESENT		Surrogate
Sample ID Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	(% Recovery) (Limit 50-150)
B-1 16-17.5	ND	ND	ЙD	98
B-1 21-22.5	ND	ND ,	ND	97
B-1 24-25.5 608026-03	ND	ND	ND	89
B-2 19-20.5 608026-04	ND	ND	ND	89
B-2 20.5-22 608026-05	ND	ND	ND	98
B-3 15-16	ND	ND	ND	90
B-3 20.5-22	ND	ND	ND	89
B-5 20.5-22	ND	ND	ND	90
B-6 13-15	ИŊ	ND	ND	90

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/14/06 Date Received: 08/03/06

Project: 61396.00, F&BI 608026

Date Extracted: 08/04/06 Date Analyzed: 08/04/06

RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

		X X		Surrogate
Sample ID Laboratory ID	Gasoline	$\underline{\mathrm{Diesel}}$	<u>Heavy Oil</u>	(% Recovery) (Limit 50-150)
B-7 14-15 608026-11	ИD	ND	ND	98
Method Blank	ND	ND	ND	91

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/14/06 Date Received: 08/03/06

Project: 61396.00, F&BI 608026

Date Extracted: 08/04/06 Date Analyzed: 08/05/06

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

Sample ID Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 50-150)
B-1 608026-12	ND	ND	ND	73
B-2 608026-13	ND	ND	NĎ	73
B-3 608026-14	ND	ND	ND	78
B-5 608026-16	ND	ND	ND	72
B-6 608026-17	ND	ND	ND	58
Method Blank	ND	ND	ND	74

ND - Material not detected at or above 0.2 mg/L gas, 0.5 mg/L diesel and 0.5 mg/L heavy

ENVIRONMENTAL CHEMISTS

Date of Report: 08/14/06 Date Received: 08/03/06

Project: 61396.00, F&BI 608026

Date Extracted: 08/03/06 Date Analyzed: 08/04/06

RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL USING METHOD NWTPH-Dx

Extended to Include Motor Oil Range Compounds

Results Reported on a Dry Weight Basis Results Reported as µg/g (ppm)

Sample ID Laboratory ID	$rac{ ext{Diesel Range}}{ ext{(C}_{10} ext{-C}_{25})}$	<u>TRPH</u> (C ₁₀ -C ₈₆)	Surrogate (% Recovery) (Limit 67-127)
B-4 20.5-22 608026-08	<50	<250	84
Method Blank	<50	<250	102

ENVIRONMENTAL CHEMISTS

Date of Report: 08/14/06 Date Received: 08/03/06

Project: 61396.00, F&BI 608026

Date Extracted: 08/04/06 Date Analyzed: 08/05/06

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

Extended to Include Motor Oil Range Compounds

Results Reported as µg/L (ppb)

Sample ID Laboratory ID	Diesel Range (C ₁₀ -C ₂₅)	<u>TRPH</u> (C ₁₀ -C ₃₆)	Surrogate (% Recovery) (Limit 51-132)
B-4 608026-15	16,000	20,000	ip
B-7 608026-18	1,300	1,700	89
Method Blank	<50	<250	74

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

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	B-1.	Client:	PBS Engineering
	08/03/06	Project:	61396.00, F&BI 608026
	08/07/06	Lab ID:	608026-12
	08/07/06	Data File:	080705.D
	water	Instrument:	GCMS5
	ug/L (ppb)	Operator:	YA
	mêr = /hTr.o.)	200 L	

	Lower	Obber
% Recovery:	Limit:	Limit:
91	75	125
97	67	133
99	79	129
123	76	145
	99	% Recovery: Limit: 91. 75 97 67 99 79

4-Bromofluorobenzene	123	76 140	
Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Compounds.	MEVIT (PPD)		
Dichlorodifluoromethane	<1	Tetrachloroethene	<1
Chloromethane	<1	Dibromochloromethane	. <1
Vinyl chloride	< 0.2	1,2-Dibromoethane (EDB)	<1
Bromomethane	<1	Chlorobenzene	<1
Chloroethane	<1	Ethylbenzene	<1
Trichlorofluoromethane	<1	1,1,1,2-Tetrachloroethane	<1
Acetone	<10	m,p-Xylene	<2
1,1-Dichloroethene	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzenc	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1.
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon Tetrachloride	<1.	tert-Butylbenzenc	<1
Benzene	<1	1,2,4-Trimethylbenzene	<1
Trichloroethene	<].	sec-Butylbenzene	<1.
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1.	1,3-Dichlorobenzene	<1
Dibromomethane	<].	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1.	1,2-Dibromo-3-chloropropane	<1
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1.
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<1.0	1,2,3-Trichlorobenzene	<1
1,3-Dichloropropane	<1.		
,			

Note: The reporting limit for vinyl chloride is equal to the MDL.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

