



Chevron U.S.A. Inc.

2410 Camino Ramon, San Ramon, California • Phone (415) 842-9500
Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

Marketing Operations

December 1, 1989

D. Moller
Manager, Operations
S. L. Patterson
Area Manager, Operations
C. G. Trimbach
Manager, Engineering

Mr. Rick Mueller
City of Pleasanton
Fire Department
P.O. Box 520
Pleasanton, CA 94566

Re: Former Chevron Facility #9-0917
5280 Hopyard Road
Pleasanton, California

Dear Mr. Mueller:

Enclosed we are forwarding the October quarterly groundwater sampling results for the reference site conducted by our consultant Groundwater Technology, Inc. As indicated in this report and the previous quarters sampling, a very low level of hydrocarbon is present in one of three monitoring wells.

Chevron will continue quarterly groundwater monitoring of this site. If you have any questions or comments, please contact John Randall at (415) 842-9625.

I declare under penalty of perjury that the information contained in the attached report is true and correct, and that any recommended actions are appropriate under the circumstances, to the best of my knowledge.

Sincerely,

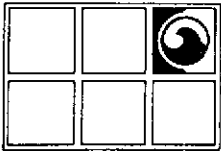
C.G. Trimbach

By 
John Randall, Engineer

JMR:vas:Q5-023
Enclosure

cc: Regional Water Quality Control Board
1111 Jackson Street, Room 6040
Oakland, CA 94607

Alameda County Environmental Health ✓
Attn: Rafat Shahid
80 Swan Way, Room 200
Oakland, CA 94621



GROUNDWATER TECHNOLOGY, INC.

4080-D Pike Lane, Concord, CA 94520

(415) 671-2387

November 22, 1989

Job No. 203 175 3284.01

Mr. John Randall
Chevron U.S.A. Inc.
2410 Camino Ramon
Bishop Ranch #6
San Ramon, CA 94583

NOV 20 1989 H.C.H.

Re: Quarterly Well Monitoring and Sampling
Chevron Service Station No. 9-0917
5280 Hopyard Road, Pleasanton, California

Dear Mr. Randall:

This letter report summarizes the results and findings of the ongoing quarterly groundwater monitoring and sampling program conducted by Groundwater Technology, Inc. (GTI) at Chevron Service Station No. 9-0917 located at 5280 Hopyard Road in Pleasanton, California. This report covers the first quarterly monitoring and sampling of the three on-site monitoring wells conducted on October 24, 1989. The locations of the on-site monitoring wells are shown on the attached Site Plan (Figure 1).

The wells were monitored on October 24, 1989 using an ORS Environmental Equipment (ORS) Interface Probe to determine depth-to-groundwater and to check for the presence of phase-separated floating hydrocarbons. No floating hydrocarbons were detected. The monitoring data are presented on the attached Water/Product Level Data Sheets.

Following monitoring on October 24, 1989, the wells were purged by hand-bailing to allow for the collection of representative groundwater samples. Attached is a copy of GTI Standard

Operating Procedure (SOP) 9, which describes the GTI procedure for well sampling. Between 15 and 23 gallons of water were removed from each well. This purged water was collected in two 55-gallon steel drums. These drums are stored on site pending proper disposal of the water.

After allowing the wells to recover to at least 80 percent of the original levels as measured before purging, groundwater samples were collected in accordance with attached GTI SOPs 9, 10, and 12. The samples were placed in 40-milliliter glass vials, acidified to a pH below 2, and the vials sealed with Teflon^R septum caps. Each sample was labeled and placed on ice in an insulated cooler for transportation to the GTEL Environmental Laboratories, Inc. (GTEL) facility in Concord, California for analyses. The analyses were performed in accordance with the guidelines requested by Chevron with regards to detection limits and documentation. Proper Chain-of-Custody Manifest documentation, as described in GTI SOP 11 was maintained. A copy of the Chain-of-Custody Manifest is attached.

The results of the laboratory analyses indicate the presence of measurable concentrations of benzene, toluene, ethylbenzene and xylenes (BTEX) compounds in only one sample. No total petroleum hydrocarbons (TPH)-as-gasoline were detected with a 500 parts per billion (ppb) detection limit. One ppb benzene and 13 ppb ethylbenzene were detected in monitoring well MW-1. These analytical findings are relatively consistent with the results of the preliminary sampling conducted July 17, 1989 after installation of the wells. Table 1 presents the latest analyses results along with the results from the previous analyses for comparison.

