ENVIRONMENTAL
PROTECTION

96 OCT 22 AM 8:59

Chevron

October 17, 1996

Chevron U.S.A. Products Company
6001 Bollinger Canyon Road
Building L
San Ramon, CA 94583
P.O. Box 5004
San Ramon, CA 94583-0804

Marketing – Northwest Region
Phone 510 842 9500

Ms. Juliet Shin
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Former Chevron Service Station #9-0100
2428 Central Avenue, Alameda, California

Dear Ms. Shin:

Enclosed is a copy of the Semi-Annual Groundwater Monitoring Report that was prepared by our consultant Gettler-Ryan Inc. for the above noted site. Goundwater samples were analyzed for TPH-g, BTEX, and MtBE constituents. Six monitoring wells were sampled, including the three new wells (MW-4, MW-5, MW-6), that were noted under the separate report dated October 14, 1996.

The sampled results for monitoring wells MW-1, MW-2, and MW-3 appear to be consistent with previous sampling events. The sample results for monitoring wells MW-4, MW-5, and MW-6 were below method detection levels for all constituents. Ground water depth varied from 7.90 to 8.80 feet below surface grade with the direction of flow in a northerly direction.

The next sampling event is scheduled for the first quarter of 1997. Field investigation and evaluation of the sewer line in Central Avenue is expected to be conducted at this time to determine what impact, if any, the line has on the dissolved hydrocarbons that are present at the site.

A risk evaluation will be submitted , based on the recent secured data from the latest monitoring well installation. This risk evaluation is expected to be submitted within 45 days. Also note for your files that the Bank of America does not have any further interest in this site and will not be copied with the reports. If you have any questions, call me at (51) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY

Philip R. Briggs
Site Assessment and Remediation Project Manager

Enclosure

cc. Ms. Bette Owen, Chevron

Mr. Robert Stahl
Stahl-Woolridge Investment Properties
2428 Central Avenue, Alameda, CA 94501

GETTLER-RYAN INC.

October 7, 1996 Job #5178.80

Mr. Phil Briggs
Chevron Products Company
P.O. Box 5004
San Ramon, CA 94583

Re: Semi-Annual Groundwater Monitoring & Sampling Report
Former Chevron Service Station #9-0100
2428 Central Avenue
Alameda, CA

Dear Mr. Briggs:

This report documents the semi-annual groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On September 3, 1996, field personnel were on-site to monitor and sample six wells (MW-1 through MW-6) at the Former Chevron Service Station #9-0100 located at 2428 Central Avenue in Alameda, California.

Static groundwater levels were measured on September 3, 1996. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the site wells. Static water level data and groundwater elevations are presented in Table 1. A potentiometric map is included as Figure 1.

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets for this event are also attached. The samples were analyzed by NEI/GTEL Environmental Laboratories, Inc. Analytical results are presented in Table 1. The chain of custody document and laboratory analytical reports are attached.

Thank you for allowing Gettler-Ryan to provide environmental services to Chevron. Please call if you have any questions or comments regarding this report.

Sincerely,

Deanna L. Harding
Project Coordinator

Penny L. Silzer
Senior Geologist, R.G. No. 5523

REGISTERED GEOLOGIST
Penny L. Silzer
No. 5523
STATE OF CALIFORNIA

DLH/PLS/dlh
5178.QML

Figure 1: Potentiometric Map
Table 1: Water Level Data and Groundwater Analytical Results
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