ZIHMY GIB I OX 100		_		-50 F	
Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	B-2 08/03/06 08/07/06 08/07/06 water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	PBS Engineering 61396.00, F&BI 608026 608026-13 080706.D GCMS5 YA	8
			Lower	Upper	
Comments		% Recovery:	Limit:	Limit:	
Surrogates: Dibromofluorometh	2274	93	75	125	
1,2-Dichloroethane		98	67	133	
Toluene-d8	-ux	100	79	1.29	
4-Bromofluorobenz	one	124	76	1.45	
4-DIOIIIOIIIIOIO	,CAI.O				Concentration
		Concentration	a		ug/L (ppb)
Compounds:		ug/L (ppb)	Compot	mus,	
	-ll. ama	<1	Tetrach	loroethene	<1
Dichlorodifluoromo	ernane	<1	Dibrom	ochloromethane	<1.
Chloromethane		<0.2	1,2-Dib	romoethane (EDB)	<1.
Vinyl chloride		<1		penzene	<1.
Bromomethane		<1	Ethylbe	enzene	<1
Chloroethane	4h - m 4	<1	1,1,1,2	Tetrachloroethane	<1
Trichlorofluorome	Mane	<10	m,p-Xy		<2
Acetone		<1.	o-Xylen		<1
1,1-Dichloroethene		<5	Styrene		<1
Methylene chlorid		<1		ylbenzene	<1
trans-1,2-Dichloro		<1	Bromof		<1
1,1-Dichloroethan		<1	n-Prop	ylbenzene	<1
2,2-Dichloropropa cis-1,2-Dichloroetl		<1		benzene	<1.
Chloroform	uene	<1	1,3,5-T	rimethylbenzene	<1
	7	<10	1,1,2,2	-Tetrachloroethane	<1
2-Butanone (MEK 1,2-Dichloroethan		<1	1.2.3-T	richloropropane	<1.
1,1,1-Trichloroeth		<1	2-Chlo	rotoluene	<1
1,1-Pichloroprope		<1		rotoluene	<1
Carbon Tetrachlo	ride	<1		utylbenzone	<1
Benzene	1140	<1		rimethylbenzene	<1
Trichloroethene		<1		tylbenzene	<1
1,2-Dichloropropa	ne	<1		ropyltoluene	<1
Bromodichlorome		<1.	1,3-Die	chlorobenzene	<1
Dibromomethane		<1	1.,4-Di	chlorobenzene	<1
4-Methyl-2-penta		<1.0	1,2-Di	chlorobenzene	<1
cis-1,3-Dichlorop		<1	1,2-Di	bromo-3-chloropropane	<1
Toluene	tohene	<1.	1,2,4-	l'richlorobenzene	<1
trans-1,3-Dichlor	onronene	<1		:hlorobutadiene	<1
1,1,2-Trichloroet	hane	<1	Napht	thalene	<1
2-Hexanone	,audio	<10	1,2,3-	Trichlorobenzene	<1
1,3-Dichloroprop	ane	<1			
T'9. Wiciliorobrob	ano	***			

Note: The reporting limit for vinyl chloride is equal to the MDL.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Allalysis . Of vo.	(COLIC COMI	•			
Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	B-3 08/03/06 08/07/06 08/07/06 water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	PBS Engineering 61396.00, F&BI 608026 608026-14 080707.D GCMS5 YA	3
			Lower	Upper	
Companyatory		% Recovery:	Limit:	Limit:	
Surrogates: Dibromofluorometh	anno	88	75	125	
1,2-Dichloroethane		95	67	133	
Toluene-d8	-(1-2	97	79	129	
4-Bromofluorobenz	OTIE	120	76	1.45	
4-Diomondoropenz	ieno				Concentration
ų.		Concentration	a		ug/L (ppb)
Compounds:		ug/L (ppb)	Compou	inds:	(Pho)
	41	<1	Tetrach	loroethene	<1
Dichlorodifluorome	Eurane	<î	Dibrom	ochloromethane	<1
Chloromethane		<0.2	1,2-Dib	romoethane (EDB)	<1
Vinyl chloride		<1.	Chlorob		<1.
Bromomethane		<1	Ethylbe	enzene	<1
Chloroethane	ble e se e	<1	1.1.1.2-	Tetrachloroethane	<1
Trichlorofluorome	inane	<10	ın,p-Xy		<2
Acetone		<]	o-Xylen		<1.
1,1-Dichloroethene		<5	Styrene		<1.
Methylene chlorid		<1		ylbenzene	<1
trans-1,2-Dichloro		<1	Bromof		<).
1,1-Dichloroethan		<1		ylbenzene	<1.
2,2-Dichloropropa		<1		henzene	<1
cis-1,2-Dichloroeth	iene	<1		rimethylbenzene	<1
Chloroform	`	<10	1.1.2.2	Tetrachloroethane	<1
2-Butanone (MEK	·)	<1	1.2.3-T	richloropropane	<1
1,2-Dichloroethan	(י) רוקו)	<1	2-Chlo	rotoluene	<1
1,1,1-Trichloroeth		<1	4-Chlo	rotoluene	<1
1,1-Dichloroprope		<1		atylbenzene	<1
Carbon Tetrachlo	ride	<1		rimethylbenzene	<1
Benzene		<1		tylbenzene	<1
Trichloroethene		<1		ropyltoluene	<1
1,2-Dichloropropa		<1		chlorobenzene	<1
Bromodichlorome		<1	1 4-Die	chlorobenzene	<1
Dibromomethane		<10	1.2-Die	chlorobenzene	<1
4-Methyl-2-penta	none	<1.	1.2-Di	bromo-3-chloropropane	<1
cis-1,3-Dichloropa	copene	<1.	1 2 4-7	Crichlorobenzene	<1
Toluene			Heyac	hlorobutadiene	<],
trans-1,3-Dichlor		<]. ~1		halene	<1
1,1,2-Trichloroetl	nane	<1	192.	Frichlorobenzeue	<1
2-Hexanone		<10	1,2,0) 4 posteda (*
t O IV Llamannan	A = 4 A	<1			

