



Chevron U.S.A. Products Company

2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500
Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

Operations

February 27, 1993

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

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

Dear Ms. Shin:

Enclosed is the Ground Water Monitoring and Sampling Activities report dated January 19, 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 only in monitor wells MW-2 and MW-3 at concentrations of 51 ppb and 21 ppb, respectively. Depth to groundwater was measured at approximately 14.2 ft. to 14.6 ft. below grade and the direction of flow is to the west.

Chevron will continue to monitor and sample all wells on a quarterly basis. We will instruct our consultant to permit and install additional ground water monitor wells to delineate the extent of hydrocarbon impacts to ground water. A work plan will be prepared proposing the additional assessment work and forwarded to your office for your review and formal concurrence within 60 days.

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

Very truly yours,
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 QM2)

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

JAN 25 '93 J.M.M.



GROUNDWATER TECHNOLOGY, INC.

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

FAX: (415) 685-9148

January 19, 1993

Project No. 020203215

Mr. Mark Miller
Chevron U.S.A. Products Company, Inc.
P.O. Box 5004
San Ramon, CA 94583-0804

**SUBJECT: GROUNDWATER MONITORING AND SAMPLING ACTIVITIES
CHEVRON SERVICE STATION NO. 9-2384
15526 HESPERIAN BLVD, SAN LORENZO, CALIFORNIA**

Dear Mr. Miller:


Groundwater Technology, Inc. presents the attached groundwater monitoring and sampling data collected on December 29, 1992. The three groundwater monitoring wells at this site were gauged to determine 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 A and B, respectively. After measuring the DTW, each monitoring well was purged and sampled. The groundwater samples were analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), and total petroleum hydrocarbons (TPH)-as-gasoline. Results of the chemical analyses are summarized in Table 1. Laboratory report and chain-of-custody record are included in Attachment C. Monitoring well purge water was removed by Groundwater Technology and transported to the Chevron terminal in Richmond, California for recycling.

Groundwater Technology, Inc. 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

Groundwater Technology, Inc.
Reviewed/Approved by

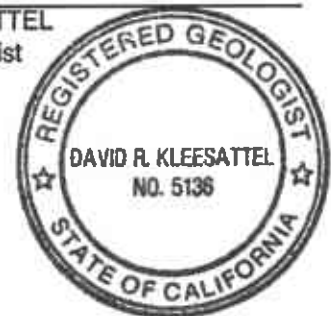

SANDRA L. LINDSEY
Project Manager


DAVID R. KLEESATTEL
Registered Geologist
No. 5136

Attachments: Attachment A - Figure 1
Attachment B - Table 1
Attachment C - Laboratory Report

