HAZMAT 93 NOV 15 PH 3: 27



November 11, 1993

Chevron U.S.A. Products Company 2410 Camino Ramon San Ramon, CA 94583 P.O. Box 5004 San Ramon, CA 94583-0804

Ms. Juliet Shin Alameda County Health Care Services Department of Environmental Health 80 Swan Way, Room 200 Oakland, CA 94621

Marketing Department Phone 510 842 9500

Re: Former Chevron Service Station #9-2384 15526 Hesperian Boulevard, San Lorenzo, CA

Dear Ms. Shin:

Enclosed is the quarterly Groundwater Monitoring and Sampling Activities report dated October 25, 1993, prepared by our consultant Groundwater Technology, Inc. for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and BTEX. Benzene was detected in monitor wells MW-1 and MW-2 at concentrations of 0.9 ppb and 23 ppb, respectively. Depth to ground water was measured at approximately 12.7 feet to 13.3 feet below grade and the direction of flow is to the west.

In Chevron's letter of September 22, 1993, we indicated that one more round of monitoring and sampling would occur prior to submitting a work plan for off-site delineation. The need for off-site investigation was dictated by the presence of dissolved hydrocarbons in the most downgradient on-site well, MW-6. The results of this sampling event indicate that concentrations of dissolved hydrocarbons are below method detection limits in this well.

At this time we feel it is appropriate to monitor and sample all wells at this site on a quarterly basis for a period of one year. If significant changes in hydrocarbon concentrations occur during this time period, we will respond accordingly. At the conclusion of one year, the site data will be reevaluated and appropriate next actions proposed.

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

Sincerely,

CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller

Site Assessment and Remediation Engineer

Enclosure

cc: Mr. Eddy So, RWQCB - Bay Area

Ms. B.C. Owen File (9-2384 QM4) Mr. Ken Williams Century 21 Korpi & Associates 15200 Hesperian Blvd. San Leandro, CA 94570

Dr. Beryl Bearint 19135 S.E. Coral Reef Lane Jupiter, FL 33458-1051



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

Project No. 020204094

FAX: (415) 685-9148

October 25, 1993

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

SUBJECT:

Groundwater Monitoring and Sampling Activities

Chevron Service Station No. 9-2384

15526 Hesperian Boulevard, San Lorenzo, California

Dear Mr. Miller:

Groundwater Technology, Inc. presents the attached groundwater monitoring and sampling data collected on September 22 and October 1, 1993. Five of the six groundwater monitoring wells at this site were gauged to measure depth to groundwater (DTW) and to check for the presence of separate-phase hydrocarbons on September 22 and October 1, 1993. Separate-phase hydrocarbons were not detected in the monitoring wells. Monitoring well MW-5 was not accessible because the well had been paved over. A potentiometric surface map (Figure 1) and a summary of groundwater monitoring data (Table 1) are presented in Attachments 1 and 2, respectively. After the DTW was measured, monitoring wells MW-1, MW-2, MW-3 were purged and sampled on September 22, 1993 and monitoring wells MW-4 and MW-6 were purged and sampled on October 1, 1993. The groundwater samples 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 removed by Groundwater Technology and transported 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 call our Concord office at (510) 671-2387.

Sincerely.

Groundwater Technology, Inc.

Written/Submitted by

Tim Watchers

Project Geologist

PR <u>△</u>,∴

Attachment 1

Figure

Attachment 2

Table

Attachment 3

Laboratory Report

Groundwater Technology, Ing

Reviewed/Approved by

Michael C. Blundell

Registered Geologist

No. 5146

For:

Wendell W. Lattz

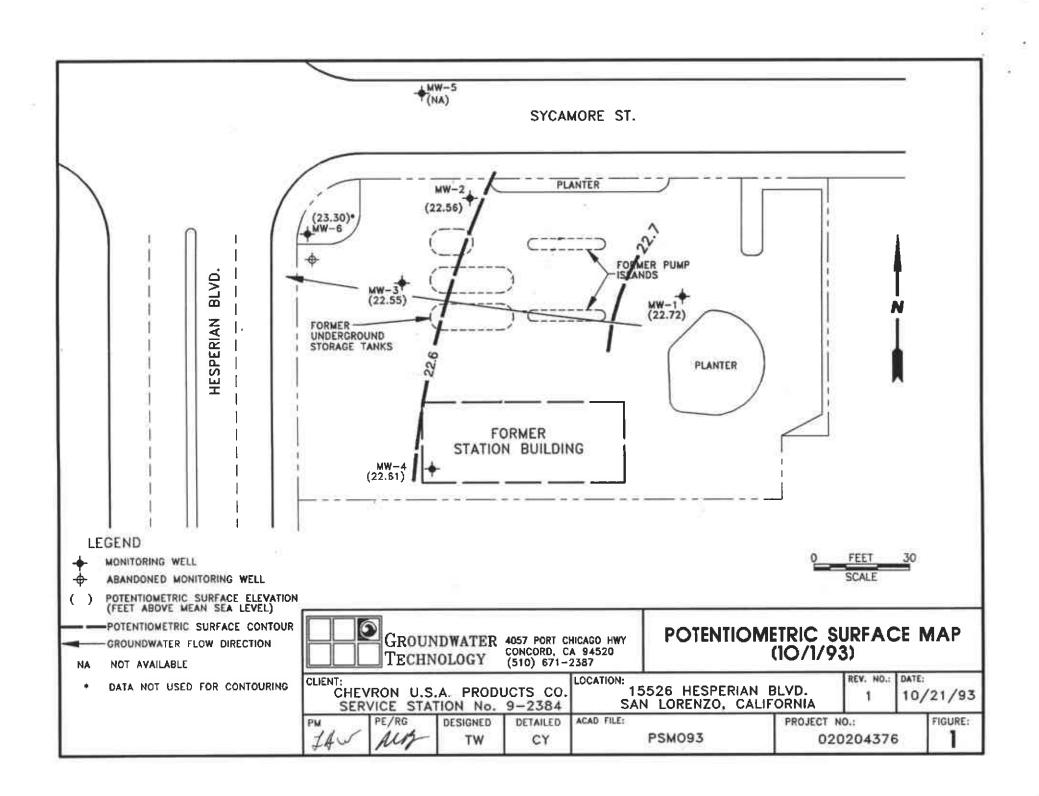
Vice President, General Manager

West Region

4094R023.020

ATTACHMENT 1

Figure



ATTACHMENT 2

Table

TABLE 1 HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA Chevron Service Station No. 9-2384 15526 Hesperian Boulevard, San Lorenzo, California

Well ID/ Elevation	Date	TPH-as- Gasoline	Benzene	Toluene	Ethyl- benzene	Xylenes	DTW (ft)	SPT (ft)	GWE (ft)
MW-1	06/04/92	<50	<0.5	< 0.5	<0.5	< 0.5	13.12	0.00	22.5
	07/30/92						13.82	0.00	21.8
35.64	08/25/92	-			_		14.20	0.00	21.4
- 1	09/23/92	< 50	< 0.5	<0.5	< 0.5	< 0.5	14.59	0.00	21.0
- 1	12/29/92	<50	< 0.5	< 0.5	< 0.5	< 0.5	14.28	0.00	21.3
	03/19/93	<50	< 0.5	< 0.5	< 0.5	<1.5	10.90	0.00	24.7
35.65	07/02/93	<50	< 0.5	< 0.5	< 0.5	< 1.5	11.41	0.00	24.2
- 1	09/22/93	<50	0.9	0.9	< 0.5	< 1.5	12.77	0.00	22.8
	10/01/93						12.93	0.00	22.7
MW-2	06/04/92	6,700	910	17	210	30	13.48	0.00	22.7
	07/30/92						14.17	0.00	21.6
35.85	08/25/92	= 1	-				14.56	0.00	21.2
- 1	09/23/92	1,500	110	1.2	81	< 0.5	14.95	0.00	20.9
	12/29/92	1,200	51	1.1	27	< 0.5	14.61	0.00	21.2
- 1	03/19/93	750	37	1.0	34	1.6	11.24	0.00	24.6
35.86	07/02/93	2,100	45	1.4	87	4.8	11.76	0.00	24.1
- 1	09/22/93	880	23	2.8	38	< 1.5	13.12	0.00	22.7
	10/01/93				-		13.30	0.00	22.5
MW-3	06/04/92	460	12	8.0	5.8	14	13.12	0.00	22.3
	07/30/92		-	_		-	13.81	0.00	21.6
35.42	08/25/92				_		14.20	0.00	21.2
- 1	09/23/92	1,100	62	1.5	110	4.0	14.58	0.00	20.8
- 1	12/29/92	450	21	0.7	12	3.0	14.22	0.00	21.2
- 1	03/19/93	1,200	67	1.3	96	5.5	10.87	0.00	24.5
35.43	07/02/93	610	73	0.5	42	<1.5	11.37	0.00	24.0
	09/22/93	400	< 0.5	0.6	2.7	<1.5	12.71	0.00	22.7
	10/04/93	- 100					12.88	0.00	22.5
MW-4	07/02/93	80	< 0.5	0.6	<0.5	<1.5	11.77	0.00	23.9
	09/22/93		-		_				
35.73	10/01/93	<50	< 0.5	< 0.5	< 0.5	<0.5	13.12	0.00	22.6