Note: The reporting limit for vinyl chloride is equal to the MDL.

1,3-Dichloropropane

<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Lower Upper Limit: Limit: Dibromofluoromethane 91 75 125	Date Received: 0 Date Extracted: 0 Date Analyzed: 0 Matrix: v	-4 8/03/06 8/07/06 8/07/06 vater g/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	PBS Engineering 61396.00, F&BL 6 608026-15 080713.D GCMS5 YA	
Concentration Ug/L (ppb) Compounds: Ug/L (ppb)	Surrogates: Dibromofluorometha: 1,2-Dichloroethane-d Toluene-d8	ne 4	91. 96 98	Limit: 75 67 79	Jámi 125 133 129	t:
Dichlorodifluoromethane <1 Tetrachlorocateur Chloromethane <1	Compounds:			Compor	ınds:	ug/L (ppb)
2-Butanone (MEK) <10 1,1,2,2-Tetrachloroethane <1 1,2-Dichloroethane (EDC) <1 1,2,3-Trichloropropane <1 2-Chlorotoluene <1	Chloromethane Vinyl chloride Bromomethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane 2,2-Dichloropropane cis-1,2-Dichloroethene Chloroform 2-Butanone (MEK)	ane hene ne	<1 <0.2 <1 <1 <10 <10 <5 <1 <1 <1 <1 <1	Dibrom 1,2-Dib: Chlorol Ethylbe 1,1,1,2- m,p-Xy o-Xylen Styrene Isoprop Bromol n-Prop; Bromol 1,3,5-T 1,1,2,2 1,2,3-T	ochloromethane romoethane (EDB) renzene retrachloroethane lene le retrachloroethane lene le retrachloroethane le retrachloroethane retrachloroethane richloropropane	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <

 ≤ 1 p-Isopropyltoluene <1 1,2-Dichloropropane ≤ 1 1,3-Dichlorobenzene <1 Bromodichloromethane <] 1,4-Dichlorobenzene ≤ 1 Dibromomethane <1 1,2-Dichlorobenzene <10 4-Methyl-2-pentanone <1 1,2-Dibromo-3-chloropropane <1 cis-1,3-Dichloropropene 1,2,4-Trichlorobenzene <1 <1 ≤ 1 Hexachlorobutadiene <1 trans-1,3-Dichloropropene 1.8 Naphthalene <1 1,1,2-Trichloroethane <11,2,3-Trichlorobenzene <10 2-Hexanone <1 1,3-Dichloropropane

4-Chlorotoluene

tert-Butylbenzene

sec-Butylbenzene

1,2,4-Trimethylbenzene

 ≤ 1

 ≤ 1

<1

<1

Note: The reporting limit for vinyl chloride is equal to the MDL.

