ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY

or Contract of the Contract of

DAVID J. KEARS, Agency Director

February 19, 1997 STID 4212 page 1 of 2

Attn: Tara Lynch Mobil Oil Corp. 3225 Gallows Rd., Room 6W319 Fairfax VA 22037-0001

Attn: Steve Mitchell Great Western Bank Environmental Mgmt 285 Hamilton Ave., Suite 325 Palo Alto CA 94301 ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway Alameda, CA 94502-6577 (510) 567-6700

REMEDIAL ACTION COMPLETION CERTIFICATION

RE: Former Mobil Station 04-EWB, 1975 Webster St., Oakland CA 94612 Case File Number 4212

Dear Ms. Lynch and Mr. Mitchell,

This letter confirms the completion of site investigation and remedial action for the underground storage tanks formerly located at the above referenced site. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks is greatly appreciated.

Based on information in the above-referenced file, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Division 3, Chapter 16, Section 2721(e) of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Mee Ling Tung, Director

01-6454

PROTECTION 96 NOV 15 PM 3: 51

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

Date: 10/4/96

I. AGENCY INFORMATION

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Pky

City/State/Zip: Alameda CA 94502 Phone: (510) 567-6700

Responsible staff person: Jennifer Eberle Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: Former Mobil station 04-EWB

Site facility address: 1975 Webster St., Oakland CA 94612

RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 4212

ULR filing date: not filed SWEEPS No: N/A

Responsible Parties: Addresses: Phone Numbers:

Attn: Tara Lynch, Mobil Oil Corp, 3225 Gallows Rd., Room 6W319, Fairfax VA 22037-0001 (703-849-5316)

Attn: Steve Mitchell, Great Western Bank, Environmental Mgmt, 285 Hamilton Ave., Suite 325, Palo Alto CA 94301 (property owner) (415-853-2680)

Tank Size in Contents: Closed in-place Date:

No: gal.: or removed?:

three unknown gasoline reportedly removed 1970

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: unknown Site characterization complete? YES

Monitoring Wells installed? YES Number: 4

Proper screened interval? YES

Highest GW depth below ground surface: (GWE): 1.21' in MW4 on 9/18/94

Lowest GW depth: (GWE): 4.53' in MW2 on 3/24/96

Flow direction: generally northeast

Most sensitive current use at present: parking lot

Are drinking water wells affected? NO Aquifer name: n/a

Is surface water affected? Probably not Nearest SW name: Lake Merritt is approx 3,000' east of the site

Off-site beneficial use impacts (addresses/locations): n/a

Report(s) on file? YES Where is report(s) filed?

Alameda County, 1131 Harbor Bay Pky, Alameda Ca 94502

Treatment and Disposal of Affected Material:

<u>Material</u> (i	Amount nclude units)	Action (Treatment of Disposal w/destination)	<u>Date</u>	
Tank	unknown	unknown	Reportedly 1	970
Soil	10 cubic yard	s (drill cuttings) disposed to McK	ittrick CA 5/12/	92
Purge water	116 gal 16 gal	disposed to McKittrick CA disposed to McKittrick CA	2/28/95 6/27/96	

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)	Wate	r (ppb)
	Before* After**	<u>Befor</u>	e# After##
TPH (Gas)	17,000	210	150
TPH (Diesel)	1.6	130	200
Benzene	4.5	ND	0.66
Toluene	1.9	ND	ND
Ethylbenzene	9.6	ND	0.62
Xylene	68	ND	1.7
Total lead	63	NA	NA
Oil & Grease	1,600	ND	NA
TPH-hf	NA	320	ND^{\wedge}

^{*} from MSE investigation conducted in 2/90; see Table 1

^{**} there are no "after" soil samples because there was no excavation or overexcavation. Further borings were drilled in different areas of the site; see Table 2

[#] from initial QM on 5/9/92; see Table 4

^{##} from final QM on 3/24/96; see Table 4

[^] from last sampling of TPH-hf on 3/6/94; see Table 4

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Undetermined

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Undetermined

Does corrective action protect public health for current land use? YES

Site management requirements: NA

Should corrective action be reviewed if land use changes?

Monitoring wells Decommisioned: Not yet

Number Decommisioned: 8 4 Number Retained: A O

List enforcement actions taken: none List enforcement actions rescinded: none

V. ADDITIONAL COMMENTS, DATA, ETC.

MSE Environmental Inc. (MSE) was contracted by a law firm to conduct test borings and do a ground penetrating radar (GPR) survey of this site in 1989. MSE also conducted a historical search which referred to a Phase I Environmental survey dated 6/8/90. The Phase I indicated that a permit was obtained in 1937 to construct a Super Service Station. An aerial photo dated 1965 revealed a gas station. The MSE report also states that "the City of Oakland Fire Prevention Bureau had one permit on file for the excavation and removal of 3 gasoline USTs."

MSE's 1989 GPR survey concluded that no USTs were likely to exist at the site. See Figure 1. Five borings were drilled in 1990; 15 soil samples and one grab groundwater sample were collected. See Figure 2 and Table 1. Results indicated maximum soil concentrations of 17,000 mg/kg TPHg (TB-2-5'), 4.50 mg/kg benzene (TB-3-10'), 1,600 mg/kg TPH-d (TB-3-10'), and 63 mg/kg total lead (TB-3-10'). Groundwater collected from TB-2 included concentrations of ND BTEX, ND TPHg, and ND TPHd. The DTW was not reported.