For:
John Gaines
General Manager
West Region

LR3215A2.NM



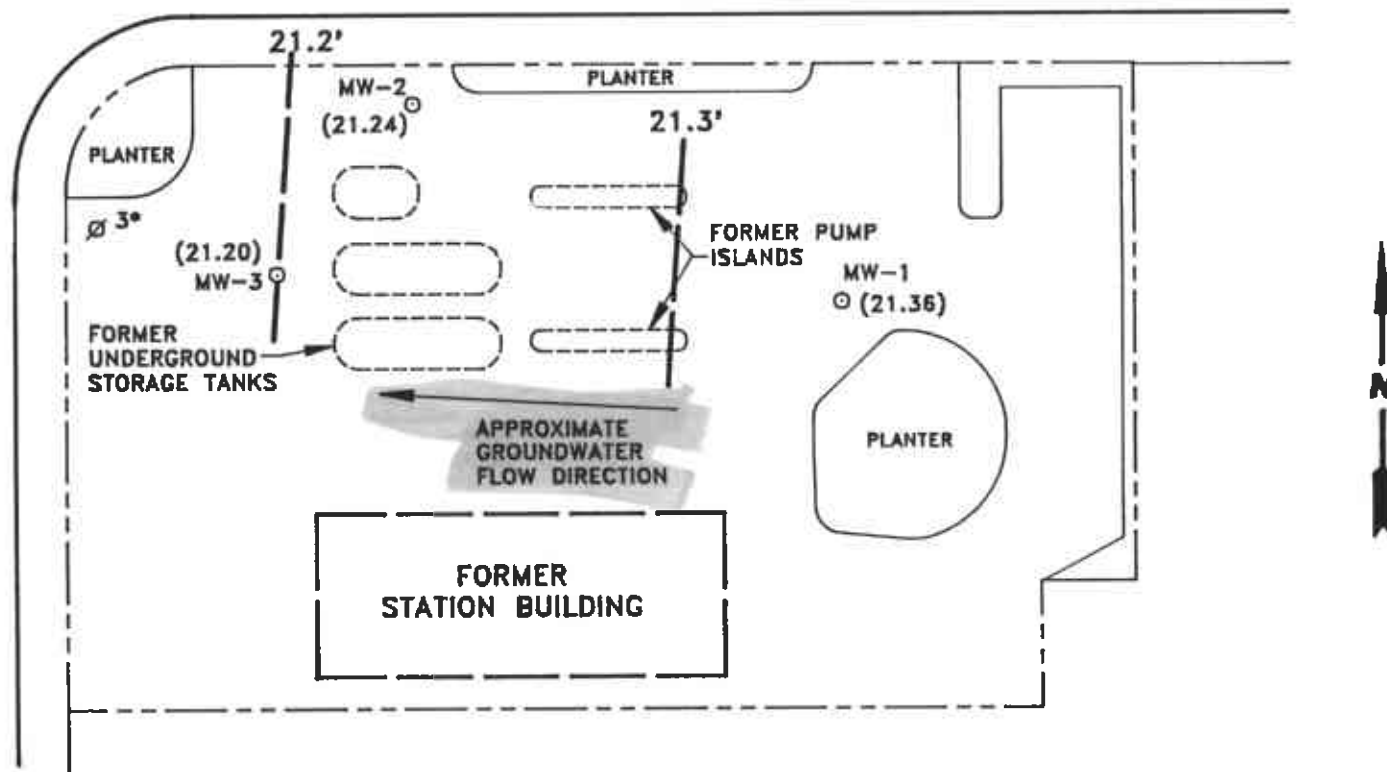
ATTACHMENT A

FIGURE



SYCAMORE ST.

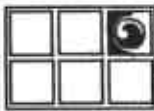
HESPERIAN BLVD.



LEGEND

- MONITORING WELL
- ∅ 3" ABANDONED MONITORING WELL (FORMER LOCATION OF MW-3)
- () POTENTIOMETRIC SURFACE ELEVATION
- - - POTENTIOMETRIC SURFACE CONTOUR



 GROUNDWATER TECHNOLOGY				4057 PORT CHICAGO HWY CONCORD, CA 94520 (510) 671-2387		POTENTIOMETRIC SURFACE MAP (12/29/92)			
CLIENT: CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION No. 9-2384				LOCATION: 15526 HESPERIAN BLVD. SAN LORENZO, CALIFORNIA		REV. NO.: 0	DATE: 1/15/93		
PM <i>JAW</i>	PE/RG ORK	DESIGNED TW	DETAILED ML	ACAD FILE: PSMD2992/SP692		PROJECT NO.: 020202746		FIGURE: 1	

ATTACHMENT B

TABLE

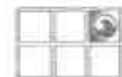


TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
CHEVRON SERVICE STATION NO. 9-2384
15526 HESPERIAN BLVD, SAN LORENZO, CALIFORNIA

