APR 11 '94 J.M.M.

GROUNDWATER TECHNOLOGY, INC.

4057 Port Chicago Highway, Concord, CA 94520 (415) 671-2387
FAX: (415) 685-9148

April 4, 1994

Project No. 020105494

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

SUBJECT: *Groundwater Monitoring and Sampling Activities*
Chevron Service Station No. 9-1723
9757 San Leandro St., Oakland, California

Dear Mr. Kan:

Groundwater Technology, Inc. presents the attached quarterly groundwater monitoring and sampling data collected on February 10, 1994. 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. Seperate-phase hydrocarbons were not detected in the monitoring wells. A potentiometric surface map and a summary of groundwater monitoring data are presented in Attachments 1 and 2, respectively. After the DTW was measured, the monitoring wells were purged and sampled. Field data sheets are presented in Attachment 3. 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 4. 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 Manager

PR KS

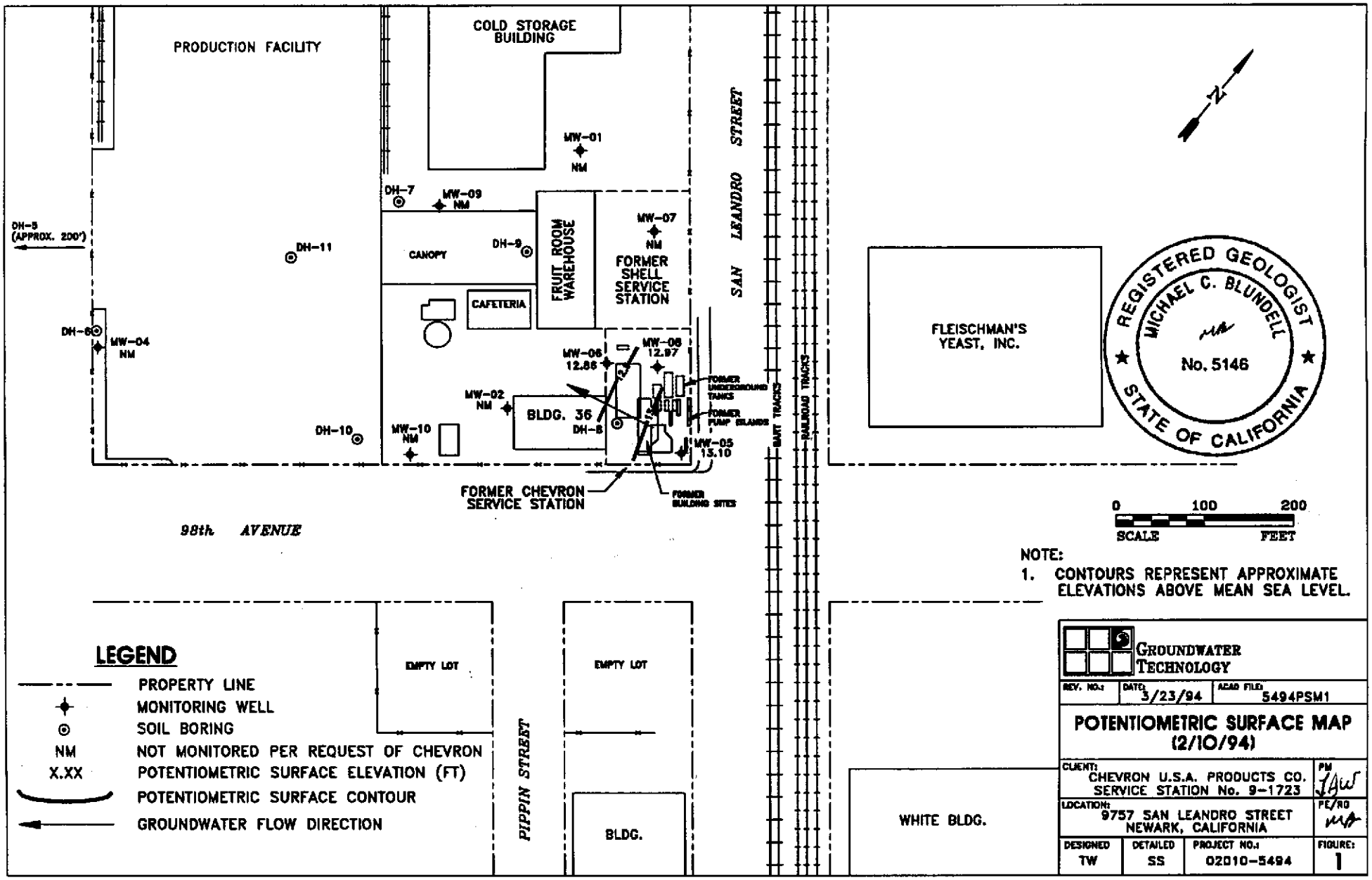
Attachment 1 Figure
Attachment 2 Table
Attachment 3 Field Data Sheets
Attachment 4 Laboratory Report