<1

<1

ζ),

<1

<1

1,1,1-Trichloroethane

Carbon Tetrachloride

1,1-Dichloropropene

Trichloroethene

Benzene

 ≤ 1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: Date Received:	B-5 08/03/06		Client: Project:	PBS Engineering 61396.00, F&BI 608026 608026-16	3
Date Extracted:	08/07/06		Lab ID:	080708.D	
Date Analyzed:	08/07/06		Data File: Instrument:	GCMS5	
Matrix:	water		Operator:	YA	
Units:	ug/L (ppb)		Operator.		
			Lower	Upper	
C		% Recovery:	Limit:	Limit:	
Surrogates: Dibromofluorometh	Nana	95	75	125	
Dipromotinoromen	A1	103	67	133	
1,2-Dichloroethane	-u4.	105	79	129	
Toluene-d8 4-Bromofluorobenz	one	129	76	145	
4-Bromondonenz	eno				Concentration
		Concentration	Compor	inds.	ug/L (ppb)
Compounds:		ug/L (ppb)			24
Dichlorodifluorome	athana	<1.	Tetrach	loroethene	<1
	30119016	<1	Dibrom	ochloromethane	<1.
Chloromethane		<0.2	1,2-Dib	romoethane (EDB)	<1
Vinyl chloride		<1	Chlorol	benzene	<1.
Bromomethane		<1.	Ethylbe	enzene	<1 <1
Chloroethane Trichlorofluorome	thone	<1.	1,1,1,2-	Tetrachloroethane	<2
	ullanc	<10	m,p-Xy		<1
Acetone 1,1-Dichloroethen	8	<1.	o-Xylet		<1
Methylene chlorid	e de	<5	Styren	e	<1
trans-1,2-Dichloro	athone	<1	Isopro	pylbenzene	<1
1,1-Dichloroethan	o	<1	Bromo	form	<1
2,2-Dichloropropa		<1	n-Prop	ylbenzene	<1.
cis-1,2-Dichloroet	hene	<1	Bromo	benzene	<1
Chloroform	110110	<1	1,3,5-7	Frimethylbonzene	<1
2-Butanone (MEF	n	<10	1,1,2,2	-Tetrachloroethane	<1
1,2-Dichloroethar	e ŒDC)	<1	1,2,3-7	Frichloropropane	<1
1,1,1-Trichloroeth	ie (EB c)	<).	2-Chlo	rotoluene	<1
1,1-Dichloroprope	ne	<1.	4-Chlo	rotoluene	<1
Carbon Tetrachlo	ride	<1	tert-B	utylbenzene	<1
Benzene		<1	1,2,4-	Trimethylbenzene	<1
Trichloroethene		<1.	sec-Bu	utylbenzene	<1
1,2-Dichloroprop	ane	<1	p-lsol	propyltoluene	<1
Bromodichlorome	ethanc	<1.	1,3-Di	ichlorobenzene	<î
Dibromomethane		<1	1,4-0	ichlorobenzene	<1
4-Methyl-2-pents		<1.0	1,2-0	ichlorobenzene	<1
cis-1,3-Dichlorop	ropene	<1.	1,2-10	ibromo-3-chloropropane	<1
Toluene	P	<1	1,2,4-	Trichlorobenzene	<1
trans-1,3-Dichlor	ropropene	<1		chlorobutadienc	<1
1 1 9 Prichloroet		<1	Naph	thalene	~1 ~x

Note: The reporting limit for vinyl chloride is equal to the MDL.

1,1,2-Trichloroethane

1,3-Dichloropropane

2-Hexanone

<1.0

 ≤ 1

1,2,3-Trichlorobenzene

<1

<1

 ≤ 1

 ≤ 1

<1

<1

<1

 ≤ 1

 ≤ 1

 ≤ 1

 ≤ 1

 ≤ 1

<1

<)

PBS Engineering

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Client:

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: B-6

1,1,1-Trichloroethane

1,1-Dichloropropene

Carbon Tetrachloride

1,2-Dichloropropane

Bromodichloromethane

4-Methyl-2-pentanone

1,1,2-Trichloroethanc

1,3-Dichloropropane

cis-1,3-Dichloropropene

trans-1,3-Dichloropropene

Trichloroethene

Dibromomethane

Benzene

Toluene

2-Hexanone

Date Received: Date Extracted: Date Analyzed: Matrix: Units:	08/03/06 08/07/06 08/07/06 water ug/L (ppb)		Project: Lab ID: Data File: Instrument: Operator:	61396.00, F&BI 608 608026-17 080710.D GCMS5 YA	3026
			Lower	Upper	
Surrogates:		% Recovery;	Limit:	Limit:	
Dibromofluorometh	iane	98	75	125	
1,2-Dichloroethane		1.03	67	133	
Toluene-d8		107	79	1.29	
4-Bromofluorobenz	ene	134	76	145	
		Concentration			Concentration
Compounds:		ug/L (ppb)	Compou	nds:	ug/L (ppb)
Dichlorodifluorome	thane	<1	Tetrach	loroethene	<1
Chloromethane	5-64 * - 104,400,000 ± 6.5 gr (348	<1	Dibromo	ochloromethane	<1
Vinyl chloride		< 0.2	1,2 - Dibr	omoethane (EDB)	<1
Bromomethane		<1	Chlorob		<1
Chloroethane		<1	Ethylbe		<1
Trichlorofluoromet	hane	<1		l'etrachloroethane	<1
Acetone		<1.0	m,p-Xyl		<2
1,1-Dichloroethene		<1	o-Xylene	9	<1
Methylene chloride		<5	Styrene		<1
trans-1,2-Dichloroe	thene	<1		ylbenzene	<1
1,1-Dichloroethane		<1	Bromofo		<1
2,2-Dichloropropan	.e	<1		lbenzene	<1.
cis-1,2-Dichloroeth	ene	<1	Bromob		<1
Chloroform		<1		imethylbenzene	<].
2-Butanone (MEK)		<10		l'etrachloroethane	<1
1,2-Dichloroethane	(EDC)	<1		ichloropropane	<1
and the second of the second o			0 (1) 1		- 1

