ALCO HAZMAT



2410 Camino Ramon San Ramon, CA 94583

San Ramon, CA 94583-0804

Marketing Department

Phone 510 842 9500

P.O. Box 5004

Chevron U.S.A. Products Company

94 FEB 10 PM 2: 15

February 9, 1994

JE 4249

Mr. Barney Chan Alameda County Health Care Services Department of Environmental Health 80 Swan Way, Room 200 Oakland, CA 94621

Re:

Former Chevron Service Station #9-4612 3616 San Leandro Street, Oakland, CA

Dear Mr. Chan:

Enclosed is the quarterly Groundwater Monitoring and Sampling Activities report dated December 13, 1993, prepared by our consultant Groundwater Technology, Inc. (GTI) for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline and BTEX. Concentrations of these constituents are consistent with historical results. Sampling of MW-3 for TPH-D was inadvertently overlooked during the past sampling round, however this analysis will be performed during subsequent sampling events.

During the initial survey of monitor wells MW-2 and MW-3, the designation for these wells was reversed. The elevations have been corrected and all corrected historical gradient maps are included in the report. Depth to ground water during the past quarter was measured at approximately 13 feet below grade and the direction of flow is to the southeast.

As we discussed by telephone on September 29, 1993, we will instruct our consultant to prepare a work plan for additional soils investigation near the northern former pump island and off-site ground water investigation. Currently we are targeting March 18, 1994, for submittal of the work plan.

Chevron will continue to monitor and sample all wells at this site on a quarterly basis.

If you have any questions or comments, please do not hesitate to call me at (510) 842-8134.

Sincerely,

CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller

Site Assessment and Remediation Engineer

Enclosure

cc: Mr. Rich Hiett, RWQCB - Bay Area

Ms. B.C. Owen

Mr. Jack Ratto 191 98th Avenue Oakland, CA 94603

Mr. Vernon C.McIlraith 1809 Golden Rain Road, #5 Walnut Creek, CA 94595

File: 9-4612 QM3

*



4057 Port Chicago Highway, Concord, CA 94520 (415) 671-2387

Project No. 020204099

FAX: (415) 685-9148

December 13, 1993

Mr. Mark Miller Chevron U.S.A. Products Company 2410 Camino Ramon San Ramon, CA 94583-0804 H 4249

SUBJECT:

Groundwater Monitoring and Sampling Activities

Chevron Service Station No. 9-4612

3616 San Leandro Street, Oakland, California

Dear Mr. Miller:

Groundwater Technology, Inc. presents the attached quarterly groundwater monitoring and sampling data collected on November 3, 1993. Three groundwater monitoring wells at this site were gauged to measure depth to groundwater (DTW) and to check for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not detected in the monitoring wells. A potentiometric surface map (Figure 1) and a summary of groundwater monitoring data (Table 1) are presented in Attachments 1 and 2, respectively. Figures 2, 3, and 4 represent corrected potentiometric surface maps for the three previous quarters. Identification for monitoring wells MW-2 and MW-3 were erroneously switched during the initial wellhead elevation and location survey. After the DTW was measured, each monitoring well was purged and sampled. The groundwater samples collected were analyzed for benzene, toluene, ethylbenzene, and xylenes and for total petroleum hydrocarbons-as-gasoline. Results of the chemical analyses are summarized in Table 1. The laboratory report and chain-of-custody record are included in Attachment 3. Monitoring-well purge water was transported by Groundwater Technology to the Chevron Terminal in Richmond, California, for recycling.

Groundwater Technology is pleased to assist Chevron on this project. If you have any questions or comments, please contact our Concord office at (510) 671-2387.

Sincerely,

Groundwater Technology, Inc.

