n an		004868	LOCALE 285-2400 CABLE ADOPESS TIMOL
SEATTLE TACOMA PORTIAND STOCKTON REND RICHMONO LOS ANGELES	TIME OI	L CO. * 0+	(FAX) 200-283-8036
1	Ts 2737 WEST COMMODOF PRODUCTA THE TESTED	SPECEPARIMEN	NTOPECOLOGY CP TANK UNIT 2299 July 8, 199
Mr. Thom	Lufkin	INTERIM CLEANL SITE CHARACTER FINAL CLEANUP OTHER	RIZATION 🔲
Washingt Mail Sto	und Storage Tank Section on State Department of Ecology p PV-11 Washington 98504-8711	AFFECTED MEDI OTHER INSPECTOR (INIT	GW 🗖 .

RE: Underground Storage Tank Removal 24205 - 56th Avenue West, Mountlake Terrace, Seattle, WA Property No.01-284

Dear Mr. Lufkin:

This letter report has been prepared to provide you with information regarding the removal of underground storage tanks at 24025 - 56th Avenue West, Mountlake Terrace, Washington. A verbal report regarding site conditions was provided to Ms. Christine Madden of the Washington State Department of Ecology on June 14, 1991.

On June 14 and June 17, 1991, three gasoline tanks were removed from the abovereferenced site. An 8,000 gallon tank and a 6,000 gallon tank were removed from one excavation while another 6,000 gallon tank was removed from a separate excavation. Although some areas of surface corrosion were present, it did not appear that any of the tanks had leaked. The location of the tanks is provided on Attachment 1 - Site Plan.

Backfill within the excavations consisted of fine to medium sand and appeared to be contaminated, particularly beneath the tanks. Native soil at the site consisted of dense silty sand. Discolored soil was visible on the sidewalls of both excavations, however, heavy staining indicated that majority of the contamination had migrated downward. No groundwater was encountered to a depth of 15 feet.

Soil samples collected from the sidewalls of the excavations and beneath each end of the former tanks were analyzed for total petroleum hydrocarbons (TPH) as gasoline by EFA Method 8015 and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EFA Method 8020. TFH concentrations ranging from 230 ppm to 2,000 ppm and benzene concentrations ranging from 0.72 ppm to 49 ppm were present in samples collected from the bottoms of the excavations. Analyses indicated that contamination was also present at elevated levels on the west sidewalls of both excavations: 130 ppm TFH was found in the sample collected from the large excavation and 1,300 ppm TFH was found in the sample collected from the small excavation. Contaminant levels were not present above the current cleanup guideline in samples collected from the north and east sidewalls of both excavations and the south sidewall of the large excavation. Samples of the fill

indicated TPH at concentrations ranging from 26 ppm to 550 ppm TPH and benzene at 0.028 ppm to 0.76 ppm. Attachment 2 summarizes the analytical results and laboratory reports are provided as Attachment 3.

Due to space limitations, the contaminated fill could not be stockpiled on the site and was used to backfill the excavation. Approximately 100 feet of perforated piping was placed into the excavations at a depths of 7 to 8 feet for the purpose of future in-situ remediation by vapor extraction.

A site assessment will be performed to determine the vertical and lateral extent of contamination in the area of the former tanks. Once the extent of contamination is defined, a work plan will be developed for site remediation.

As required, completed Site Check/Site Assessment Checklists have been included for each tank (Attachment 4). If you have any further questions, please do not hesitate to phone me at (206) 286-4495. If I am not available, Fred Proby may be able to answer any questions that you may have.

Sincerely Anastasia E. Duarte

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Anastasia E. Duarte Environmental Specialist :

Attachments

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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3008-B 16th Avenue West Seattle, WA 98119 FAX: (206) 283-5044

June 21, 1991

Anne Duarte, Project Leader Time Oil Company 2737 West Commodore Way Seattle, WA 98199

Dear Ms Duarte:

Enclosed are the results of the analyses of the samples submitted on June 17, 1991 from Project 01-167, 24025-56th Ave. W., PO# 19627.

We appreciate this opportunity to be of service to you on this project. If you have any questions regarding this material, or if you just want to discuss any aspect of your projects, please do not hesitate to contact me.