TABLE 1
WATER SAMPLE ANALYTICAL RESULTS
(parts per billion)

Well	Date	Benzene	Toluene	Ethyl-Benzene	Xylenes	Total BTEX	TPH-as-Gasoline
MW-1	07/17/89	ND	ND	6	ND	6	100
	10/24/89	1	ND	13	ND	14	ND
MW-2	07/17/89	ND	ND	ND	ND	ND	ND
	10/24/89	ND	ND	ND	ND	ND	ND
MW-3	07/17/89	ND	ND	ND	ND	ND	ND
	10/24/89	ND	ND	ND	ND	ND	ND

ND = Compound not detected at Method Detection Limits
Detection Limits = For 07/17/89 Analysis, 0.5 ppb for BTEX,
1 ppb for TPH-as-gasoline. For 10/24/89 Analysis, 0.3 ppb for
BTEX, 500 ppb for TPH-as-gasoline.

Water table elevation data collected on October 24, 1989 was combined with survey wellhead-elevation data to produce groundwater-table elevation information. This information was used to produce Figure 2, a groundwater gradient map. Figure 2 also shows the concentrations of dissolved total BTEX observed in each well.

A copy of this report should be submitted to:

Pleasanton Fire Department
4444 Railroad Street
Pleasanton, CA 94566
Attn: Rick Muller

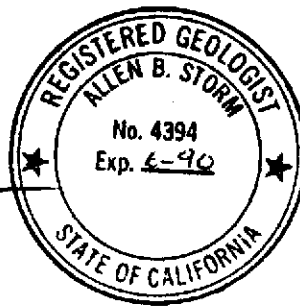
Mr. John Randall
November 22, 1989
Page 4

The next round of sampling for this site is scheduled for January of 1990. If you have any questions or require additional information on the content of this report, please contact our Concord office at (415) 671-2387.

Sincerely,
GROUNDWATER TECHNOLOGY, INC.

Paul D. Horton for
Glen L. Mitchell
Project Geologist

Allen B. Storm
Allen B. Storm
Registered Geologist
No. 4394



Attachments

GLM:ABS:lf
LR3284C

WATER/PRODUCT LEVEL DATA

Project Location 5280 Hopyard Road, Pleasanton, CA Fluid Measurement Technique Interface Probe

Recorded by Scott Polston

Date 10/24/89

Well No.	Time	(A)	(B)	(C)	(D)	(B)-(D)	(A)-(B-D)	(C)-(D)	See Note * Potentiometric Surface Elevation (feet)	Comments
		Casing Rim Elevation (feet)	Tape Reading At Rim	Tape Reading At Product	Tape Reading At Water	Depth to Water (feet)	Water Surface Elevation (feet)	Product Thickness (feet)		
MW-1	11:20	326.48	-	NA	7.51	7.51	318.97	0	318.97	
MW-2	11:25	327.53	-	NA	9.24	9.24	318.29	0	318.29	
MW-3	11:30	326.42	-	NA	7.59	7.59	318.83	0	318.83	

Specific gravity of product (S.G.) NA

* c: Potentiometric Surface Elevation = (A) - ((B)-(D)) + S.G. ((C)-(D))



GTEL

ENVIRONMENTAL
LABORATORIES, INC.

Northwest Region
4080 Pike Lane
Concord, CA 94520
(415) 685-7852
(800) 544-3422 from inside California
(800) 423-7143 from outside California

Project Number: SFB-175-0204.72-60
Contract Number: M46CMC0244-9-X
Facility Number: 9-0917
Work Order Number: C910605
Report Issue Date: October 30, 1989

Glen Mitchell
Groundwater Technology, Inc.
4080 Pike Ln. Suite D
Concord, CA 94520

Dear Mr. Mitchell:

Attached please find the analytical results for the samples received by GTEL on October 25, 1989.

GTEL maintains a formal quality assurance program to ensure the integrity of the analytical results. All quality assurance criteria were achieved during the analysis unless otherwise noted in the footnotes to the analytical report.

The specific analytical methods used and cited in this report are approved by state and federal regulatory agencies. GTEL is certified for the analysis reported herein by the California State Department of Health Services under certificate number 194.

If you have any questions regarding this analysis, or if we may service any additional analytical needs, please give us a call.

Sincerely,

GTEL Environmental Laboratories, Inc.