MSE reportedly performed a soil gas survey on 4/21/90. Results indicated two types of hydrocarbons, gasoline and possibly kerosene; however, quantitative data was not collected. MSE also reportedly drilled six borings on 5/16/90 (SB-1 to SB-6). Results indicated a light hydrocarbon (HC) resembling gasoline in the NE portion of the site from 3-7'bgs, and a heavier HC in the NW portion of the site between 4-9'bgs. This information came from Appendix A in the 6/29/92 "Site Investigation" report by Alton-Geoscience. These two MSE reports are not included in the County file.

In 1992, Mobil Oil Corporation (Mobil) retained Alton-Geoscience (A-G) to conduct a preliminary site investigation. Mobil occupied the site from 1941 to 1970, when the USTs were reportedly removed (no samples collected). The site has been used as a parking lot since 1970. A-G reported that the property west of the site was occupied by a service station from 1914 through 1982, while the property to the east, across Webster St. was occupied by a service station from 1972 through 1980. See Figure 3.

On 3/28/92, A-G supervised a geophysical investigation to confirm that all USTs had been removed. Results were inconclusive; the GPR only went to a depth of 3.5 to 4'bgs. See Figure 4.

In April 1992, A-G drilled 10 soil borings (SB-1 through SB-10); the last four of which were completed as groundwater wells MW1 through MW4. Soils from 0-14'bgs were a relatively homogeneous layer of sand with some clays and silts, underlain by organic clay (Bay Mud) from approximately 14 to at least 24'bgs, in turn underlain by clayey sandy gravel to clayey gravelly sand from approximately 25' to the total depths explored.

Maximum soil concentrations were 520 mg/kg TPHg (MW3/SB9-5'), 45 mg/kg TPHd (MW3/SB9-5'), 910 mg/kg TRPH (MW1/SB7-5.5'), 77 mg/kg TPH-hydraulic fluid (SB5-5'), and 0.78 mg/kg benzene (MW3/SB9-5'). See Table 1. Groundwater concentrations are recorded in Table 2. Note that TDS was analyzed in two samples: results were 1,100 mg/L and 3,000 mg/L. Figure 5 shows the extent of HC concentrations in soil.

Since no borings were drilled in the vicinity of the magnetic anomaly supervised by A-G, the County requested hand borings directly in this area. Two borings were hand-augered to a depth of 5' bgs on 6/15/93. Soil samples were collected from 4 to 4.5'bgs. Results indicated ND TPHg, ND BTEX, ND TPHd, ND TPH-hf, and one hit of 12 mg/kg O&G by Method 413.2 (IR). No USTs were encountered.

Groundwater has been sampled since 5/9/92. See Table 3. The general flow direction has been northeast, in the general direction of Lake Merritt.

To summarize, the reasons that this case should be closed are as follows:

- * The sources have reportedly been removed (three USTs).
- * The site has been adequately characterized. During three separate subsurface investigations, 40 soil samples have been collected. Since May 1992, 16 rounds of groundwater samples have been conducted.
- * Groundwater results from the last QM indicate that BTEX was ND or below the MCLs, while TPHg and TPHd were at very low concentrations; MTBE was ND.
- * Although it is evident that soil and groundwater have been impacted from past releases of petroleum hydrocarbons at this site (26+ years ago), it appears that the residual soil and groundwater contamination is generally contained onsite. The groundwater contaminant plume is of low concentration, stable, and expected to diminish with time due to natural attenuation.
- * There are no sensitive human or environmental receptors in the site vicinity: Lake Merritt lies approximately 3,000 feet from the site (a significant and unlikely distance for a hydrocarbon plume to travel), and the site is used as a paved parking lot.

- There is likely no significant risk to human health. The maximum concentration of benzene in soil ever discovered at the site was 4.5 mg/kg, collected during MSE's 1990 investigation. This was at a depth of 10'bgs. Since the average DTW was approximately 6'bgs, as determined during A-G's 1992 investigation, this may not be the best sample to use to compare to ASTM RBCA numbers. However, 4.5 mg/kg benzene would not exceed the Risk Based Screening Level (RBSL) for the soil to outdoor air pathway, commercial scenario, 10-4 target level (13.25 mg/kg). The second highest benzene concentration was 2.4 mg/kg at a depth of 5'bgs (TB-4), also collected during MSE's 1990 investigation. This concentration also would not exceed the Risk Based Screening Level (RBSL) for the soil to outdoor air pathway, commercial scenario, 10-4 target level (13.25 mg/kg). Note that the benzene concentrations from samples collected subsequently (1992) were all ND, with the exception of 0.78 and 0.012 mg/kg in MW3/SB9.
- * The closure letter will require agency notification if there is a proposal for a change in land use, site activity, or structural configuration of the site (e.g. new construction or excavation activities).