2-Chlorotoluene

4-Chlorotoluene

tert-Butylbenzene

sec-Butylbenzene

p-Isopropyltoluene

1,3-Dichlorobenzene

1,4-Dichlorobenzene

1.2-Dichlorobenzene

1,2,4-Trichlorobenzene

1,2,3-Trichlorobenzene

Hexachlorobutadiene

Naphthalene

1,2-Dibromo-3-chloropropane

1,2,4-Trimethylbenzene

Note: The reporting limit for vinyl chloride is equal to the MDL.

 ≤ 1

 ≤ 1

 ≤ 1

<1

<1

<1

 ≤ 1

 ≤ 1

< 10

<1

 ≤ 1

<1

<]

<10

<1.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	B-7 08/03/06 08/07/06 08/07/06 water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	PBS Engineering 61396.00, F&BI 6080 608026-18 080712.D GCMS5 YA	026
Surrogates: Dibromofluorometh 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz	ane -d4	% Recovery: 99 103 107 132	Lower Limit: 75 67 79 76	Upper Limit: 125 133 129 145	
Compounds:		Concentration ug/L (ppb)	Compou	inds:	Concentration ug/L (ppb)
Dichlorodifluorome Chloromethane Vinyl chloride Bromomethane Chloroethane Trichlorofluoromet Acetone 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroethane 2,2-Dichloropropar cis-1,2-Dichloroeth Chloroform 2-Butanone (MEK) 1,2-Dichloroethane	hane othene ce ene de (EDC)	<1 <1 <0.2 <1 <1 <10 <10 <1 <5 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Dibromo 1,2-Dibr Chlorob Ethylbe 1,1,1,2-1 m,p-Xyl o-Xylen Styrene Isoprop Bromob n-Propy Bromob 1,3,5-Tr 1,1,2,2-1	nzene Fetrachloroethane ene e ylbenzene orm dbenzene	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <
1,1,1-Trichloroetha		<1. <1.		otoluene otoluene	<1

Note: The reporting limit for vinyl chloride is equal to the MDL.

<1

<1

<1

<1

<1

<1

<10

 ≤ 1

<1

<1

<].

<10

<]

1,1-Dicbloropropene

Carbon Tetrachloride

1,2-Dichloropropane

Dibromomethane

Bromodichloromethane

4-Methyl-2-pentanone

1,1,2-Trichloroethane

1,3-Dichloropropane

cis-1,3-Dichloropropene

trans-1,3-Dichloropropene

Trichloroethene

Benzene

Toluene

2-Hexanone

tert-Butylbenzene

sec-Butylbenzene

p-Isopropyltoluene

1,3-Dichlorobenzene

1,4-Dichlorobenzene

1,2-Dichlorobenzene

1,2,4-Trichlorobenzene

1,2,3-Trichlorobenzene

Hexachlorobutadiene

Naphthalene

1,2-Dibromo-3-chloropropane

1,2,4-Trimethylbenzene

<1

<1

 ≤ 1

 ≤ 1

<1.

 ≤ 1

<.].

<1

<1

 ≤ 1

<1

 ≤ 1

 ≤ 1

<1

 ≤ 1

 ≤ 1

<1

 ≤ 1

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 ≤ 1

<1

<1.

 ≤ 1

 ≤ 1

 ≤ 1

<1.