GROUNDWATER TECHNOLOGY

Page 1 of 2

TABLE 1 HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA Chevron Service Station No. 9-2384 15526 Hesperian Boulevard, San Lorenzo, California

Well ID/ Elevation	Date	TPH-as- Gasoline	Benzene	Toluene	Ethyl- benzene	Xylenes	DTW (ft)	SPT (ft)	GWE (ft)
MW-5	07/02/93	< 50	<0.5	< 0.5	< 0.5	<1.5	11.42	0.00	24.08
	09/22/93		-		–	-			
35.50	10/01/93						-		
MW-6	07/02/93	14,000	330	28	980	580	12.07	0.00	23.94
	09/22/93	-	_			_			-
36.01	10/01/93	< 50	< 0.5	< 0.5	<0.5	<0.5	12.71	0.00	23.30
Trip	06/04/92	< 50	<0.5	< 0.5	< 0.5	< 0.5			_
Blank	09/23/92	< 50	< 0.5	< 0.5	< 0.5	< 0.5			l –
	12/29/92	<50	<0.5	< 0.5	<0.5	<0.5	- 1		
	03/19/93	< 50	<0.5	< 0.5	<0.5	<1.5	- 1	[
	07/02/93	<50	< 0.5	< 0.5	<0.5	<1.5		-	
	09/22/93	<50	<0.5	< 0.5	< 0.5	<1.5	_		
- 1	10/01/93	<50	< 0.5	< 0.5	< 0.5	< 0.5			

All elevations are given as feet above mean sea level. Concentrations shown in parts per billion.

TPH = Total petroleum hydrocarbons

DTW = Depth to water

SPT = Separate-phase hydrocarbon thickness

GWE = Groundwater elevation in feet above mean sea level

-- = Not applicable, not sampled, not measured

GROUNDWATER TECHNOLOGY

ATTACHMENT 3

Laboratory Report

4094R023.020





Superior Precision Analytical, Inc.

1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

Groundwater Technology Inc. Attn: NICOLE MERCHANT

Project 02020 4094 Reported 10/04/93

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
14780- 1	TB-LB	09/22/93	09/30/93 Water
14780- 2	MW1	09/22/93	09/30/93 Water
14780- 3	MW3	09/22/93	10/01/93 Water
14780- 4	MW2	09/22/93	09/30/93 Water

RESULTS OF ANALYSIS

Laboratory Number: 14780-1 14780-2 14780-3 14780-4

Gasoline: Benzene: Toluene: Ethyl Benzene:	ND<50 ND<0.5 ND<0.5 ND<0.5	ND<50 0.9 0.9 ND<0.5	400 ND<0.5 0.6 2.7	880 23 2.8 38
Xylenes:	ND<1.5	ND<1.5	ND<1.5	ND<1.5
Concentration:	ug/L	ug/L	ug/L	ug/L

1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2 QA/QC INFORMATION SET: 14780

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: Benzene: Toluene: Ethyl Benzene: Xylenes:	90/94	4%	72-116
	96/98	2%	71-106
	92/95	3%	69-116
	92/96	4%	66-121
	89/92	3%	67-108