VI. LOCAL AGENCY REPRESENTATIVE DATA

Name: Jennifer Eberle /	Title: Hazardous Materials Specialist
Name: Jennifer Eberle Signature: Work	Date: 10-24-96

Reviewed by

Name: Amy Leech Title: Hazardous Materials Specialist

Signature: added Date: 10/24/96

Name: Tom Peacock
Signature:

Date: //-496

VII. RWQCB NOTIFICATION

Date Submitted to RWQCB: 1 RWQCB Response: RWQCB Staff Name: Kevin Graves Title: Associate Water Resources Control Engineer

Date:

TRPH-(TPH-9) = 0+6

Table)

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Analytical Results of Soil Sampling Former Mobil Station 04-EWB 1975 Webster Street, Oakland, California

shyaimilic fluid

Concentrations in parts per million (ppm)

######################################	=======================================	:=========	=======================================	=======================================		7.555555	*=========					:=====
SAMPLE	DATE OF	SAMPLE	TPH-G	TPH-D	nfRPHILECE	* TPH-HF	В	T	E	X	Pb	LAB
ID	SAMPLING	DEPTH(ft)			04C							
	2226222222222			=======================================								!=====
TB-1	02/17/90	COMPOSITE	ND<10		ND<10		ND <0.005	ND<0.005	ND<0.005	ND<0.010	ND<5	PA
TB-2	02/17/90	COMPOSITE	2200 *		330 -		0.67	0.39	5.3	43	ND<5	PA
TB-2	02/17/90	5	17000 *				2 '	1.6	36	210		PA
TB-2	02/17/90	10	ND<10				ND<0.005	0.091	ND<0.005	ND<0.010		PA
TB-2	02/17/90	15	ND<10				ND<0.005	0.067	ND<0.005	ND<0.010		PA
TB-3	02/17/90	7	110"		230		0.95	0.048	1.8	2,2	48	PA
TB-3	02/17/90	10	61		1600 .	***	4.5	0.054	0.41	0.24	63	PA
TB-3	02/17/90	15	ND<10		ND<10	• • •	ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<5	PA
TB-4	02/17/90	5	3400 **		610		2.4	1.9	9.6	68	ND <5	PA
TB-4	02/17/90	10	ND<10		ND<10		ND<0.005	ND<0.005	ND<0.005	0.013	ND < 5	PA
TB-4	02/17/90	15	ND<10		ND<10		ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<5	PA
TB-5	02/17/90	COMPOSITE	ND<10		ND<10		ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<5	PA
SB-1	04/04/92	4.5- 5.0	ND<1.0		ND<1.0		ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050		SEQ
SB-1	04/04/92	10.0-10.5	ND<1.0	1.1	ND<1.0		ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050		SEQ
SB-1	04/04/92	15.0-15.5	ND<1.0		ND<1.0		ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050		SEQ
SB-1	04/04/92	21.0-21.5			ND<1.0	***						
SB-2	04/04/92	2.5- 3.0	ND<1.0	ND<1.0			ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050		SEQ
SB-2	04/04/92	10.5-11.0	ND<1.0	ND<1.0	ND<1.0		ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050		SEQ
SB-2	04/04/92	19.5-20.0	ND<1.0		•••		ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050		SEQ
SB-3	04/04/92	5.0- 5.5	ND<1.0				ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050		SEQ
SB-3	04/04/92	6.0- 6.5		ND<1.0	ND<1.0							
SB-3	04/04/92	11.0-11.5	ND<1.0	ND<1.0	ND<1.0		ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050		SEQ
SB-4	04/04/92	3.0- 3.5	ND<1.0	1.8 ***	85	6.7	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050		SEQ
SB-4	04/04/92	11.0-11.5			ND<1.0							
SB-4	04/04/92	16.0-16.5	ND<1.0	15 ***	ND<1.0	3.4	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050		SEQ
SB-5	04/04/92	5.0- 5.5	3.3	17 ***	560 »	77 -	ND<0.0050	0.0063	0.0090	0.017		SEQ
SB-5	04/04/92	11.0-11.5	ND<1.0	2.6 ***	ND<1.0		ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050		SEQ
SB-5	04/04/92	16.0-16.5	ND<1.0	2.1	ND<1.0		ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050		SEQ

Table

30-0622

Analytical Results of Soil Sampling
Former Mobil Station 04-EWB
1975 Webster Street, Oakland, California