 ≤ 1

1,2,3-Trichloropropane

1,2,4-Trimethylbenzene

2-Chlorotoluene

4-Chlorotoluene

tert-Butylbenzene

sec-Butylbenzene

p-Isopropyltoluene

1,3-Dichlorobenzene

1,4-Dichlorobenzene

1,2-Dichlorobenzene

1,2,4-Trichlorobenzene

1,2,3-Trichlorobenzene

Hexachlorobutadiene

Naphthalene

1.2-Dibromo-3-chloropropane

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 08/07/06 08/07/06 water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	PBS Engineering 61396.00, F&BI 6080 061093 mb 080704.D GCMS5 YA	
			Lower	Upper	
Surrogates:		% Recovery:	Limit:	Limit:	
Dibromofluorometh	ane	90	75	125	
1,2-Dichloroethane	d4	97	67	133	
Toluene-d8		99	79	129	
4-Bromofluorobenze	ene	122	76	145	
		Concentration	Compou	nda:	Concentration ug/L (ppb)
Compounds:		ug/L (ppb)	Compou	mas.	agu (bba)
Dichlorodifluorome	thane	<1		loroethene	<1
Chloromethane		<).		ochloromethane	<1
Vinyl chloride		< 0.2		omoethane (EDB)	<1.
Bromomethane		<1	Chlorobe	enzene	<1
Chloroethane		<1	Ethylber		<1
Trichlorofluoromet	nane	<1	1,1,1,2-7	Tetrachloroethane	<1
Acetone		<10	m,p-Xyle		<2
1,1-Dichloroethene		<1	o-Xylene		<1
Methylene chloride		<5	Styrene		<1
trans-1,2-Dichloroe	thene	<1		ylbenzene	<1.
1,1-Dichloroethane		<1	Bromofo		<1.
2,2-Dichloropropan	e	<1		lbenzene	<1
cis-1,2-Dichloroeth	ene	<1	Bromob		<1
Chloroform		<1		imethylbenzene	<1
2-Butanone (MEK)		<1.0		Petrachloroethane	<1

<1 1,3-Dichloropropane Note: The reporting limit for vinyl chloride is equal to the MDL.

<1

 ≤ 1

<1

<1

 ≤ 1

<1

<1

<1

<1

< 10

<1

 ≤ 1

<1

<]

<10

1,2-Dichlorocthane (EDC)

1,1,1-Trichloroethane

Carbon Tetrachloride

1,2-Dichloropropane

Dibromomethane

Bromodichloromethane

4-Methyl-2-pentanone

1,1,2-Trichloroethane

cis-1,3-Dichloropropene

trans-1,3-Dichloropropene

Trichloroethene

Benzene

Toluene

2-Hexanone

1,1-Dichloropropene

ENVIRONMENTAL CHEMISTS

Date of Report: 08/14/06 Date Received: 08/03/06

Project: 61396.00, F&BI 608026

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

Laboratory Code: 6	608037-02 (Mat	rix Spike)	Percent	Percent		
	Reporting	Spike Level	Sample Result	Recovery MS	Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Analyte Diesel Extended	Units	5,000	<50	113	1.13	71-137	0

Laboratory Code: Laboratory Control Sample

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5.00,000		Percent	
Analyte	Reporting Units	Spike Level	Recovery LCS	Acceptance Criteria
Diegel Extended	na/a (bbm)	5,000	120	70-129

ENVIRONMENTAL CHEMISTS

Date of Report: 08/14/06 Date Received: 08/03/06

Project: 61396.00, F&BI 608026

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

Laboratory Code: L	aboratory Cont	rol Sample	Percent	Percent		
A m a leet a	Reporting Units	Spike Level	Recovery LCS	Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Analyte Diesel Extended	μg/L (ppb)	2,500	116	107	74-139	8

ENVIRONMENTAL CHEMISTS

Date of Report: 08/14/06 Date Received: 08/03/06

Project: 61396.00, F&BI 608026

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260B

Laboratory Code: 608016-06 (Duplicate) Relative Percent Difference Duplicate Sample Reporting (Limit 20) Result Result Units Analyte nm <1 μg/L (ppb) ≤ 1 1,1-Dichloroethene nm. ≤ 1 ≤ 1 μg/L (ppb) 1,2-Dichloroethane (EDC) nm <1 <1 μg/L (ppb) 1,1-Dichloropropene nm ≤ 1 <]. μg/L (ppb) Benzene nm ≤ 1 ≤ 1 μg/L (ppb) Trichloroethene nm <1 ≤ 1 μg/L (ppb) 1,2-Dichloropropane nm <1<1 μg/L (ppb) cis-1,3-Dichloropropene 6 5.2 5.5 μg/L (ppb) Toluene nm ≤ 1 <1 μg/L (ppb) trans-1,3-Dichloropropene nm ≤ 1 <∫ ug/L (ppb) 1,1,2-Trichloroethane nm ≤ 1 <1. μg/L (ppb) 1,3-Dichloropropane nm <1 $\leq I$ μg/L (ppb) 1.2-Dibromoethane (EDB) nm <1. ≤ 1 μg/L (ppb) Chlorobenzene nm <1 <1 μg/L (ppb) Ethylbenzene nm<1 ≤ 1 μg/L (ppb) 1,1,1,2-Tetrachloroethane 5 3.9 μg/L (ppb) 4.1 m,p-Xylene nm ≤ 1 ≤ 1 μg/L (ppb) Styrene מתמ ≤ 1 <1μg/L (ppb) Bromobenzene nm <1 <] μg/L (ppb) 1,3,5-Trimethylbenzene ≤ 1 nm ≤ 1 μg/L (pph) 1,1,2,2-Tetrachloroethane nm <1 ≤ 1 μg/L (ppb) 1,2,3-Trichloropropane מתח <1 a 1.0 μg/L (ppb) 1,2,4-Trimethylbenzene nm ≤ 1 <1 μg/L (ppb) p-Isopropyltoluene <1 nm <]. μg/L (ppb) 1,2-Dibromo-3-chloropropane nm ≤ 1 <1 μg/J_ (ppb) 1,2,4-Trichlorobenzene nm. ≤ 1 <1 μg/L (ppb) Hexachlorobutadione nm <1 <1 μg/L (ppb) Naphthalene nm ≤ 1 ≤ 1 μg/L (ppb) 1,2,3-Trichlorobenzene