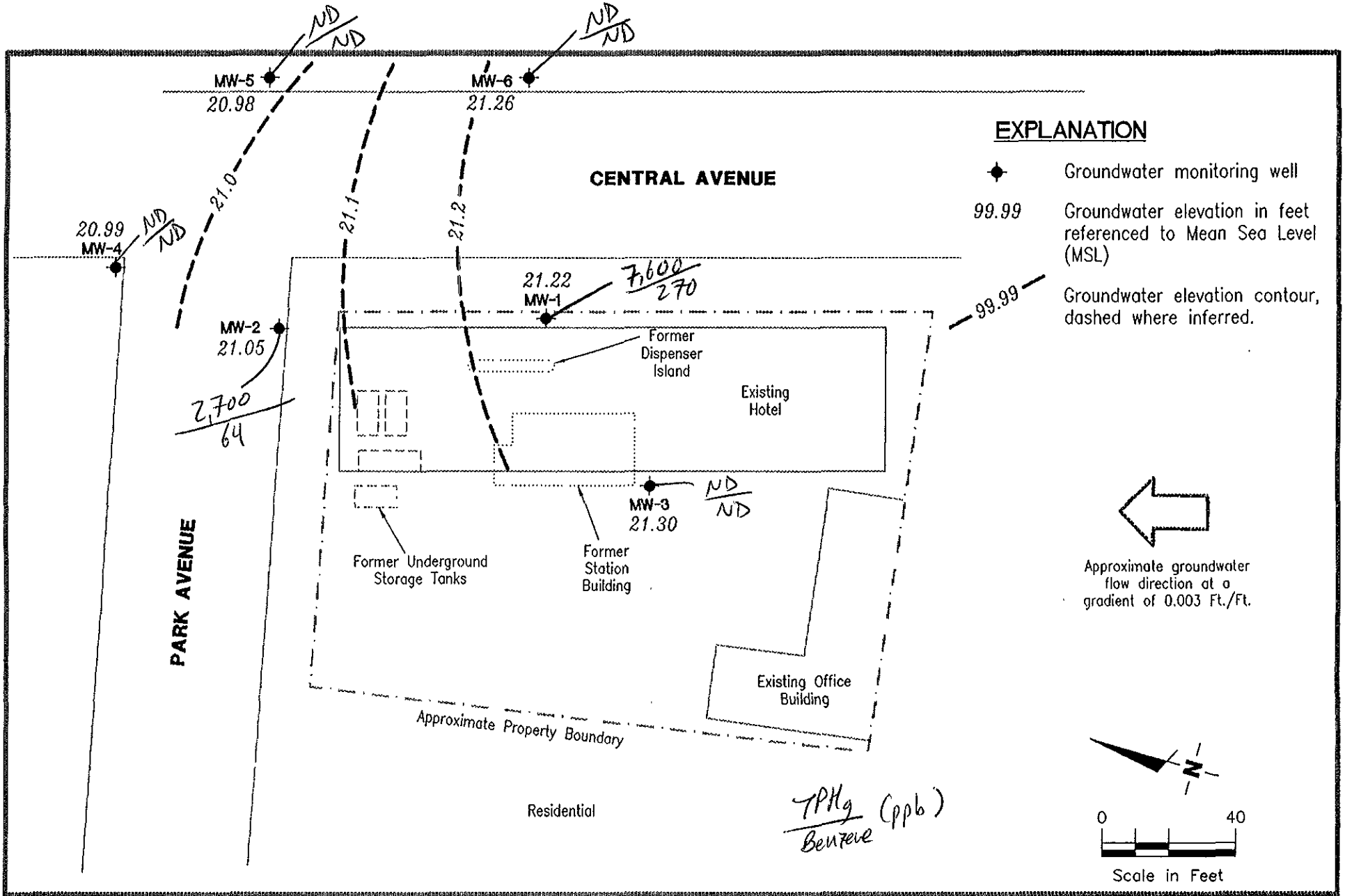

FIGURE 1

Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Former Chevron Service Station No. 9-0100
2428 Central Avenue
Alameda, California