Concentrations in parts per million

			1								.======	======
EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	DATE OF SAMPLING	SAMPLE DEPTH(ft)	TPH-G	TPH-D '	046 1964	҈ ТРН-НF′	В	T	E	X	Pb	LAB
========= SB-6	04/04/92	4.5- 5.0	120 ****		180	5.1	ND<0.0050	ND<0.0050	ND<0.0050	0.68		SEQ
SB-6	04/04/92	10.5-11.0	ND<1.0	ND<1.0	ND<1.0		ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050		SEQ ,
\$8-6	04/04/92	16.0-16.5	ND<1.0	2.1	ND<1.0		ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	•	SEQ
W-1 (SB-7)	04/04/92	5.5- 6.0	ND<1.0	1.8	910	20**	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050		SEQ
MW-1 (SB-7)	04/04/92	10.5-11.0	ND<1.0	ND<1.0	ND<1.0		ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050		SEQ
MW-2 (SB-8)	04/04/92	5.5- 6.0	\ ND<1.0	ND<1.0	ND<1.0		ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050		SEQ
MW-2 (SB-8)	04/04/92	10.5-11.0	ND<1.0	ND<1.0	ND<1.0		ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050		SEQ
MW-3 (SB-9)	04/05/92	5.0- 5.5	520	45. ***	130	3.5	0.78	2.7	1.7	2.4	土	SEQ
MW-3 (SB-9)	04/05/92	8.5- 9.0	16	8.2 ***	26		0.012	0.088	0.059	0.12	}-	SEQ
MW-3 (SB-9)	04/05/92	13.5-14.0	ND<1.0	3.7	ND<1.0	-1-	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050		SEQ
MW-4 (SB-10)	04/05/92	5.0- 5.5	ND<1.0	ND<1.0	ND<1.0		ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	- }-	SEQ
MW-4 (SB-10)	04/05/92	10.5-11.0	ND<1.0	ND<1.0	ND<1.0		ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050		SEQ
EXPLANATION OF	ABBREVIATIO)NS:	;=====================================								V	
TPH-G	:total per	troleum hydrod	carbons as gaso	line			not measured/				3.7,	
TPH-D			carbons as dies	el	,		sample report matching gaso			·am —	3.9 p	on
TOG TPH-HF	itotal Oli	l and grease troleum bydrod	carbons as hydr	aulic fluid		** :	sample chroma	togram resem	bled aged ga	soline <	-nz	4. 1
8	:benzene	otean nyaro					or possibly a	viation fuel			~~_	yine
_ T	:toluene				•		sample report					
E	:ethylben						appearing to					
X	total xy:	enes			,		sample report					
Pb	:lead						appearing to Performance A					
ND		cted at or abo	ove reported				rertormance A Sequoia Analy		nc.			
NA	detection	n limit icable/not ava	ailable		,	SEW .	seducia vijara	ricat raps				
NA	:not abbt	Capteling BAS	11 (apre									

Note: Analysis for semi-volatile organic compounds (SVOCs) of SB-9 at 5 fbg detected 3.9 ppm 2-methylnaphthalene.

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Analytical Results of Ground Water Monitoring and Sampling Former Mobil Station 04-EW8 1975 Webster Street, Oakland, California

Concentrations in parts per billion (ppb)

	WELL ID	DATE OF SAMPLING/ MONITORING	TOP OF CASING ELEVATION	DEPTH TO WATER	GROUND WATER ELEVATION	TPH-G	TPH-D	TPH-HF	TOG	В	T	E	X	SVOCs	TDS (mg/l)	Salinity) 	(mg/l)	3/7
	MW-1	 05/09/92	.03 8.03	5.56	2.47	ND<30	52	320-	ND <5	ND<0.30	ND<0.30	ND<0.30	ND<0.30	•••				
	MW-1	05/25/92	8.03	5.70	2.33	***											•••	
10	MM-5	05/09/92	9.37	6.70	2.67	ND<30	130	250₺	ND<5	ND<0.30	ND<0.30	ND<0.30	NO<0.30				0.022	
,U	MW-2	05/25/92	9.37	6.89	2.48		•••	***					***	ND	1100	1.0	0.022	Q
$\hat{\cdot}$	MW-3	05/09/92	7.71	5.42	2.29	210 🐁	130 ***	290	ND<5	ND<0.30	ND<0.30	ND<0.30	ND<0.30		7000	2.4	0.007	9.
Γ.	MW-3	05/25/92	7.71	5.65	2.06							•••		a) 12 b) 5.7° c) 17° d) 6.7	3000	2.6	0.0097	1.
	MW-4	05/09/92	8.68	6.01	2.67	ND<30	ND<50	280	ND<5	ND<0.30	ND<0.30	ND<0.30	ND<0.30					
	MW-4	05/25/92	8.68	6.34	2.34			•••		•••							* * *	

EXPLANATION OF ABBREVIATIONS:

:total xylenes

TPK-G TPK-D TPH-KF	:total petroleum hydrocarbons quantified as gasoline :total petroleum hydrocarbons quantified as diesel :total petroleum hydrocarbons quantified as hydraulic fluid	TDS ND NA	:total dissolved solids :not detected :not applicable/not available :not analyzed/not measured	Semi-Volatile Organic (a) 2-pentene, 4,4-dim b) benzene, 2-methyl-
TOG	:total oil and grease	*	:sample reported as not appearing to	c) 1-H-Inden-1-one, 2
В	:benzene		contain gasoline	d) * Hexadeconic acid
T	:toluene	**	:sample reported as not appearing to	•
E	:ethylbenzene		contain diesel	

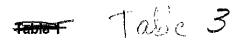
Compounds (SVOCs)

- methyl
- -1-methylenepropyl
- 2,3-dihydro,3-methyl

Notes: 1) Top of casing elevations were surveyed in reference to City of Oakland Survey Station 31/C-2 in the concrete walk on the east side of Broadway, 6.3 feet east of the east curb of Broadway and 67 feet north of the north curb of 26th Street.