Written/Submitted by

Tim Watchers

Project Geologist

PR <u>(</u>)m/)

Attachment 1

Figures

Attachment 2 Attachment 3 Table Laboratory Report Groundwater Technology

Reviewed/Approved b

Michael C. Blundel Registered Geologi

No. 5146

Wendell W. Lattz

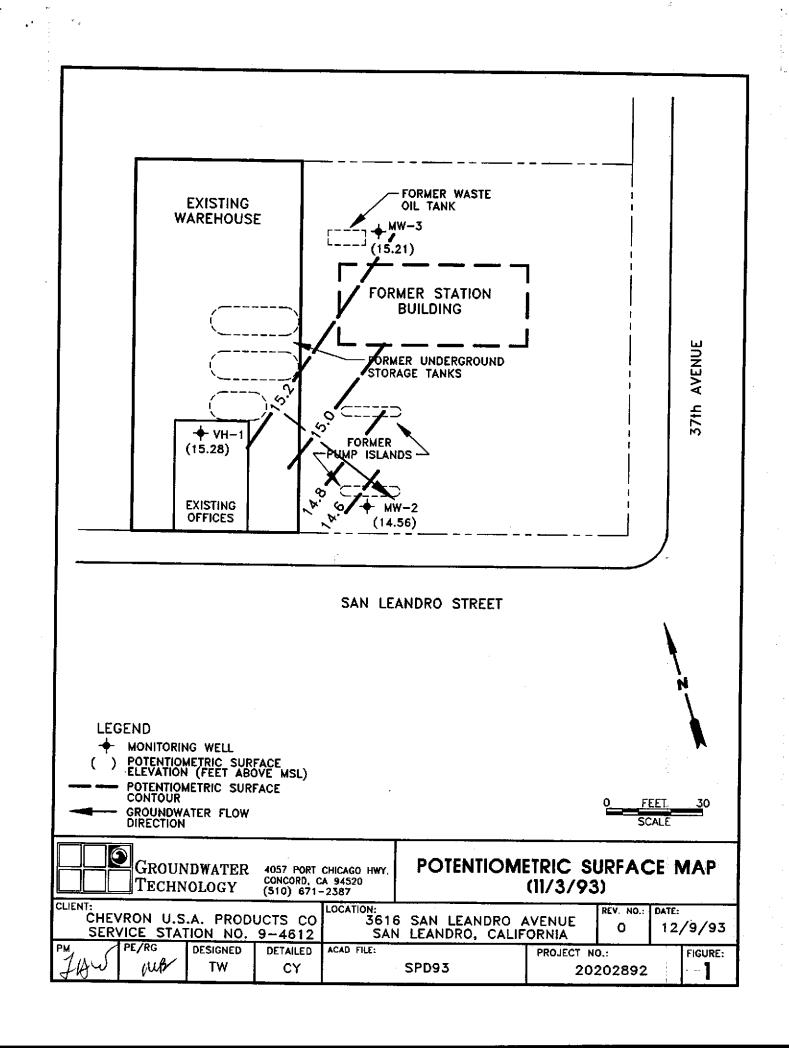
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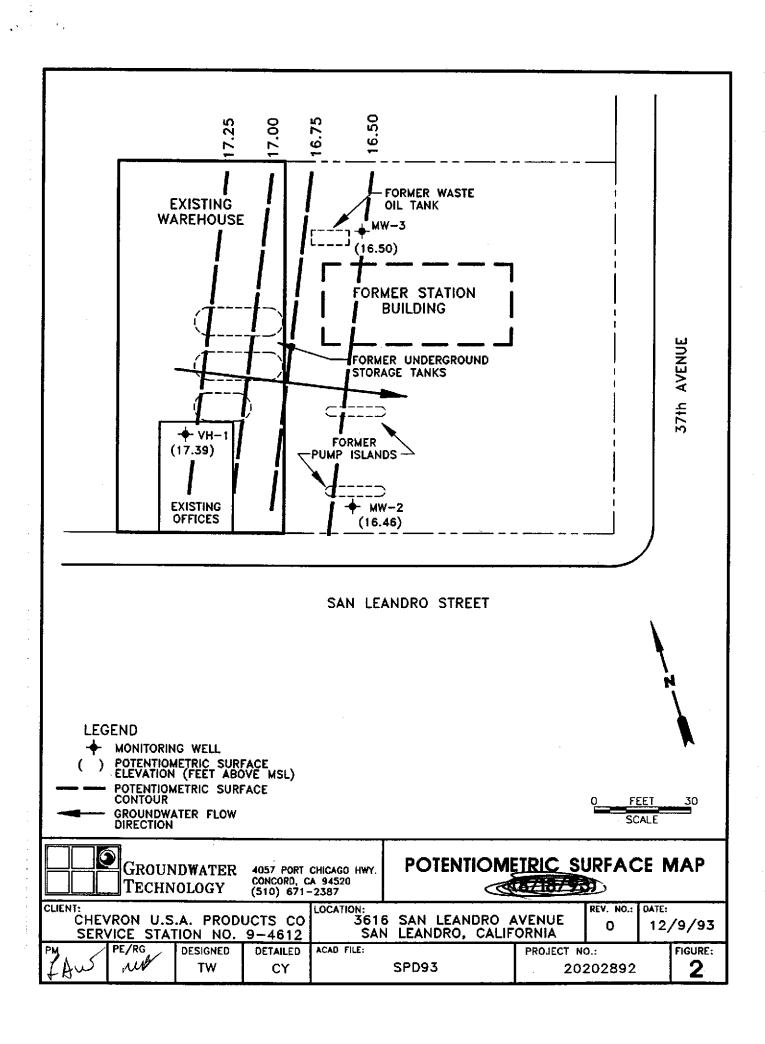