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
5178		August 30, 1996	

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-0100, 2428 Central Avenue, Alameda, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE
						<----------ppb---------->				
MW-1/	3/10/94[1,2]	6.79	22.44	0	7,400	120	120	33	72	---
29.23	6/21/94	7.74	21.49	0	5,300	140	60	21	43	---
	9/26/94	8.94	20.29	0	9,500	<250[5]	<250[5]	<250[5]	<250[5]	---
	12/16/94	6.57	22.66	0	4,700	<0.5	46	15	48	---
	3/22/95	5.16	24.07	0	8,800	55	14	11	<10	---
	6/13/95	5.84	23.39	0	2,100	130	29	9.5	15	---
	9/15/95	7.65	21.58	0	8,100	110	26	6.0	13	---
	3/8/96	5.36	23.87	0	5,600	250	<5.0	<5.0	<5.0	60
29.25**	9/3/96	8.03	21.22	0	7,600	270	5.6	3.4	4.9	120
MW-2/	3/10/94[2,3]	6.94	22.24	0	6,400	<5	64	58	17	---
29.18	6/21/94	7.89	21.29	0	1,800	23	12	6.9	32	---
	9/26/94	8.98	20.20	0	8,400	<100[5]	<100[5]	<100[5]	<100[5]	---
	12/16/94	6.65	22.53	0	2,300	<0.5	29	8.9	33	---
	3/22/95	5.15	24.03	0	1,500	0.6	4.5	<0.5	2.5	---
	6/13/95	6.06	23.12	0	880	<0.5	<0.5	2.2	10	---
	9/15/95	7.72	21.46	0	2,700	<0.5	17	4.8	13	---
	3/8/96	5.38	23.80	0	1,300	42	2.0	0.7	2.2	10
29.19**	9/3/96	8.14	21.05	0	2,700	64	4.6	1.6	4.6	35
MW-3/	3/10/94[2,4]	7.30	22.79	0	<50	<0.5	<0.5	<0.5	<0.5	---
30.09	6/21/94	8.53	21.56	0	<50	<0.5	<0.5	<0.5	<0.5	---
	9/26/94	9.80	20.29	0	<50	<0.5	<0.5	<0.5	<0.5	---
	12/16/94	7.11	22.98	0	<50	<0.5	<0.5	<0.5	<0.5	---
	3/22/95	5.54	24.55	0	<50	<0.5	<0.5	<0.5	<0.5	---
	6/13/95	6.48	23.61	0	<50	<0.5	<0.5	<0.5	<0.5	---
	9/15/95	8.40	21.69	0	<50	<0.5	<0.5	<0.5	<0.5	---
	3/8/96	5.69	24.40	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
30.10**	9/3/96	8.80	21.30	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
MW-4										
29.31**	9/3/96	8.32	20.99	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
MW-5										
28.88**	9/3/96	7.90	20.98	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
MW-6										
29.24**	9/3/96	7.98	21.26	0	<5.0	<0.5	<0.5	<0.5	<0.5	<5.0

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-0100, 2428 Central Avenue, Alameda, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE
						<----------ppb---------->				
Trip Blank	3/10/94	---	---	---	<50	<0.5	0.7	<0.5	<0.5	---
TB-LB	6/21/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	9/26/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	12/16/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	3/22/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	6/13/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	9/15/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	3/8/96	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/3/96	**---**	**---**	**---**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-0100, 2428 Central Avenue, Alameda, California (continued)

EXPLANATION:

TOC = Top of casing elevation
(ft) = feet
DTW = Depth to water
GWE = Groundwater elevation
msl = Measurements referenced relative to mean sea level
TPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
TPH(D) = Total Petroleum Hydrocarbons as Diesel
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl-tertiary-butyl-ether
EDB = Ethylene Dibromide
ppb = Parts per billion
--- = Not analyzed/Not applicable

ANALYTICAL METHODS:

EPA Method 8015/5030 for TPPH(G)
EPA Method 8020 for BTEX & MTBE

NOTES:

Water level elevation data and laboratory analytic results prior to March 22, 1995, were compiled from Quarterly Monitoring Reports prepared for Chevron by Sierra Environmental Services.

* Product thickness was measured on and after June 21,1994 with a MMC Flexi-Dip interface probe.