- 2) Samples MW-2 and MW-3 were additionally analyzed for "Hydrocarbon fuel fingerprint" using modified EPA Method 8015. Both of the samples were found to contain hydrocarbons in several ranges, including gasoline, stoddard solvent, kerosene, paint thinner, aviation fuel, and diesel ranges. However, based on comparisons with chromatograms of these standards, none of these fuels could be absolutely identified as being present in the samples.
- 3) Analysis were performed by Sequoia Analytical Laboratories

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Summary of Groundwater Monitoring and Analysis

Former Mobil Station 04-EWB

Well ID	Date	Top of Casing Elevation	Depth to Water	Ground- water Elevation	TPH-G (ppb)	TPH-D (ppb)	TPH-HF (ppb)	TOG (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
		Elevation	vvalei	Elevation							(bbp)	(ppb)	
MW-1	05/09/92	8.03	5.56	2.47	ND	52	320	ND	ND	ND	ND	ND	_
,,,,,	05/25/92	0.00	5.70	2.33						-			
	08/29/92		5.59	2.44	ND		* ND		ND	ND	ND	ND	_
	01/10/93		4.83	3.20	ND	ND	ND	ND	ND	ND	ND	ND	
	04/25/93		5.10	2.93	ND	-		ND	ND	ND	ND	ND	
	05/02/93		5.20	2.83	-	ND	ND				-	-	
	06/13/93		6.05	1.98			_				_		_
	07/18/93		5.50	2.53	-	_		-		_	_		
	08/22/93		5.60	2.43			_						-
	09/12/93		5.69	2.34	ND	ND	ND	ND	ND	ND	ND	ND	
	12/05/93		5.65	2,38	ND	160	_		ND	ND	ND	ND	_
	03/06/94				ND	ND	ND	ND	ND	ND	ND	ND	_
	06/26/94		5.54	2.49	140	100	_	•••••	2.4	6.1	8.2	26	-
	09/18/94		5.82	2.21	ND	ND	_		ND	ND	ND	ND	
	12/18/94		5.13	2.90	ND	ND	_		ND	0.53	0.61	1.9	
	03/05/95		5.07	2.96	270	240			11	22	7.9	31	
	03/24/96		4.63	3.40	ND	85		_	ND	ND	ND	0.72	ND
MW-2	05/09/92	9.37	6.70	2.67	ND	130	250	ND	ND	ND	ND	ND	
	05/25/92		6.89	2.48				_			- .		-
	08/29/92		6.35	3.02	ND	100	* ND		ND	ND	ND	ND	
	01/10/93		5.92	3.45	ND	59 1	* ND	ND	ND	ND	ND	ND	
	04/25/93		5.15	4.22	ND	-		ND	ND	ИD	ND	ND	
	05/02/93		5.80	3.57		ND	ND			_		_	
	06/13/93		5.27	4.10	_	_	_	-	mere	_	_		_
	07/18/93		6.34	3.03		_	_		-	_	_		_
	08/22/93		6.56	2.81					-	-			
	09/12/93		6.69	2.68	ND	NĐ	ND	ND	ND	ND	ND	ND	_
	12/05/93		7.12	2.25	ND	190			ND	ND	ND	ND	
	03/06/94		_		560	750	ND	ND	52	ND	41	3.4	-
	06/26/94		6.68	2.69	ND	ND	-	_	ND	ND	ND	0.84	
	09/18/94		7.29	2.08	ND	ND	-		ND	ND	ND	ND	-
	12/18/94		6.56	2.81	ND	ND	_	_	ND	ND	ND	ИD	
	03/05/95		5.65	3.72	ИD	72	-	_	1.9	4.2	1.6	6.3	_
	03/24/96		4.84	4.53	ND	ND	Par Au		ND	ND	ND	1.7	ND