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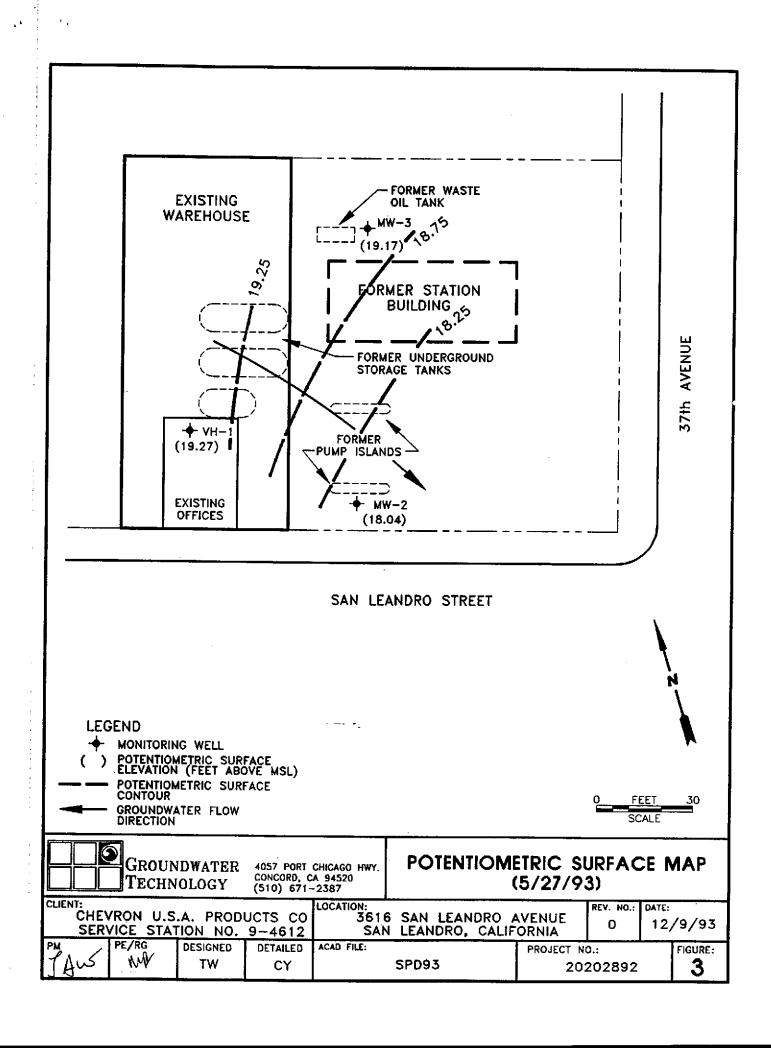
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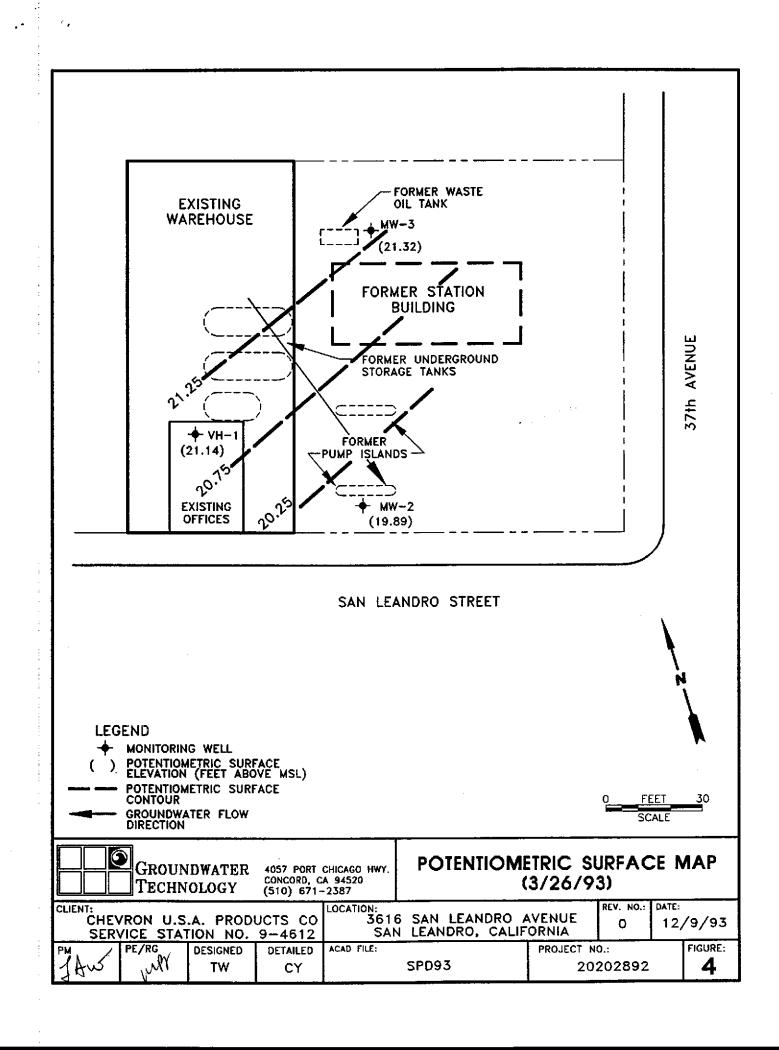
ATTACHMENT 1