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

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.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/14/06 Date Received: 08/03/06

Project: 61396.00, F&BI 608026

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260B

Laboratory Code: 608026-12 (Matrix Spike)

				Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
1,1-Dichloroethene	μg/L (ppb)	50	<1	69	49-130
1,2-Dichloroethane (EDC)	μg/L (ppb)	50	<1.	92	56-137
1.1-Dichloropropene	μg/L (ppb)	50	<1	92	76-122
Benzene	μg/L (ppb)	100	<).	86	76-112
Trichloroethene	μg/L (ppb)	100	<1	88	75-117
1,2-Dichloropropane	μg/L (ppb)	50	<1	103	75-121
cis-1,3-Dichloropropene	μg/L (ppb)	50	<1	92	67-125
Toluene	μg/L (ppb)	1.00	<1	89	69-129
trans-1,3-Dichloropropens	μg/L (ppb)	50	<1.	89	63-136
1,1,2-Trichloroethane	μg/L (ppb)	50	<1	97	62-137
1,3-Dichloropropane	μg/L (ppb)	50	<1.	97	63-134
1,2-Dibromoethane (EDB)	μg/L (ppb)	50	<1	100	61-139
Chlorobenzene	μg/L (ppb)	50	<1	81	85-112
Ethylbenzene	μg/L (ppb)	50	<1	93	50-150
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<1	97	78-123
m,p-Xylene	μg/L (ppb)	50	<2	98	50-150
Styrene	μg/L (ppb)	50	<1	91	50-150
Bromobenzene	μg/L (ppb)	50	<1.	93	50-150
1,3,5-Trimethylbenzene	μg/L (ppb)	50	<1	87	50-150
1,1,2,2-Tetrachloroethanc	μg/L (ppb)	50	<1	92	56-151
1,2,3-Trichloropropane	μg/L (ppb)	50	<1.	95	51-144
1,2,4-Trimethylbenzene	μg/L (ppb)	50	< I.	89	50-150
p-Isopropyltoluene	μg/L (ppb)	50	<1	88	50-150
1,2-Dibromo-3-chloropropane	μg/L (ppb)	50	<1	99	33-150
1,2,4-Trichlorobenzene	μg/L (ppb)	50	<1	104	50-150
Hexachlorobutadiene	μg/L (ppb)	50	<1	95	51-141
Naphthalene	μg/L (ppb)	50	<1	105	50-150
Naphthalene 1,2,3-Trichlorobenzene	μg/L (ppb)	50	<1	1.10	50-150

ENVIRONMENTAL CHEMISTS

Date of Report: 08/14/06 Date Received: 08/03/06

Project: 61396.00, F&BI 608026

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260B

Laboratory Code: Laboratory Control Sample

			Percent	
q.	Denouting	Spike	Recovery	Acceptance
1 1	Reporting Units	Level	LCS	Criteria
Analyte	μg/L (ppb)	50	64	53-135
1,1-Dichloroethene	μg/L (ppb)	50	86	67-137
1,2-Dichloroethane (EDC)	μg/L (ppb)	50	89	66-121
1,1-Dichloropropene	μg/L (ppb) μg/L (ppb)	100	83	74-123
Benzene	μg/L (ppb)	100	84	75-121
Trichloroethene	μg/L (ppb)	50	99	79-122
1,2-Dichloropropane	μg/L (ppb)	50	92	79-134
cis-1,3-Dichloropropene	μg/L (ppb)	100	87	72-128
Toluene	μg/L (ppb)	50	88	80-134
trans-1,3-Dichloropropene	μg/L (ppb)	50	94	77-125
1,1,2-Trichloroethane	μg/L (ppb)	50	94	80-124
1,3-Dichloropropane	μg/L (ppb)	50	97	77 - 131
1,2-Dibromoethane (EDB) Chlorobenzene	μg/L (ppb)	50	80	80-118
	μg/L (ppb)	50	90	70-130
Ethylbenzene 1,1,1,2-Tetrachloroethane	μg/L (ppb)	50	94	81-126
	μg/L (ppb)	50	97	70-130
m,p-Xylene	μg/L (ppb)	50	89	70-130
Styrene Bromobenzene	дд/L (ppb)	50	92	70-130
1,3,5-Trimethylbenzene	μg/L (ppb)	50	86	70-130
1,1,2,2-Tetrachloroethane	μg/L (ppb)	50	89	80-134
1,1,2,3-Trichloropropane	μg/L (ppb)	50	92	77 - 122
1,2,4-Trimethylbenzene	μg/L (ppb)	50	89	70-130
p-Isopropyltoluene	μg/L (pph)	50	87	70-130
1,2-Dibromo-3-chloropropane	μg/L (ppb)	50	94	80-130
1,2,4-Trichlorobenzene	μg/L (ppb)	50	1.01	70-130
Hexachlorobutadiene	μg/L (ppb)	50	91	65-135
	μg/L (ppb)	50	1.00	70-130
Naphthalene	μg/L (ppb)	50	105	70-130
1,2,3-Trichlorobenzene	HEIT (NIN)			