Certified Laboratories

Senior Chemist Account Manager

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Chevron U.S P.O. BOX San Ramon, FAX (415)84	S.A. Inc. 5004 CA 94583	Cons Cons	Facili Facili ultent Pr	ty Address oject Num oject Num oject Num oject Num oject Num oject (N	nber oundw	9-23 526 H 020 ater Tech hicago Hv	20 Connolog	ria 109 y, Incorr	n 9 U d, ca	31v0	20	_ 0	hevron aborator aborator	y Name y Relea Collecte Date	e Numb	(MC Su	urk 42- 58-	14. 81. 3-6	16 34 26	r
			100										Analys	e To B	e Perfor	med		-		_	TR-IB
Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charsool	Type G = Grab C = Composite D = Discrete	Тте	Sample Procervation	Iced (Yes or No)	8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Holocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd.Cr.Pb,Zn,Ni (ICAP or AN)	Hold					TB-LB Do Not Bul Remarks
TB-1B		20	W	G	Ф	HCL	Yes	X										0			
RBHWT		0	1	-		1										*					
MWI		30	\top	\vdash	10:50			X													
RB MW3		0		\vdash	1000											*					
HW3		30	\top		11:00			X													
RBMWS		0			1100											*					
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Superior Precision Analytical, Inc.

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

GROUNDWATER TECHNOLOGY, Attn: Nicole Merchant

INC.

Project 9-2384 Reported 10/08/93

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
90155- 1	TB-LB	10/01/93	10/07/93 Water
90155- 2	MW-4	10/01/93	10/08/93 Water
90155- 3	MW-6	10/01/93	10/07/93 Water

RESULTS OF ANALYSIS

Laboratory Number: 90155-1 90155-2 90155-3

Gasoline: Benzene: Toluene: Ethyl Benzene: Total Xylenes:	ND<50	ND<50	ND<50
	ND<0.5	ND<0.5	ND<0.5
Concentration:	ug/L	ug/L	ug/L

Page 1 of 2

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

CERTIFICATE O F ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2 QA/QC INFORMATION 90155

NA = ANALYSIS NOT REQUESTED

ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT

ug/L = parts per billion (ppb)

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:	100/100	0%	70-130
Benzene:	102/100	28	70-130
Toluene:	103/102	1%	70-130
Ethyl Benzene:	104/102	28	70-130
Total Xylenes:	94/92	2%	70-130

Senior Chemist

40155 ☐ Yes Chain-of-Custody-Record Fax copy of Lab Report and COC to Chevron Contact: □ No MARK MILLER 9.2384 Chevron Contact (Name) ___ Chevron Focility Number ____ Foolily Address 15526 Hespevisin Boulewid Sunbires 842 -8134 Chevron U.S.A. Inc. Consultant Project Number 02020 409 4 Superior Laboratory Name ___ P.O. BOX 5004 Consultant Name__GTI 583-2660 Laboratory Release Humber____ San Ramon, CA 94583 Address 4057 But Chicago Hyway, Conco-of Clayton Gonzaks Samples Collected by (Name)_ FAX (415)842-9591 Project Contact (Name) Nicole Werchant Collection Date 10-1-97 Signature Clarkon Danielas (Phone) 671-2387 (Fax Number) 685-9148 NOTE : Analyses To Be Performed DO NOT BILL Purpeable Halocarbons (8010)
Purpeable Aromatics (8020)
Purpeable Organics (8240)
Extractable Organics (8270) TB-LB SAMPLES BTEX + TPH CAS (8020 + 8015) 11 111 000 Remarks w balars on 4+6 TB-LB HCL mw-4 1:10 0 Not simpled MW-5 1:50 MW-6 RBMW-4 0 0 RBMW-5 0BMW-6 VO! Relinquished By (Signature) Organization Date/Time Received By (Signature) Date/Time Organization -Turn Around Time (Circle Cholee) 10-1-93 4:11 AEKOdelive C Gowan Arrydos xockel Sanda 24 Hre. Rejirquished By (Simpture) Organization Dote/Time Received By (Signature) Date/Time Organization 48 Hrs. 10-1-93 4:20 FPO Krokel Anuto 5 Days 10 Doys Relingulated By (Signature) Organization Resleved For Laboratory By (Signature) Date/Ilme As Contracted of w lower