** Wells MW-1 through MW-6 were surveyed on September 17, 1996, by Virgil Chavez of Vallejo, California (PLS #6323).

1 TPH(D) was also analyzed and detected at 840 ppb. However, chromatogram does not match typical diesel pattern.

2 Organic lead and EDB were also analyzed but not detected at detection limts of 4 and 0.02 ppb, respectively.

3 TPH(D) was also analyzed and detected at 920 ppb. However, chromatogram does not match typical diesel pattern.

4 TPH(D) was also analyzed but not detected at detection limits of 50 ppb.

5 Detection limits raised due to the dilution required by a high amount of foaming in the sample.

5178.TQM

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using a MMC flexi-dip interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using Chevron-designated disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron USA Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F Cline | DATE: 8-30-96

ADDRESS: 2428 Central Ave | JOB #: 517885

CITY: Alameda CA | SS#: 9-0100

Well ID: MW-1 | Well Condition: Okay

Well Location Description:

Well Diameter: 2" in | Hydrocarbon Thickness: 0

Total Depth: 24.7 ft

Depth to Liquid: 8.03 ft

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

# of casing Volume: 3X 16.67 x 0.17 x(VF) 2.8 #Estimated purge Volume: 8.5 gal.

Purge Equipment: Suction | Sampling Equipment: Bailer

Did well dewater: No | If yes, Time: ___ | Volume:

Starting Time: 1334 | Purging Flow Rate: 1.5 gpm.

Sampling Time: 1342

Time	pH	Conductivity	Temperature	Volume
1336	6.73	293	21.9	3
~~1338~~	6.73	~~273~~	~~21.0~~	6
1340	6.72 ✓	268 ✓	21.0 ✓	9
1342	6.73	~~266~~ 269	21.1	12

Weather Conditions: Sunny warm clear

Water Color: Clear | Odor: Mild

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-3	3x40ml VOA	Y	HCl	GTEL	Gas/BTEX/~~EDB~~/TBA

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F Cline | DATE: 8-30-96

ADDRESS: 2428 Central Ave | JOB #: 517885

CITY: Alameda CA | SS#:

Well ID: MW-2 | Well Condition: okay

Well Location Description:

Well Diameter: 2" in | Hydrocarbon Thickness: 0

Total Depth: 23.75 ft

Depth to Liquid: 8.14 ft

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

# of casing Volume: 3 x 15.61 x 0.17 x(VF) 2.65 #Estimated purge Volume: 7.96 gal.

Purge Equipment: Suction | Sampling Equipment: D. Bailer

Did well dewater: NO | If yes, Time: ___ | Volume:

Starting Time: 13:23 | Purging Flow Rate: 1.4 gpm.

Sampling Time:

Time	pH	Conductivity	Temperature	Volume
13:25	6.58	542	23.7	2.8
1327	6.57	547	23.5	5.6
1329	6.58 ✓	545 ✓	23.6 ✓	8.4
1331	6.56	546	23.2	9.0

Weather Conditions: Sunny warm clear

Water Color: Clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-2	3x40mlVOA	Y	HCl	CETEC	GasBTXE MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F Cline | DATE: 8-30-96

ADDRESS: 2428 Central Ave | JOB #: 5178.85

CITY: Alameda, CA | SS#: 9-0100

Well ID: MW-3 | Well Condition: clay

Well Location Description:

Well Diameter: 2" in | Hydrocarbon Thickness: 0

Total Depth: 24.5 ft

Depth to Liquid: 8.80 ft

Volume Factor (VF)	2" = 0.17	4" = 0.66	6" = 1.50	12" = 5.80
	3" = 0.38			

# of casing Volume: 3x 15.7 x 0.17 x(VF) 2.7 = #Estimated purge Volume: 8.0 gal.

Purge Equipment: Suction | Sampling Equipment: D. Baller

Did well dewater: N/C | If yes, Time: ___ | Volume:

Starting Time: 13'11 | Purging Flow Rate: 1.5 gpm.