Note: The calibration verification result for dichlorodifluoromethane exceeded 15% deviation. The average deviation for all compounds was not grater than 15%, therefore the initial calibration is considered valid

V3/C05	Page # of TURNAROUND TIME	O Standard (2 Weeks)	Rush charges authorized by:	SAMPLE DISPOSAL U Dispose after 30 days	U Keturn samples U Will call with instructions		Notes											H	E-2 16AM	8/3/00 10:00		
y 08/03/06	Page#		61396,00 Rush cha	SA U Dispos	U Keturi D Will ca	ANALYSES REQUESTED	NWIFH HCID	×	×	X	×	×.		7	X	\(\frac{1}{2}\)	× ×	COMPANY	703	FeBT		
SAMPLE CHAIN OF CUSTODY EY	SAMPLERS (signature)		6 (396.00	KS Welchs		ANALYS	HES SYOCE by 8270 TPH-Diesel TPH-Casoline TPH-Casoline TPH-Casoline				4							PRINT NAME	Gal Builos	Mhan Phan		
SAMPLE (SAMPLI	PROJEC	9	REMARKS			Sample Type	5016		· ·	Ţ,	Ş					→	5	V	3		
	2,	fal. Inc	0		1867		Time	y pry									-	SIGNATURE	9	and la	Table 1	
	ئ ئۇ	vironmen	320 N.Johnson St., Suite 700	99336	(509) 735-1867		Date	7/31		<u>.</u>					7	3-1	=	SIG	shed by	E	shed by:	l by:
	A L.	y and Er	mson St	k. WA	Fax#_		Lag.	ā	62	03	04	95	8	4	000	90	0		Relinquished by	Received by	Relinquished by:	Received by:
りたりとう	Sound Bound To Bac Dawle Non	Sella ivepore 10.	address 320 N.Inl	ste, ZIP	Phone # (509) 735-2698		Sample ID	5-11-11-11	8-1 21-225	5:52-12 1-8.	5.02-612-8	22-5.92 2-8	B-3 15-16	B-3 20.5-22	B-4 26.5-22	B-S 20.5-22	D-6 13-15	Friedman & Bruya, Inc.	3012 16th Avenue West	Seattle, WA 98119-2029	Ph. (206) 285-8282	Fax (206) 283-5044

8:01 シグロ TIME V5/CL U Standard (2 Weeks) ERUSH 24/46 have Rush charges authorized by: ☐ Dispose after 30 days ☐ Return samples ☐ Will call with instructions Page # of TURNAROUND TIME SAMPLE DISPOSAL Notes 83/06 DATE 4-12 08/03/06 COMPANY ANALYSES REQUESTED $\vec{\alpha}$ Extradual PO# Hall X 厂 HES SAOCs by 8270 SAMPLE CHAIN OF CUSTODY VOCe by 8260 がある PRINT NAME BLEX PA 8031B (vel chs TPH-Gasoline Shan 6139600 SAMPLERS (signocture) TPH.Diesel PROJECT NAME/NO. Sample Type | containers # of 0 REMARKS えをより --پ 56:1 س س 1 <u>ب</u> SIGNATION Time 44 5 7 Company PBS Engineering and Environmental, Inc. -Fax # (509) 735-1867 320 N Johnson St., Suite 700 608026 Report To Rev | Dewit her Date 7-31 Relinquished by: 100 _ I OO <u>ب</u> _ City, State, ZIP Kennewick, WA 99336 Relinquistration Received by: Received by: 41 7. A. 中年 がった 了一 Lab Seattle, WA 98119-2029 Friedman & Bruya, Inc. 3012 16th Averwe West Phone # (509) 735-2698 Fax (206) 283-5044 Ph. (206) 285-8282 Sample ID 9 5 7/2 5.3 J S ĭ Š 1 Address