Figures









ATTACHMENT 2

Table

TABLE 1 MONITORING DATA AND ANALYTICAL RESULTS OF GROUNDWATER Chevron Station No. 9-4612 3616 San Leandro Street, Oakland, California

Well ID/Elev	Darte	TPH-G	Benzene	Toulene	Ethyl- benzene	Xylenes	TPH-D	TOG	ную	DTW	SPT	GWE
VH-1	08/10/88	11,000	3,300	200	520	540		Ī	<u> </u>	(ft)	(m)	(10)
	06/01/89	15,000	2,200	120	540	310				13.00	-	
	09/15/89	5,600	1,900	90	350	160	J		[-	10.32		·
	12/08/89	11,000	1,900	69	270	1				15.69		
	03/07/91	4,500	820	39	120	99		-~-		14.77		
	09/24/91	3,300	520	19	39	77				11.26		
	01/08/92	5,000	600	34	39 81	27				12.98		İ
	04/20/92	7,400	670	60	110	76				13,77		
27.85	03/26/93	4,900	600	40	72	140				8.18		
	05/27/93	13,000	1,600	120	230	94	~			6.71	0.00	21.1
	08/18/93	2,700	210	10		220				8.58	0.00	19,2
	11/03/93	4,600	680	42	8.1	18				10.46	0.00	17.3
MILLO					35	68		<u></u>		12.57	0.00	15.2
MW-2	02/16/93	9,200	720	110	250	170						10.2
27.51	03/26/93										~	
	05/27/93	360	5.3	2.1	1.8	2.5		 -		7.62	0.00	19.89
	08/18/93	9,400	1,100	76	110	100		- 	i -	9.47	0.00	18.04
	11/03/93	8,600	390	20	2.7	120			[-]	11.05	0.00	16.46
MW-3	02/16/93	0.500				- 120				12.95	0.00	14.56
28.50	03/26/93	3,500	<0.5	8,1	4.6	7.7						
	05/27/93	4 000								7.18		
j	08/18/93	4,200	580	84	150	100	~				0.00	21.32
ļ	11/03/93	910	12	3.7	6.2	3.8	1,400	<5.000	ND	9.33	0.00	19.17
	11/03/93	5,300	29	1.9	0.6	27				12.00	0.00	16.50
TRIP	05/27/93	<50	<0.5	<0.5	-0.5					13.29	0.00	15.21
BLANK	08/18/93	<50	<0.5	<0.5	<0.5	<1.5				[
J	11/03/93	<50	<0.5	<0.5	<0.5	<1.5			.			
┵			10.0	_ \v.5	<0.5	<0.5	~-~	1	l.			

TPH-G = Total petroleum hydrocarbons-as-gasoline

DTW = Depth to water

SPT = Separate-phase hydrocarbons

Groundwater elevation in feet above mean sea level relative to United States Geological Survey brass disc GWE = HVO

Halogenated volatile organics

Not available, not sampled, not monitored

Data for VH-1 (August 10, 1988 to April 20, 1992) from Pacific Environmental Group Inc. Report, May 18, 1992. Concentrations are presented in parts per billion (ppb).



ATTACHMENT 3

Laboratory Report



825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

GROUNDWATER TECHNOLOGY, INC.

Project 20204099

Attn: KEN JOHNSON

Reported 11/12/93

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
30042- 1	TB-LB	11/03/93	11/11/93 Water
30042- 2	VH-1	11/03/93	11/10/93 Water
30042- 3	MW-2	11/03/93	11/10/93 Water
30042- 4	MW-3	11/03/93	11/10/93 Water

RESULTS OF ANALYSIS

Laboratory Number: 30042-1 30042-2 30042-3 30042-4

Gasoline: Benzene: Toluene: Ethyl Benzene:	ND<50 ND<0.5 ND<0.5 ND<0.5	4600 680 42 35	8600 390 20 2.7	5300 29 1.9 0.6	
Total Xylenes: Concentration:	ND<0.5	68 ug/L	120 ug/L	27 ug/L	
Composition of Catal	ч9/п	49/H	ug/ 🛚	ug/ L	

Page 1 of 2

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2 QA/QC INFORMATION SET: 30042

NA = ANALYSIS NOT REQUESTED

ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT

ug/L = parts per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F: Minimum Detection Limit in Water: 5000ug/L

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons: Minimum Quantitation Limit for Diesel in Water: 50ug/L

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons: Minimum Quantitation Limit for Gasoline in Water: 50ug/L

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Water: 0.5ug/L

ANALYTE	MS/MSD RECOVERY	RPD	CONTROL LIMIT
		-	
Gasoline:	96/88	9%	70-130
Benzene:	100/103	3%	70-130
Toluene:	106/109	3%	70-130
Ethyl Benzene:	110/115	4%	70-130
Total Xylenes:	110/116	5%	70-130

Senior Chemist

Fax co	opy of	Lab	Re	port	and	COC to	Ch	evro	n C	onta	ct: i	U 7	es lo	30	00	42	cha	in-	∙of-	-Car	stody-Recor		
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:	ĺ			Project Contact (Name) kan Juhuson Con (Phone) 671-2387 (Fax Number) SI												Signature Rin Luck							
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