Sampling Time: 1320

Time	pH	Conductivity	Temperature	Volume
1313	6.63	386	23.7	3
1315	6.64	373	22.5	6
1317	6.64 ✓	370 ✓	22.7 ✓	9
1320	6.63	369	22.5	12

Weather Conditions: Sunny Clear Warm

Water Color: Clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-3	3x40ml VOA	Y	HCl	GTEL	Gas BTXE MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F Cline | DATE: 8-30-96

ADDRESS: 2428 Central Ave | JOB #: 517185

CITY: Alameda CA | SS#:

Well ID: MW-4 | Well Condition: okay

Well Location Description:

Well Diameter: 2" in | Hydrocarbon Thickness: 0

Total Depth: 20' ft

Depth to Liquid: 8.32 ft

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38		
	4" = 0.66		

# of casing Volume: 3x 11.68 x 0.17 x(VF) 1.9 #Estimated purge Volume: 5.9 gal.

Purge Equipment: Suction | Sampling Equipment: D. Bailer

Did well dewater: N/C | If yes, Time: ___ Volume:

Starting Time: 12:55 | Purging Flow Rate: 1.0 gpm.

Sampling Time: 1304

Time	pH	Conductivity	Temperature	Volume
1257	5.16	928	23.6	2
1259	6.59	672	23.3	4
1301	6.59 ✓	657 ✓	23.1 ✓	6
1304	6.60	660	23.2	7

Weather Conditions: Sunny, warming

Water Color: clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-4	3x40ml VOA	Y	HCl	CTEL	Gas BTXE MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F Cline | DATE: 8-30-96

ADDRESS: 2428 Central Ave | JOB #: 517815

CITY: Alameda CA | SS#: 9-0100

Well ID: MW-5 | Well Condition: Okay

Well Location Description:

Well Diameter: 2" in | Hydrocarbon Thickness: 0

Total Depth: 21 ft

Depth to Liquid: 7.90 ft

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

# of casing Volume: 3x 13.1 x 0.17 x(VF) 2.227 #Estimated purge Volume: 6.7 gal.

Purge Equipment: Suction | Sampling Equipment: Bailer

Did well dewater: No | If yes, Time: | Volume:

Starting Time: 12:30 | Purging Flow Rate: 1.1 gpm.

Sampling Time: 1239

Time	pH	Conductivity	Temperature	Volume
12:32	6.87	960	23.1	2.2
12:34	7.40	742	22.9	4.4
1236	7.42 ✓	716 ✓	22.8 ✓	6.6
1239	7.41	715	22.4	7.6

Weather Conditions: Partly cloudy warming

Water Color: Clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-5	3x40 ml	Y	HCl	CTEL	Gas BTEX

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F Cline | DATE: 8-30-96

ADDRESS: 2428 Central Ave | JOB #: 5178.85

CITY: Alameda CA | SS#: 9-0100

Well ID: MW-6 | Well Condition: Okay

Well Location Description:

Well Diameter: 2" in | Hydrocarbon Thickness: 0

Total Depth: 21 ft

Depth to Liquid: 7.98 ft

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

# of casing Volume: 13.02 x 0.17 x(VF) 2.2 #Estimated purge Volume: 6.6 gal.

Purge Equipment: Suction | Sampling Equipment: Bailer

Did well dewater: No | If yes, Time: | Volume:

Starting Time: 1008 | Purging Flow Rate: 1.1 gpm.

Sampling Time: 1217

Time	pH	Conductivity	Temperature	Volume
1210	6.74	1016	22.2	2.2
1212	6.71	~~951~~	22.0	4.4
1214	6.73	~~964~~	22.1	6.6
1217	6.72 ✓	960 ✓	22.6 ✓	7.0

Weather Conditions: Partly Cloudy warming

Water Color: Clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-6	3x40mlVOA	Y	HCl	GTEL	Gas BTXE MTBE

Comments:

Fax copy of Lab Report and COC to Chevron Contact. ETNO

Chain-of-Custody

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

Chevron Facility Number: 9-0100
Facility Address: 2428 Central Ave Alameda CA
Consultant Project Number: 5178.85
Consultant Name: Gettler-Ryan
Address: 6747 Sierra Ct, Ste J, Dublin 94568
Project Contact (Name): Deanna Harding
(Phone): 510 551-7555 (Fax Number): 510 551-7888