Sincerely,

Elanie zamona

Elaine K. Zamora, Chemist

EKZ/sao

Enclosures

FRIEDMAN & BRUYA, IN(

ENVIRONMENTAL CHEMISTS

Date of Report: June 21, 1991 Date Submitted: June 17, 1991 Project: 01-167, 24025-56th Ave. W., PO# 19627

RESULTS OF ANALYSES OF THE SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND GASOLINE USING EPA METHODS 5030 COUPLED TO 8020 and 8015 Results Reported as mg/kg (ppm)

Sample #	Benzene	Toluene	Et-Benzene	Xylenes	Gasoline
1167-0617-T10	0.72	0.28	3.6	250 ^a	1,900 ^ª
1167-0617- T 11	0.72	0.73	82 *	270 *	2,000 ^a
1167-0617-T12	0.6	1.6	41 ^a	41 ^a	1,100ª
1167-0617-T13	0.54	2.8	31 a	250 [#]	1,300ª
1167-0617-T14	<0.002	0.22	0.012	0.024	17
1167-0617-T15	<0.002	0,39	<0.93 ^b	1.5	26

Quality Assurance

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Method Blank	<0.002	<0.002	<0.002	<0.004	<2
1167-0617-T15 (Duplicate)	<0.002	0.34	<0.94 b	1.6	25
1167-0617-T15 (Matrix Spike) Percent Recovery	150%	120%	57%	98%	95%
1167-0617-T15 (Matrix Spike Dup Percent Recovery	licate) 140%	120%	478	110%	110%
Sample Spiked at 1	,000	1,000	1,000	1,000	100

- a Value reported exceeded the calibration range established for the sample.
- b Interferences were present which prevented the identification and quantitation of the analyte at the established detection limit.

FRIEDMAN & BRUYA, IN(

ENVIRONMENTAL CHEMISTS

Date of Report: June 21, 1991 Date Submitted: June 17, 1991 Project: 01-167, 24025-56th Ave. W., PO# 19627

RESULTS OF ANALYSES OF THE SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND GASOLINE USING EPA METHODS 5030 COUPLED TO 8020 and 8015 Results Reported as mg/kg (ppm)

Sample #	Benzene	Toluene	Et-Benzene	<u>Xylenes</u>	Gasoline
1167-0614-T1	49 a	190 ª	11	120 a	1,700 ^a
1167-0614-T2	6	25 a	18	33 a	570 a
1167-0614-T3	<0.002	<0.002	<0.002	1.1	21
1167-0614-т4	1	11 ·	18	34 ª	320 ª
1167-0614-T5	3.4	8.8	2.1	10	230 ^a
1167-0614-T6	<0.002	<0.002	<0.002	0.11	5
1167-0614-T7	<0.002	0.019	0.012	0.53	4
1167-0614-T8	0.22	1.5	2.8	5.6	130
1167-0614-T9	23 8	3.6	17	69 a	66 ^ª
1167-06 14-F1	0.76	1.9	6.2	62 ª	550 ª
1167-0614-F2	0.35	0.62	<2 b	5.5	180
1167-0614-F3	0.45	3.2	<1.8 ^b	4.8	680ª
1167-0617-F4	0.42	0.54	<0.78 ^b	1.8	120
1167-0617-F5	0.028	<0.002	0.013	0.4	26

- a Value reported exceeded the calibration range established for the sample.
- b Interferences were present which prevented the identification and quantitation of the analyte at the established detection limit.

TIM, OIL CO	D. SAN	MPLE JG 6	- EKZ-B
ле Name: <u>14025-52+ Av. W.</u>	Prop. No:	OI-167 Address:	2.402:5-56th Av. 6
Sampler: Ann Duporte	- Date:		MHIK TEM, INA
Purpose: UST removal		Grab 🔽 S.Spoon 📃	
Lab Name: Friedman and Bruya	_Preserved:		
Lab Address:	P	hone: <u>285-8282</u>	PO No.: 19627
	l Type" t		ns FB/# EPA Method
13 (167-06/#-T1 Fill and 6000 (-		PHG. BTEX 20301	8020
111-7-0614-72 Erad \$000 Cr.	SW PI	20302	
11407-0614 - T3 N. Sidewall - Larg	, (S)W P1	2.0303	
11.7-3614 -74 Fillend 8000 Cr.	SW PI	20304	
11147-014 -75 E and 800G	SW P	20305	
11-1-0614 -TO E sidewall - Parce	SW P	20306	
1/27-3610 -T7 5 sidewell - lines	SW P	20207	
111-7-0614 -18 101 5ider 2008 - land	SW PI	20308	
-11167-0614 -T9 12005-14'	SW PI	20309	l · · · · · · · · · · · · · · · · · · ·
11117-06/4-FI Fiel - lane che.	(S)W PI	203/0	i i
1111-7-06/4 -F2	SW PI	203//	1
a11957-0614 - F3	(S)W P!	2.03/2.	
11 (167-17) - F4 Vall - Small exc.	SW P	1 70313	ΙΨ
11:17-nU17-F5	SW P	203/4	
111 17 - 10 E : 12 - Small CK.		2.03/5	
Fundance Fund	STW PI	203/6	
WINDOWST - F12 5 Kidward	SW P	20317	
"In- Nol7 -A13 With White all	SW PI	20518	
WANGIT-THE E Siderall	SW PI	203/9	
N X27-FIS N Silival	SW PI	1 2032.0	· · · · · · · · · · · · · · · · · · ·
	SW PI		
- V	SW PI		
Other Instructions:		•	
Sample Count = Check sample lar count	against Logi		'S = Soil W = Water P = Product
CHAIN OF		FODY RECOR	RD
Relinguished By: Receive	a 9.a	1	Date & Time
	(FREDAM & BRU	1A (
		MA MANFOR	
		INSTRUCTIO	6/110
Please provide the requested in 1. Sample numbers assigned by Lab:	formation	1 to 20320	Date Analyzed: 6/17,6/18
2. Person performing analysis: E. M. Mall	1		C Andrew Buchman
1	-17-91		OIL CO. BEFORE DISPOSAL
4. Provide copies of ALL chrometograms, in	_		
IMPORTANTI PLEASE RETURN A C			
Attn: Environmental Manager: PO Bo	x 24447 Te	rminal Sta., Seattle, W	A 98124 (206) 285-2400