Table 3

Summary of Groundwater Monitoring and Analysis

Former Mobil Station 04-EWB

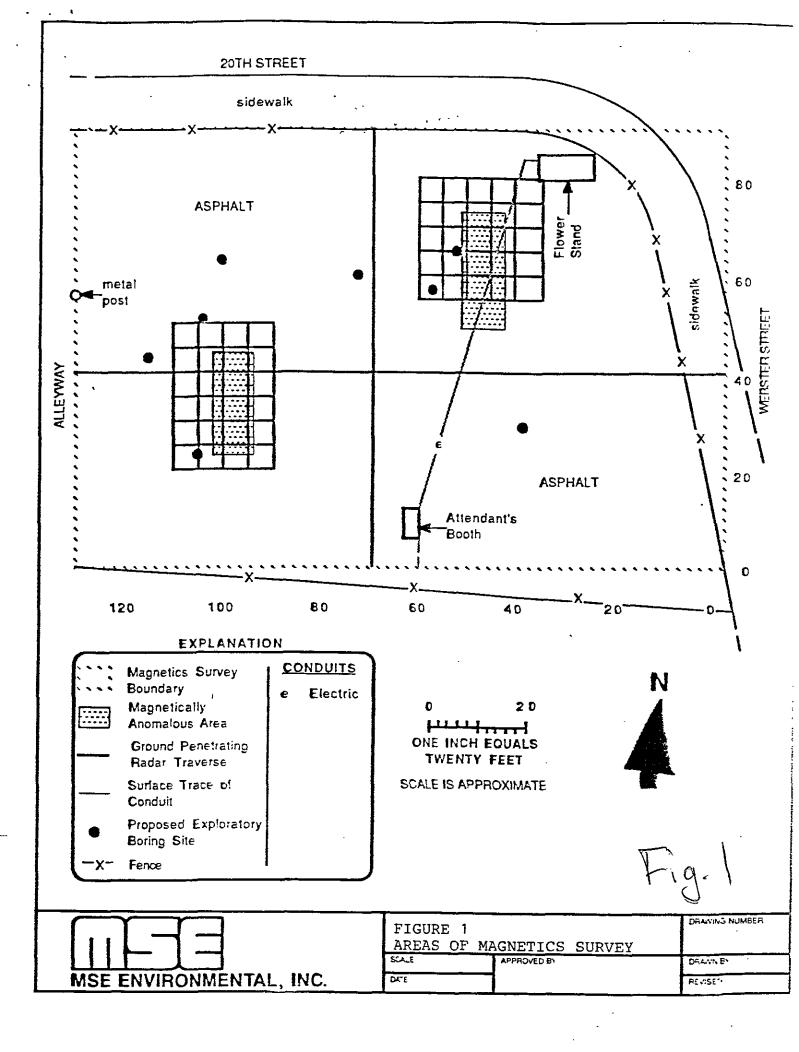
Well ID	Date	Top of Casing Elevation	Depth to Water	Ground- water Elevation	TPH-G (ppb)		TPH-D (ppb)		TPH-HF (ppb)	TOG (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
MW-3	05/09/92	7.71	5.42	2.29	210	*	130	**	290	ND	ND	ND	ND	ND	
	05/25/92		5.65	2.06	-		_					-	-	_	
	08/29/92		6.04	1.67	ND		150	**	ND		ND	ND	ND	ND	
	01/10/93		4.40	3.31	920	#	1,900	##	ND	ND	3.4	0.50	4.4	1.7	
	04/25/93		5.60	2.11	930				_	ND	3.6	ND	ND	3	_
	05/02/93		5.20	2.51			1,200		ND						
	06/13/93		5.41	2.30	_				_						
	07/18/93		5.83	1.88			-			-			_		
	08/22/93		6.00	1.71	-										_
	09/12/93		6.08	1.63	200		620	an.	ND	ND	ND	0.79	ND	0.79	
	12/05/93		5.66	2.05	2,000		1,400	##			23	ND	6.1	ND	
	03/06/94				7,800		2,400		ND	2.7	7.0	ND	510	ND	
	06/26/94		5.59	2.12	210		370			_	ND	ND	ND	0.87	
	09/18/94 12/18/94		6,29 4,44	1.42 3.27	130		310 890		_	_	ND	ND	ND	ND	_
	03/05/95		4.44 4.64	3.27 3.07	500 990		1,400		_	_	1.6 1.4	ND	1.7 1.0	1.5	_
	03/05/95		4. 04 4.77	3.07 2.94	990 150		200		_	_	0.66	1.0 ND	0.62	1.7 ND	ND
	03/24/90		4.77	2.94	150		200		_	_	0.66	MD	0.02	ND	ND
MW-4	05/09/92	8.68	6.01	2.67	ND		ND		280	ND	ND	ND	ND	ND	
	05/25/92		6.34	2.34			-			_					
	08/29/92		7.05	1.63	ND		ND		ND		ND	ND	ND	ND	
•	01/10/93		5.12	3.56	ND		ND		ND	ND	ИD	ND	ND	ND	_
	04/25/93		5.75	2.93	ND				-	ND	ND	ND	ND	ND	
	05/02/93		5.70	2.98	_		ND		ND			-		-	_
	06/13/93		5.97	2.71	_				-			_			-
	07/18/93		6.57	2.11	_		-				_				
	08/22/93		7.00	1.68	_				-	-	_				_
	09/12/93		7.23	1.45	ND		ND		ND	ND	ND	ND	ND	ND	
	12/05/93		6.86	1.82	ND		150			_	ND	ND	ND	ND	_
	03/06/94		_		ND		240		ND	ND	ND	ND	ND	ND	- :
	06/26/94		6.34	2.34	ND		ND			_	ND	ND	0.58	1,4	_
	09/18/94		7.47	1.21	ND		ND			-	ND	ND	ND	ND	-



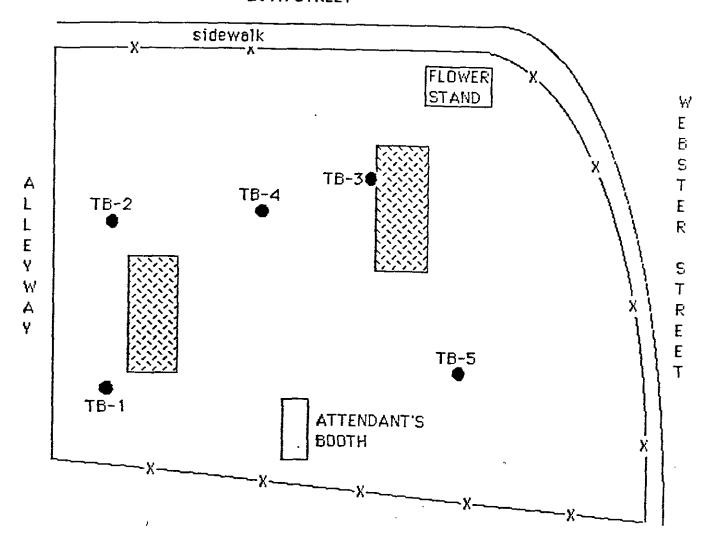
Summary of Groundwater Monitoring and Analysis