Emma P. Popek
Laboratory Director

Project Number: SFB-175-0204.72-60
 Contract Number: N46CVC0244-9-X
 Facility Number: 9-0917
 Work Order Number: C910605
 Report Issue Date: October 30, 1989

Table 1

ANALYTICAL RESULTS

Purgeable Aromatics and Total Petroleum Hydrocarbons
 as Gasoline in Water
 EPA Method 8020/8015¹

GTEL Sample Number		01	02	03	04
Client Identification		NW-2	RBMJ-3	NW-3	NW-1
Date Sampled		10/24/89	10/24/89	10/24/89	10/24/89
Date Analyzed		10/25/89	10/25/89	10/25/89	10/25/89
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.3	<0.3	<0.3	<0.3	1
Toluene	0.3	<0.3	<0.3	<0.3	<0.3
Ethylbenzene	0.3	<0.3	<0.3	<0.3	13
Xylene (total)	0.6	<0.6	<0.6	<0.6	<0.6
TPH as Gasoline	500	<500	<500	<500	<500

1 = Extraction by EPA Method 5030

QA Conformance Summary

**Purgeable Aromatics and Total Petroleum Hydrocarbons
as Gasoline in Water
EPA Method 8020/8015**

1.0 Blanks

Five of 5 target compounds were below detection limits in the reagent blank as shown in Table 2.

2.0 Independent QC Check Sample

The control limits were met for 4 out of 4 QC check compounds as shown in Table 3.

3.0 Surrogate Compound Recoveries

Percent recovery limits were met for the surrogate compound (naphthalene) for all samples as shown in Table 4.

4.0 Matrix Spike (MS) Accuracy

Percent recovery limits were met for 4 of 4 compounds in the MS as shown in Table 5.

5.0 Reagent Water Spike (WS) and Reagent Water Spike (WSD) Duplicate Precision

Relative percent difference (RPD) criteria was met for 4 of 4 analytes in the WS and WSD as shown in Table 6.

6.0 Sample Handling

6.1 Sample handling and holding time criteria were met for all samples.

6.2 There were no exceptional conditions requiring dilution of samples.

Project Number: SFB-175-0204.72-60
Contract Number: N46CUC0244-9-X
Facility Number: 9-0917
Work Order Number: C910605
Report Issue Date: October 30, 1989

Table 2

REAGENT BLANK DATA

Purgeable Aromatics and Total Petroleum Hydrocarbons
as Gasoline in Water
EPA Method 8020/8015

Date of Analysis: 10/25/89

Analyte	Concentration, ug/L
Benzene	<0.3
Toluene	<0.3
Ethylbenzene	<0.3
Xylene (total)	<0.6
Gasoline	<500

Project Number: SFB-175-0204.72-60
 Contract Number: M46CMC0244-9-X
 Facility Number: 9-0917
 Work Order Number: C910605
 Report Issue Date: October 30, 1989

Table 3

INDEPENDENT GC CHECK SAMPLE RESULTS

Purgeable Aromatics and Total Petroleum Hydrocarbons
 as Gasoline in Water
 EPA Method 8020/8015

Date of Analysis: 10/25/89

Analyte	Expected Result, ug/L	Observed Result, ug/L	Recovery, %	Acceptability Limits, %
Benzene	50	48	96	85 - 115
Toluene	50	51	102	85 - 115
Ethylbenzene	50	55	110	85 - 115
Xylene (total)	150	169	113	85 - 115

Table 3a

INDEPENDENT GC CHECK SAMPLE SOURCE

Purgeable Aromatics and Total Petroleum Hydrocarbons
 as Gasoline in Water
 EPA Method 8020/8015

Analyte	Lot Number	Source
Benzene	LA18104	SUPELCO
Toluene	LA18104	SUPELCO
Ethylbenzene	LA18104	SUPELCO
Xylene (total)	LA18104	SUPELCO

Project Number: SFB-175-0204.72-60
Contract Number: N46CWC0244-9-X
Facility Number: 9-0917
Work Order Number: C910605
Report Issue Date: October 30, 1989

Table 4
SURROGATE COMPOUND RECOVERY

Naphthalene

Purgeable Aromatics and Total Petroleum Hydrocarbons
as Gasoline in Water
EPA Method 8020/8015

Acceptability Limits: 80 - 120 %

GTEL No.	Expected Result, ug/L	Surrogate Result, ug/L	Surrogate Recovery, %
Blank	200	200	100
01	200	168	84
02	200	172	86
03	200	193	96
04	200	217	108
MS	200	177	88
WS	200	203	102
WSD	200	224	112