Chevron Contact (Name): Tammy Hodge
(Phone): 842-9449
Laboratory Name: GTEL
Laboratory Release Number: 347082C
Samples Collected by (Name): F. Cline
Collection Date: 9-3-96
Signature:

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)	Analyses To Be Performed: TPH Gas + BTEX w/MTBE (8015) (8020)	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)						DO NOT BILL TB-LB ANALYSIS Remarks
TB-43		2	W	TB		HCL	Y	X													
MW-3		3		G	1320			X													
MW-4					1304			X													
MW-5					1239			X													
MW-6					1217			X													
MW-2					1331			X													
MW-1	WW.09.0081				1342			X												→	No Seals 12 7026251891

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	GTEL	9-4-96	D. Harding	G R	9/4/96 8:00
D. Harding	G-R	9/5/96 14:10		NEI/GTEL	9/5/96 14:10
Dale Wells	NEI/GTEL	9/5/96 1600	Received For Laboratory By (Signature) Tammy Dillisch		9/6/96 0840

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

COC-3.DWG/03 91/HCH

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

September 17, 1996

Deanna Harding
GETTLER-RYAN
6747 Sierra Ct.
Suite J
Dublin, CA 94568

RE: GTEL Client ID: GTR01CHV08
Login Number: W6090081
Project ID (number): 5178.85
Project ID (name): CHEVRON/9-0100/2428 CENTRAL AVE/ALAMEDA/CA

Dear Deanna Harding:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 09/06/96.

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. This report is to be reproduced only in full.

NEI/GTEL is certified by the California Department of Health Service under Certification Number 1845.

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

Sincerely,
GTEL Environmental Laboratories, Inc.

Justin Ward, Project Coordinator for
Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
Login Number: W6090081
Project ID (number): 5178.85
Project ID (name): CHEVRON/9-0100/2428 CENTRAL AVE/ALAMEDA/CA

Method: EPA 8020A
Matrix: Aqueous

	GTEL Sample Number	W6090081-01	W6090081-02	W6090081-03	W6090081-04
	Client ID	TB-LB	MW-3	MW-4	MW-5
	Date Sampled		09/03/96	09/03/96	09/03/96
	Date Analyzed	09/12/96	09/12/96	09/12/96	09/12/96
	Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:			
MTBE	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes (total)	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
BTEX (total)	--	ug/L	--	--	--	--
TPH as Gasoline	50	ug/L	< 50	< 50	< 50	< 50

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020A:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. Analyte list modified to include additional compounds. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update II.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
Login Number: W6090081
Project ID (number): 5178.85
Project ID (name): CHEVRON/9-0100/2428 CENTRAL AVE/ALAMEDA/CA

Method: EPA 8020A
Matrix: Aqueous

GTEL Sample Number		W6090081-05	W6090081-06	W6090081-07	--
Client ID		MW-6	MW-2	MW-1	--
Date Sampled		09/03/96	09/03/96	09/03/96	--
Date Analyzed		09/12/96	09/13/96	09/13/96	--
Dilution Factor		1.00	1.00	1.00	--
Analyte	Reporting Limit	Units	Concentration:		
MTBE	5.0	ug/L	< 5.0	35.	120	--
Benzene	0.5	ug/L	< 0.5	64.	270	--
Toluene	0.5	ug/L	< 0.5	4.6	5.6	--
Ethylbenzene	0.5	ug/L	< 0.5	1.6	3.4	--
Xylenes (total)	0.5	ug/L	< 0.5	4.6	4.9	--
BTEX (total)	--	ug/L	--	75.	280	--
TPH as Gasoline	50	ug/L	< 50	2700	7600	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020A:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. Analyte list modified to include additional compounds. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update II.