Former Mobil Station 04-EWB

Well ID	Date	Top of Casing Elevation	Depth to Water	Ground- water Elevation	TPH-G (ppb)	TPH-D (ppb)	TPH-HF (ppb)	TOG (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
MW-4 (con't)	12/18/94 03/05/95 03/24/96		4.76 5.04 5.80	3.92 3.64 2.88	ND ND ND	ND ND ND		<u>-</u>	ND 1.6 ND	ND 3,8 ND	ND 1.5 ND	0.91 5.0 0.98	 ND
NOTES:	ppb = TPH-G = TPH-D = TPH-HF = TDS = ND = - =	parts per billion total petroleum total petroleum total petroleum total dissolved s not detected at not measured/n non-gasoline m	hydrocarbon hydrocarbon hydrocarbon folids or above det ot analyzed	s as diesel s as hydraulic fl	uid		** = # = ## = SVOCs = a = b = c = d =	diesel and r semi-volatil 2-pentene, benzene, 2-	d non-gasoline r non-diesel mixtu e organic compo 4,4-dimethyl methyl-1-methy i-one, 2,3-dihydi	re ounds lenepropyl			



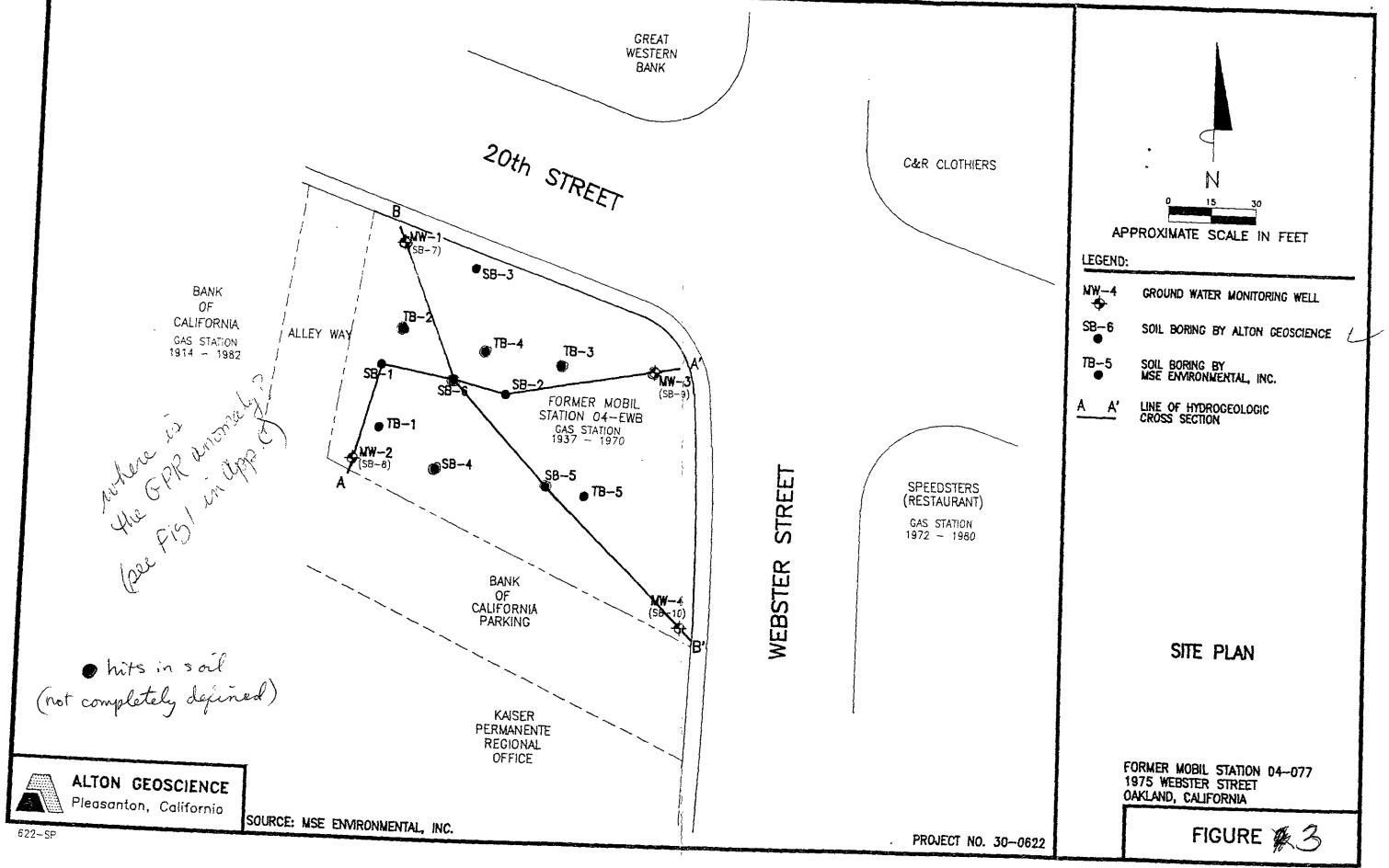
20TH STREET

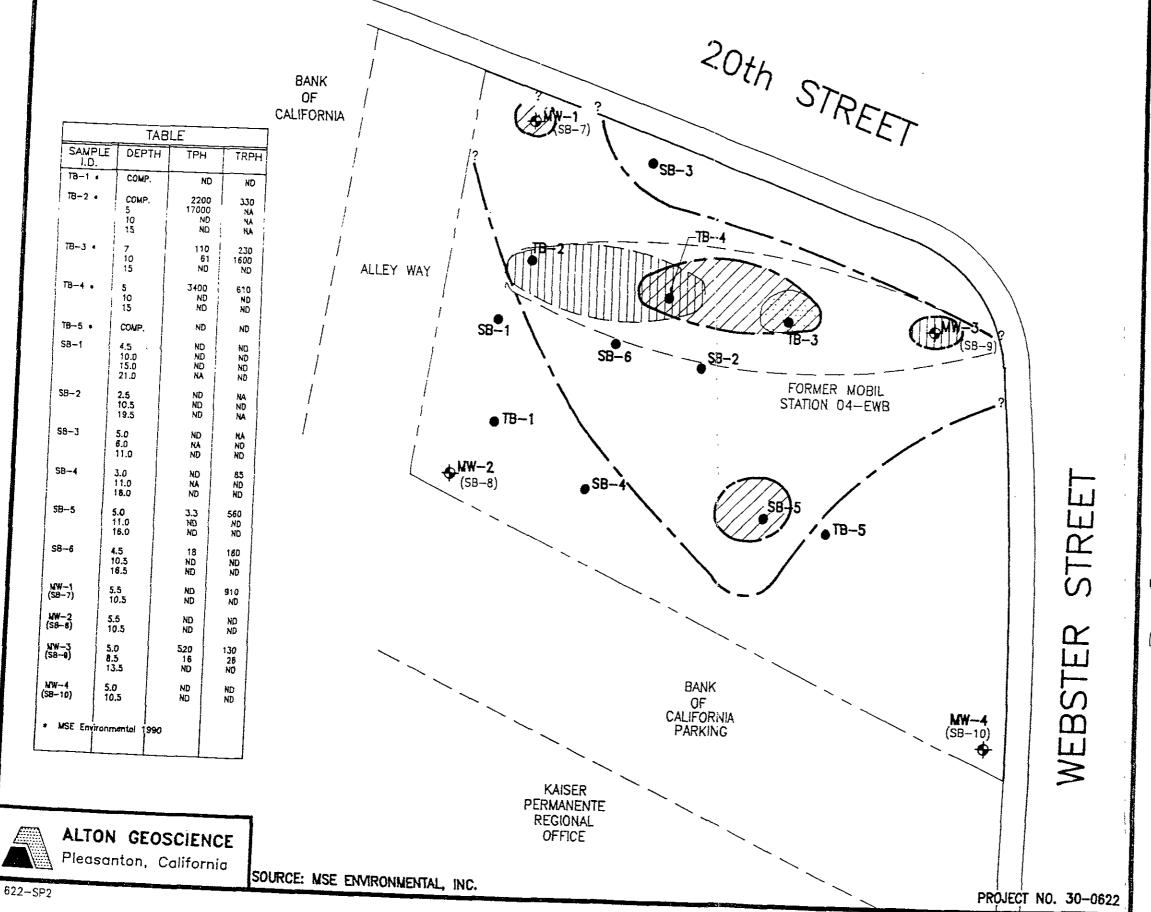


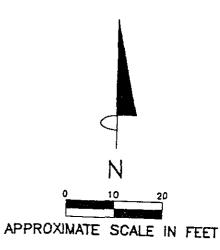
Suspected Areas Of Pre-Existing Underground Storage Tanks

Fig 2

	FIGURE 2 TEST BORING		
MSE ENVIRONMENTAL, INC.	SCALE DATE	APPROVED By	DRAMI E: REVISED







LEGEND:

GROUND WATER MONITORING WELL WW-4

SOIL BORING BY MSE ENVIRONMENTAL, INC. TB-5

SB-6 SOIL BORING BY ALTON GEOSCIENCE

TOTAL PETROLEUM HYDROCARBONS TPH

TOTAL RECOVERABLE PETROLEUM TRPH HYDROCARBONS

PARTS PER MILLION ppm

Fbg FEET BELOW GRADE

APPROXIMATE EXTENT OF TRPH

TRPH>100ppm from 0-5 Fbg TRPH>500ppm from 0-5 Fbg TRPH>500ppm from 5-10 Fbg

APPROXIMATE EXTENT OF TPH

TPH>100ppm from 0-5 Fbg

TPH>500ppm from 0-5 Fbq

RESULTS REPORTED FOR TPH REFLECT LABORATORY
ANALYSIS FOR LOW TO MEDIUM BOILING POINT
HYDROCARBONS QUANTIFIED AGAINST A GASOLINE STANDARD

HYDROCARBON CONCENTRATIONS IN SOIL

FORMER MOBIL STATION 04-EWB 1975 WEBSTER STREET OAKLAND, CALIFORNIA



FIGURE ONE

AREA OF GEOPHYSICAL INVESTIGATION ON A PORTION OF THE PARKING LOT ON THE SOUTHWEST CORNER OF 20TH AND WEBSTER STREETS, OAKLAND, CA