MS = Matrix Spike
WS = Reagent Water Spike
WSD = Reagent Water Spike Duplicate

Project Number: SFB-175-0204-72-60
Contract Number: N46CVC0244-9-X
Facility Number: 9-0917
Work Order Number: C910605
Report Issue Date: October 30, 1989

Table 5

MATRIX SPIKE (MS) RECOVERY REPORT

Purgeable Aromatics and Total Petroleum Hydrocarbons
as Gasoline in Water
EPA Method 8020/8015

Date of Analysis: 10/25/89
Sample Spiked: 01

Client ID: MW-2
Units: ug/L

Analyte	Sample Result	Concentration Added	Concentration Recovered	MS Result	MS, % Recovery	Acceptability Limits, %
Benzene	<0.3	25	21	21	84	80 - 120
Toluene	<0.3	25	21	21	84	80 - 120
Ethylbenzene	<0.3	25	23	23	92	80 - 120
Xylene (total)	<0.6	75	73	73	97	80 - 120

<# = Not detected at the indicated detection limit.

Project Number: SFB-175-0204.72-60
 Contract Number: M46CMC0244-9-X
 Facility Number: 9-0917
 Work Order Number: C910605
 Report Issue Date: October 30, 1989

Table 6

REAGENT WATER SPIKE AND REAGENT WATER SPIKE DUPLICATE
 RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD) REPORT

Purgeable Aromatics and Total Petroleum Hydrocarbons
 as Gasoline in Water
 EPA Method 8020/8015

Date of Analysis: 10/25/89

Units: ug/L

Analyte	Concentration Added	WS Result	WS, % Recovery	WSD Result	WSD, % Recovery
Benzene	25	23	92	23	92
Toluene	25	22	88	22	88
Ethylbenzene	25	23	92	23	92
Xylene (total)	75	75	100	74	99

Analyte	RPD, %	Acceptability Limits	
		Maximum RPD, %	% Recovery
Benzene	0	30	80-120
Toluene	0	30	80-120
Ethylbenzene	0	30	80-120
Xylene (total)	1	30	80-120

SFB 175.0204.72- (2)

0910605

Chain-of-Custody Record

Chevron U.S.A. Inc. P.O. Box 5004 San Ramon, CA 94583 FAX (415) 842-9591	Chevron Facility Number <u>9-0917</u>	Chevron Contact (Name) <u>John Randall</u>
	Consultant Release Number <u>247-3350</u> Consultant Project Number <u>203-175-3284-01</u>	(Phone) <u>(415) 842-9625</u>
	Consultant Name <u>GROUNDWATER TECH INC</u>	Laboratory Name <u>6 TEL</u>
	Address <u>4080-D Pike Ln Concord CA 94520</u>	Contract Number _____
	Fax Number _____	Samples Collected by (Name) <u>SCOTT POLSTON</u>
Project Contact (Name) <u>Glen Mitchell</u>	Collection Date <u>10/24/89</u>	Signature <u>Scott Polston</u>
(Phone) <u>671-2387</u>		

Sample Number	Lab Number	Number of Containers	Matrix S = Soil W = Water C = Charcoal	Type G = Grab C = Composite	Time	Sample Preservation	Leak	Analyses To Be Performed							Remarks			
								Modified EPA 8015 Total Petro. Hydrocarb. as Gasoline / BTX	Modified EPA 8015 Total Petro. Hydrocarb. as Gasoline + Diesel	503 Oil and Grease	Arom. Volatiles - BTXE Soil: 8020/Wtr.: 802	Arom. Volatiles - BTXE Soil: 8240/Wtr.: 824	Total Lead DHS-Luft	EDB DHS-AB 1803				
Site Blank		1	W	G	1400	HCL	X											
Trip Blank		1			9:00													
RBW-2		1			1405													
MW-2	0301 0303 04	2			1407			X										
RBW-3		1			1412			X										
MW-3		2			1414			X										
RBW-1		1			1419													
MW-1		2	✓	✓	1423	✓	✓	X										

Relinquished By (Signature) <u>Scott Polston</u>	Organization _____	Date/Time _____	Received By (Signature) _____	Organization _____	Date/Time _____	Turn Around Time (Circle Choice) 24 Hrs 48 Hrs 5 Days 10 Days
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received By (Signature) _____	Organization _____	Date/Time _____	
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received For Laboratory By (Signature) _____	Organization _____	Date/Time _____	

Handwritten notes and signatures in the bottom right corner, including a date 10/27 and a signature.