WELL ID/ ELEVATION	DATE	TPH-AS- GASOLINE	BENZENE	TOLUENE	ETHYL- BENZENE	XYLENES	DTW (ft.)	SPT (ft.)	GWE (ft.)
MW-1 35.64	06/04/92	<50	<0.5	<0.5	<0.5	<0.5	13.12	0.0	22.52
	07/30/92	--	--	--	--	--	13.82	0.0	21.82
	08/25/92	--	--	--	--	--	14.20	0.0	21.44
	09/23/92	<50	<0.5	<0.5	<0.5	<0.5	14.59	0.0	21.05
	12/29/92	<50	<0.5	<0.5	<0.5	<0.5	14.28	0.0	21.36
MW-2 35.85	06/04/92	6,700	910	17	210	30	13.48	0.0	22.73
	07/30/92	--	--	--	--	--	14.17	0.0	21.68
	08/25/92	--	--	--	--	--	14.56	0.0	21.29
	09/23/92	1,500	110	1.2	81	<0.5	14.95	0.0	20.90
	12/29/92	1,200	51	1.1	27	<0.5	14.61	0.0	21.24
MW-3 35.42	06/04/92	460	12	0.8	5.8	14	13.12	0.0	22.30
	07/30/92	--	--	--	--	--	13.81	0.0	21.61
	08/25/92	--	--	--	--	--	14.20	0.0	21.22
	09/23/92	1,100	62	1.5	110	4.0	14.58	0.0	20.84
	12/29/92	450	21	0.7	12	3.0	14.22	0.0	21.20
TRIP BLANK	06/04/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	09/23/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	12/29/92	<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.

DTW = Depth to water
SPT = Separate-phase hydrocarbon thickness
GWE = Groundwater elevation in feet above mean sea level
-- = Not applicable, not sampled, not measured

ATTACHMENT C
LABORATORY REPORT



Superior Precision Analytical, Inc.

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

Groundwater Technology Inc.
Attn: Sandra Lindsey

Project 020203215.061004
Reported 01/05/93

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
13957- 1	TB-LB	12/29/92	01/04/93 Water
13957- 2	RBMW-1	12/29/92	01/04/93 Water
13957- 3	MW-1	12/29/92	01/04/93 Water
13957- 5	MW-2	12/29/92	01/04/93 Water
13957- 7	MW-3	12/29/92	01/04/93 Water

RESULTS OF ANALYSIS

Laboratory Number: 13957- 1 13957- 2 13957- 3 13957- 5 13957- 7

Gasoline:	ND<50	ND<50	ND<50	1200	450
Benzene:	ND<0.5	ND<0.5	ND<0.5	51	21
Toluene:	ND<0.5	ND<0.5	ND<0.5	1.1	0.7
Ethyl Benzene:	ND<0.5	ND<0.5	ND<0.5	27	12
Xylenes:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.0
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L



C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2
QA/QC INFORMATION
SET: 13957

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:	91/91	0%	76-111
Benzene:	100/94	6%	78-110
Toluene:	93/87	7%	78-111
Ethyl Benzene:	92/86	7%	78-118
Xylenes:	91/86	6%	73-113

Richard Srna, Ph.D.

Richard Srna (for)
Laboratory Director

Fax copy of Lab Report and COC to Chevron Contact: Yes No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 9-2384
Facility Address 15526 Hesperian Blvd, San Lorenzo
Consultant Project Number 020203215.061004
Consultant Name Groundwater Technology, Inc.
Address 4057 Port Chicago Hwy, Concord, CA 94520
Project Contact (Name) Ms. Sandra L. Lindsey
(Phone) 671-2387 (Fax Number) 685-9148

Chevron Contact (Name) Mark Miller
(Phone) 510-842-8134
Laboratory Name Superior Analytical
Laboratory Release Number 583-2660
Samples Collected by (Name) Greg MASON
Collection Date 12-29-92
Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Chevron	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed										Remarks				
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Hydrocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)	FOIA						
TBLB		1	W			Y		X														
RBMW-1		1						X														
MW-1		2						X														
RBMW-2		1						X														
MW-2		2						X														
RBMW-3		1						X														
MW-3		2						X														

Please Initial:
 Samples Stored in Ico
 Appropriate containers
 Samples preserved
 VOA's without hood/pape
 Comments:
 [Signature]

Rec'd 12/31/92
[Signature]

Relinquished By (Signature) [Signature]	Organization GTI	Date/Time 12/30	Received By (Signature)	Organization	Date/Time	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) K. Carlson		Date/Time 12-30-92 9:10	

COC-1096/03 8/1/92