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6090081 Volatile Organics
Project ID (number): 5178.85 Method: EPA 8020A
Project ID (name): CHEVRON/9-0100/2428 CENTRAL AVE/ALAMEDA/CA Matrix: Aqueous

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	X	--	--
Surrogate Recovery	X	--	NA
Holding Time	X	--	--
Method Accuracy	X	--	--
Method Precision	X	--	--
Blank Contamination	X	--	--

Comments:

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6090081 Volatile Organics
Project ID (number): 5178.85 Method: EPA 8020A
Project ID (name): CHEVRON/9-0100/2428 CENTRAL AVE/ALAMEDA/CA Matrix: Aqueous

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT
Method: EPA 8020A		Acceptability Limits:	43-136%
091296GC17-1	CV0912962017	Calibration Verifi	98.5
091296GC17-3	BW09129617	Method Blank Water	91.8
091296GC17-4	LW09129617	Laboratory Control	95.7
091296GC17-7	DP09008107	Duplicate	104.
--	09008101	TB-LB	96.9
--	09008102	MW-3	85.0
--	09008103	MW-4	95.0
--	09008104	MW-5	94.1
--	09008105	MW-6	93.8
--	09008106	MW-2	99.5
--	09008107	MW-1	104.

Notes:
*: Indicates values outside of acceptability limits. See Nonconformance Summary.

Project ID (Number): 5178.85
Project ID (Name): Chevron SS #9-0100
2428 Central Ave.
Alameda, CA
Work Order Number: W6-09-0081
Date Reported: 09-17-96

METHOD BLANK REPORT

Volatile Organics in Water
EPA Method 8020A

Date of Analysis: 12-Sep-96 QC Batch No: 091296GC17-3

Analyte	Concentration, ug/L
MTBE	<5.0
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
Xylene (total)	<0.5
TPH as Gasoline	<50

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6090081 Volatile Organics
Project ID (number): 5178.85 Method: EPA 8020A
Project ID (name): CHEVRON/9-0100/2428 CENTRAL AVE/ALAMEDA/CA Matrix: Aqueous

Calibration Verification Sample Summary

Analyte		Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8020A	Units:ug/L	QC Batch:091296GC17-1			
Benzene		20.0	23.5	118.	77-123%
Toluene		20.0	22.6	113.	77.5-122.5%
Ethylbenzene		20.0	22.4	112.	63-137%
Xylenes (Total)		60.0	64.1	107.	85-115%
TPH as Gasoline		500.	470.	94.0	80-120%

Notes:
QC check source: Supelco #LA12389

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6090081 Volatile Organics
Project ID (number): 5178.85 Method: EPA 8020A
Project ID (name): CHEVRON/9-0100/2428 CENTRAL AVE/ALAMEDA/CA Matrix: Aqueous

Laboratory Control Sample Summary

Analyte		Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8020A	Units:ug/L	QC Batch:091296GC17-4			
Benzene		20.0	23.5	118.	39-150%
Toluene		20.0	22.6	113.	46-148%
Ethylbenzene		20.0	22.3	112.	32-160%
Xylenes (Total)		60.0	64.0	107.	51-145%

Notes:

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6090081 Volatile Organics
Project ID (number): 5178.85 Method: EPA 8020A
Project ID (name): CHEVRON/9-0100/2428 CENTRAL AVE/ALAMEDA/CA Matrix: Aqueous

Duplicate Sample Results

Analyte	Original Concentration	Duplicate Concentration	RPD, %	Acceptability Limits, %
EPA 8020A Units: ug/L	QC Batch: 091296GC17-7	GTEL Sample ID: W6090081-07		Client ID: MW-1
MTBE	121.	116.	4.22	20
Benzene	270.	257.	4.93	23.9
Toluene	5.59	5.31	5.14	27.2
Ethylbenzene	3.43	3.21	6.63	21.6
Xylenes (Total)	4.87	4.62	5.27	22.0
TPH as Gasoline	7620	< 100.	NA	20

Notes:
NA - The concentration of the analyte is less than the reporting limit.