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Attachment 2 ANALYTICAL RESULTS (ppm)

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Large Excavation:

201.90 000000	Depth						
<u>Sample No.</u>	<u>(ft.)</u>	<u>TPH</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Xylenes</u>	
Tl	11	1700	49	190	11	120	
T2	11	570	6	25	18	33	
т3	6	21	ND	ND	ND	1,1	
T 4	11	320	1	11	18	34	
T 5	11	230	3,4	8.8	2.1	10	
T6	5	5	ND	ND	ND	0.11	
T 7	5	4	ND	0.019	ND	ND	
ʻT8	5	130	0.22	1.5	2.8	5.6	
T 9	14	66	23	3.6	17	69	

Small Excavation:							
	Depth		_			W 1	
Sample No.	<u>(ft.)</u>	<u>TPH</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Xylenøs</u>	
T10	15	1900	0.72	0.28	3.6	250	
T11	15	2000	0.72	0.73	82	270	
T12	6	1100	0.6	1,6	41	41	
T13	6	1300	0.54	2.8	31	250	
T14	6	17	ND	0.22	0.012	0,024	
T15	6	26	ND	0,39	ND	1.5	

Fill; <u>Sample No.</u>	<u>tph</u>	Benzene	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Xylenes</u>
F1	550	0.76	1,9	6.2	62
F2	180	0,35	0.62	ND	5.5
F3	680	0.45	3.2	ND	4.8
F4	120	0,42	0.54	ND	1.8
F5	26	ND	ND	0,013	0.4

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Time Oil Co. 2737 West Commodore Way, Seattle, WA 98199 Attachment 1 - Site Plan Time Oil Co. 24205 West 56th Ave., Mountlake Terrace, WA Property No. 01-176

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Department of Ecology Northwest Regional Office, LUST Unit Computer/File Update Information 2299 chang) site Name Time Oil Food Mart (01-167) 56 ** Site Address Z4205 Mountlake Tenace w. Update Information to Add no groundwater seen. 2,000 ppm TPH in bottom of Acavation. May put VES in May put contaminated fill material back in for treatment. Full extent of the contamination is not known From Ann Duartes Time Oil 285-2400 UST db _ also: she reported this as sta + 01-176, and I don't know which is correct. = 176 1. thich 7-8-91 _Date_ Inspector_

Department	of	Ecology-NWRO
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Underground Storage Tank Notice of Confirmed Release

	Notif	fication received by <u>C M</u>	adden	_ Date <u>06/14/91</u>	
	Repor	ter name Ann Duarte			
	-	address			
		phone no. <u>285-2400</u> ,	<u>ext. 339</u>		
		address phone no. 285-2400, name Time Dil FoodMart# address 24205- 56 th Ave. city Mountlake Terrace			
064060	Site	name Time Dil FoodMart#	BI-167 Site phor	ne no <u>, closed su</u>	.e
	q	address 24205- 56 th Ave. city Mountlake Terrace	oounty King	zin 41	1043-5505
Quet 22	`	Cicy_Mountlake_rellace	_ counc <u>x_army</u>	······································	
<i>,</i>	site	owner Time Oil	owner's	phone	
	DIGG	owner's address			
		owner's address		_ zip	
	Const	altant company <u>In-house</u>			
		name		phone no	
	Other	contact		phone no	
		contact affifiation			
		Descrip	tion of Incident	t	
		2000125		-	
		<u>Material</u> <u># Ta</u>	nks <u>Status/I</u>	<u>Date</u>	
		gasoline3	2UG, 1)	LG:4,6,8K; rem 6,	/91
		diesel			
		waste oil			
		heat fuel			
		Total number tanks: 3			
		Total number canks:	Creanup S	cacuo <u>, naasaatiiy</u>	
	Comme	ents Visual evidence, ag	<u>ed gas odor; bui</u>	lding, telephone	cable
		impact remedial efforts.			
		······			
		······			
	Date	inspected Inves	tigator	Referred to	

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