For:
Wendell W. Lattz
Vice President, General Manager
West Region

5594QMSR.194

ATTACHMENT 1

Figure



GROUNDWATER TECHNOLOGY

REV. NO.:	DATE: 3/23/94	ACAD FILE: 5494PSM1

POTENTIOMETRIC SURFACE MAP (2/10/94)

CLIENT: CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION No. 9-1723

PM: JAW

LOCATION: 9757 SAN LEANDRO STREET NEWARK, CALIFORNIA

PE/RG: MA

DESIGNED	DETAILED	PROJECT NO.:	FIGURE:
TW	SS	02010-5494	1

ATTACHMENT 2

Table

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-1723
9757 San Leandro St., Oakland, California

ppb

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl-benzene	Xylenes	Lead	DTW (ft)	SPT (ft)	WTE (ft)
MW-1 20.92	11/02/93 02/10/94	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	10.24 ---	0.00 ---	10.68 ---
MW-2 21.31	11/02/93 02/10/93	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	10.48 ---	0.00 ---	10.83 ---
MW-4 ---	11/02/93 02/10/93	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	10.23 ---	0.00 ---	--- ---
MW-5 21.84	11/02/93 02/10/94	790 1,400	43 52	3.4 3	22 50	12 40	<400 ---	10.69 8.74	0.00 0.00	11.15 13.10
MW-6 21.71	11/02/93 02/10/94	300 280	19 10	1.8 0.9	2.5 2	5.0 4	<400 ---	10.78 8.85	0.00 0.00	10.93 12.86
MW-7 20.95	11/02/93 02/10/94	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	10.07 ---	0.00 ---	10.88 ---
MW-8 21.84	11/02/93 02/10/94	15,000 6,500	2,000 1,200	440 380	420 250	1,400 7,900	--- ---	10.82 8.87	0.00 0.00	11.02 12.97
MW-9 20.55	11/02/93 02/10/94	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	10.02 ---	0.00 ---	10.53 ---
MW-10 21.25	11/02/93 02/10/94	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	10.32 ---	0.00 ---	10.93 ---

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-1723
9757 San Leandro St., Oakland, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl-benzene	Xylenes	Lead	DTW (ft)	SPT (ft)	WTE (ft)
Rinsate	02/10/94	<50	<0.5	0.5	<0.5	<0.5		---	---	---
TBLB	02/10/94	<50	<0.5	<0.5	<0.5	<0.5		---	---	---

TPH-G = Total petroleum hydrocarbons-as-gasoline
DTW = Depth to water
SPT = Separate-phase hydrocarbon thickness
WTE = Water-table elevation
Concentrations are in parts per billion.

ATTACHMENT 3

Field Data Sheets

Project Name: Chevron - San Leandro

Date: 2.10.94

Site Address: 9757 San Leandro St., Oakland

Page 1 of

Project Number: 020105494.0610

Project Manager: Tim Watchers

Well ID: MW-5

Well Diameter: 2"

DTW Measurements:
Initial:
Recharge:

Calc Well Volume: 1.45 gal
Well Volume: 3 4.3 gal

Purge Method
Peristaltic
Gear Drive
Submersible X

Pump Depth ft.
Hand Bailed
Air Lift
Other

Instruments Used
YSI:
Hydac:
Omega: X

Other:

Time	Temp X C F	Conductivity	pH	Purge Volume Gallons	Turbidity	Comments
10:30	9.9	.997	7.22	Ø		Clear
10:31	10.0	.968	7.21	2		"
10:32	10.1	.970	7.21	3		"
1033	10.2	.971	7.21	4		"

Project Name: Chevron - San Leandro

Date: 2·10·94

Site Address: 9757 San Leandro St., Oakland

Page 2 of

Project Number: 020105494.0610

Project Manager: Tim Watchers

Well ID: MW-6

Well Diameter: 2"

DTW Measurements:
Initial: /
Recharge:

Calc Well Volume: 18 gal
Well Volume: 3 55 gal

Purge Method
Peristaltic
Gear Drive
Submersible X

Pump Depth ft.
Hand Bailed
Air Lift
Other

Instruments Used
YSI:
Hydac:
Omega: X
Other:

Time	Temp C / F	Conductivity	pH	Purge Volume Gallons	Turbidity	Comments
10:50	13.8	1.06	7.19	0		Clear
10:51	13.8	1.06	7.19	2		4
10:52	13.9	1.06	7.19	4		4
10:53	13.9	1.05	7.18	5		4

Project Name: Chevron - San Leandro

Date: 2.10.94

Site Address: 9757 San Leandro St, Oakland

Page 3 of

Project Number: 020105494.0610

Project Manager: Tim Watchers

Well ID: MW-8

Well Diameter: 2"

DTW Measurements:
Initial: /
Recharge: /

Calc Well Volume: 1.61 gal
Well Volume: 3 4.8 gal

Purge Method
Peristaltic
Gear Drive
Submersible X

Pump Depth ft.
Hand Bailed
Air Lift
Other

Instruments Used
YSI:
Hydac:
Omega: X

Other:

Time	Temp X C / F	Conductivity	pH	Purge Volume Gallons	Turbidity	Comments
10:56	14.9	1.01	7.19	0		Clear
10:57	14.9	1.02	7.19	2		"
10:58	15.0	1.04	7.19	4		"
10:59	15.0	1.06	7.18	5		"

ATTACHMENT 4

Laboratory Report

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

4080 Pike Lane
Concord, CA 94520
(510) 685-7852
(800) 544-3422 Inside CA
(800) 423-7143 Outside CA
(510) 825-0720 FAX

Client Number: 020105494
Consultant Project Number: 020105494
Facility Number: 9-1723
Project ID: 9757 San Leandro St. Oakland
Work Order Number: C4-02-0199

February 16, 1994

Tim Watchers
Groundwater Technology, Inc.
4057 Port Chicago Hwy.
Concord, CA 94520

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 02/11/94.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,

GTEL Environmental Laboratories, Inc.

Bill Svoboda
for

Rashmi Shah
Laboratory Director

Client Number: 020105494
Consultant Project Number: 020105494
Facility Number: 9-1723
Project ID: 9757 San Leandro St. Oakland
Work Order Number: C4-02-0199

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and

Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015[a]

GTEL Sample Number		01	03	04	05
Client Identification		TB-LB	MW-5	RBMW6	MW-6
Date Sampled		02/10/94	02/10/94	02/10/94	02/10/94
Date Analyzed		02/11/94	02/12/94	02/15/94	02/15/94
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	52	<0.5	10
Toluene	0.5	<0.5	3	0.5	0.9
Ethylbenzene	0.5	<0.5	50	<0.5	2
Xylene, total	0.5	<0.5	40	<0.5	4
TPH as Gasoline	50	<50	1400	<50	200
Detection Limit Multiplier		1	1	1	1
BFB surrogate, % recovery		80.9	100	102	89.1

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual procedures. Bromofluorobenzene surrogate recovery acceptability limits are 70-130%.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: 020105494
Consultant Project Number: 020105494
Facility Number: 9-1723
Project ID: 9757 San Leandro St. Oakland
Work Order Number: C4-02-0199

Table 1 (continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and

Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015[a]

GTEL Sample Number		07	Z021394		
Client Identification		MW8	METHOD BLANK		
Date Sampled		02/10/94	--		
Date Analyzed		02/15/94	02/13/94		
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	1200	<0.5		
Toluene	0.5	380	<0.5		
Ethylbenzene	0.5	250	<0.5		
Xylene, total	0.5	7900	<0.5		
TPH as Gasoline	50	6500	<50		
Detection Limit Multiplier		10	1		
BFB surrogate, % recovery		106	81.9		

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual procedures. Bromofluorobenzene surrogate recovery acceptability limits are 70-130%.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: 020105494
Consultant Project Number: 020105494
Facility Number: 9-1723
Project ID: 9757 San Leandro St. Oakland
Work Order Number: C4-02-0199

QC Matrix Spike and Duplicate Spike Results

Matrix: Water

Analyte	Sample ID	Spike Amount	Units	Recovery, %	Duplicate Recovery, %	RPD, %	Control Limits
Modified EPA 8020:							
Benzene	C4020196-02	20.0	ug/L	91.5	93.0	1.4	57.3 - 138
Toluene	C4020196-02	20.0	ug/L	90.5	91.0	0.6	63.0 - 134
Ethylbenzene	C4020196-02	20.0	ug/L	95.5	96.0	0.5	59.3 - 137
Xylene, total	C4020196-02	60.0	ug/L	98.2	98.2	0	59.3 - 144

GTEL ENVIRONMENTAL LABORATORIES, INC.

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: -1723
Facility Address: 9757 San Leandro St. Oakland
Consultant Project Number: 020105494
Consultant Name: Groundwater Technology, Inc.
Address: 4057 Port Chicago Hwy, Concord, CA. 94520
Project Contact (Name): Tim Watchers
(Phone) 510-671-2387 (Fax Number)

Chevron Contact (Name): Ken Kan
(Phone) 510/842-8752
Laboratory Name: GTEL
Laboratory Release Number: 741-580
Samples Collected by (Name): MARK GARCIA
Collection Date: 2.10.94
Signature: Mark Garcia

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)				HOLD	Remarks
TB-LB	01	2	W		1125	HCl	Y	X												NOTE: DO NOT BILL TB-LB SAMPLES 3°
RBMW-5	02	1	↓		1130	↓	↓	X												
MW5	03	3			1130			X												
RBMW-6	04	1			1135			/											Y	
RBMW-6	05	3			1135			X												
RBMW-8	06	1			1100														X	
MW-8	07	3	↓		1140	↓	↓	X												

CA020199

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Mark Garcia	GTI	2.10.94	Clayton Doyle	GTI	2-11-94
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Clayton Doyle	GTI	2-11-94 1200	John Weber	GTEL	2-11-94 1200
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
John Weber	GTEL	2-11-94 1700	Ramona C. Jensen		2/11/94 17:00

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted