



GETTLER-RYAN INC.

TRANSMITTAL

APR 02 2002

March 15, 2002
G-R #386521

TO: Mr. James Brownell
Delta Environmental Consultants, Inc.
3164 Gold Camp Drive, Suite 200
Rancho Cordova, California 95670

CC: Mr. Thomas Bauhs
Chevron Products Company
P.O. Box 6004
San Ramon, California 94583

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: Former Chevron Service Station
#209339
5940 College Avenue
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	March 12, 2002	Groundwater Monitoring and Sampling Report First Quarter - Event of January 13, 2002

COMMENTS:

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **March 28, 2002**, at which time the final report will be distributed to the following:

cc: Ms. Eva Chu, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577
Mr. Greg Gurs, Gettler-Ryan Inc., 3140 Gold Camp Drive, Suite 170, Rancho Cordova, CA 95670

Enclosures

trans/20-9339-TB



GETTLER-RYAN INC.

March 12, 2002
G-R Job #386521

Mr. Thomas Bauhs
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

RE: First Quarter Event of January 13, 2002
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

Dear Mr. Bauhs:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached). A joint monitoring event was scheduled but not conducted on the same day with Sheaff's Garage located at 5930 College Avenue, Oakland, California.

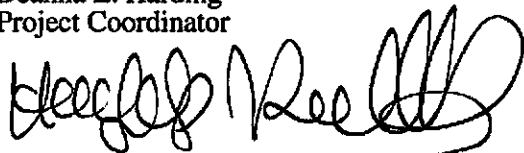
Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Groundwater Elevation Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached.

Please call if you have any questions or comments regarding this report. Thank you.

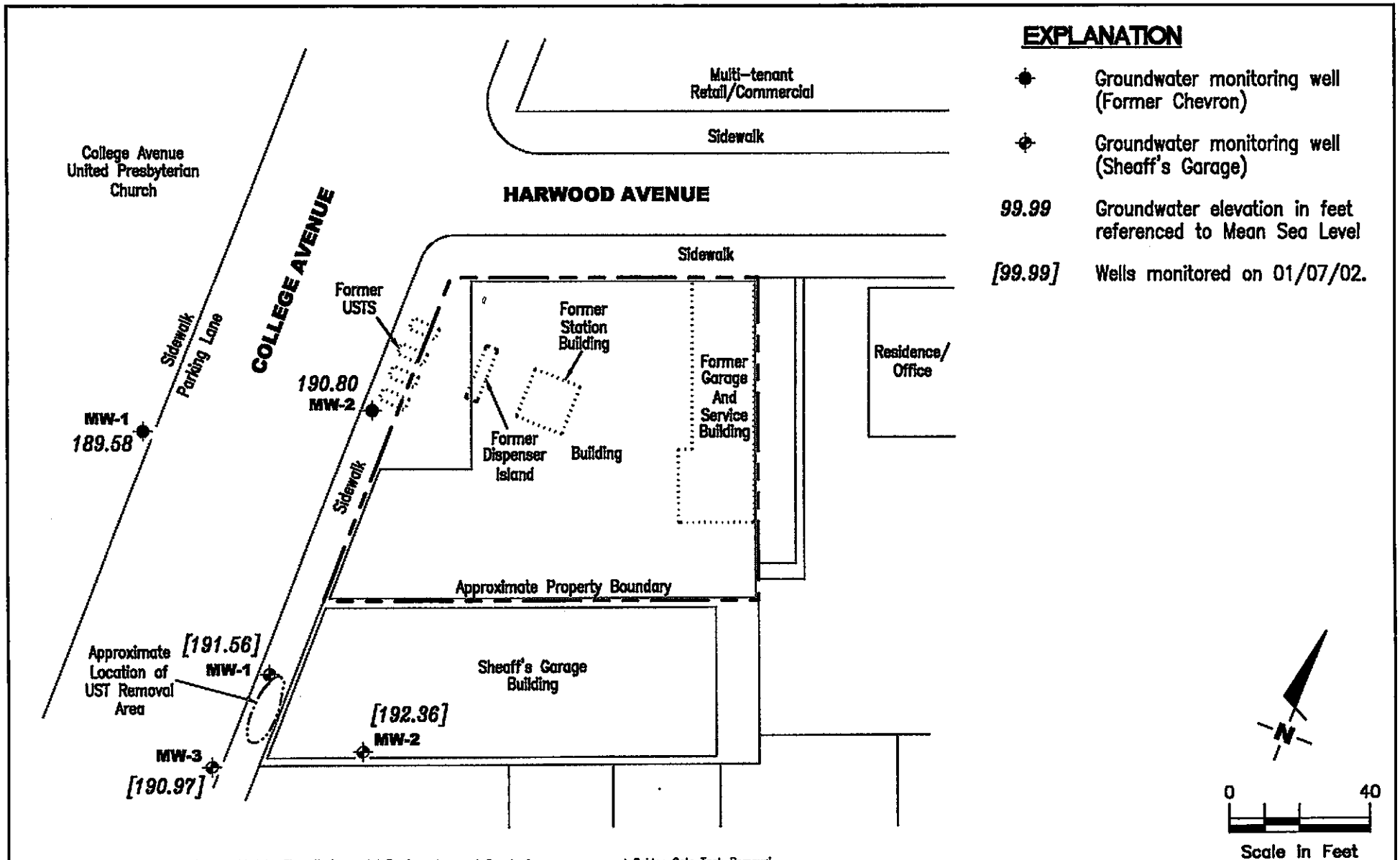
Sincerely,


Deanna L. Harding
Project Coordinator


Hagop Kevork
P.E. No. C55734



- Figure 1: Groundwater Elevation Map
- Table 1: Groundwater Monitoring Data and Analytical Results
- Table 2: Groundwater Analytical Results - Oxygenate Compounds
- Table 3: Groundwater Analytical Results
- Table 4: Field Measurements
- Table 5: Joint Groundwater Monitoring Data and Analytical Results
- Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



Source: Figure modified from drawing provided by Piers Environmental Services, Inc. and County Assessors map and Golden Gate Tank Removal.

GETTLER - RYAN INC.
 6747 Sierra Ct., Suite J
 Dublin, CA 94568 (925) 551-7555

GROUNDWATER ELEVATION MAP
 Former Chevron Service Station #209339
 5940 College Avenue
 Oakland, California

FIGURE

1

PROJECT NUMBER
 386521

REVIEWED BY

DATE
 January 13, 2002

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1									
196.91	01/03/01	12.75	184.16	930 ¹	2.9	6.9	2.7	7.6	14/<2.0 ³
	04/25/01	9.23	187.68	210 ⁴	2.0	1.5	2.0	3.3	5.3/<2.0 ³
	07/09/01	11.86	185.05	290 ⁵	1.8	2.0	2.5	0.96	<2.5
	10/08/01	13.49	183.42	200	<0.50	<0.50	<0.50	<1.5	<2.5
	01/13/02	7.33	189.58	<50	<0.50	<0.50	<0.50	<0.50	<2.5
MW-2									
197.35	01/03/01	12.48	184.87	2,100 ²	110	11	63	25	83/2.2 ³
	04/25/01	8.90	188.45	1,700 ⁴	150	12	30	15	150/<2.0 ³
	07/09/01	11.44	185.91	2,500 ⁵	200	21	55	26	<50
	10/08/01	13.37	183.98	4,200	87	2.8	29	9.8	<2.5
	01/13/02	6.55	190.80	410	20	2.9	<2.5	4.4	27/<2.0 ³
TRIP BLANK									
TB-LB	01/03/01	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	04/25/01	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	07/09/01	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA	10/08/01	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	01/13/02	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

EXPLANATIONS:

TOC = Top of Casing
DTW = Depth to Water
(ft.) = Feet

GWE = Groundwater Elevation
(msl) = Mean sea level

TPH-G = Total Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes

MTBE = Methyl tertiary butyl ether
(ppb) = Parts per billion
-- = Not Measured/Not Analyzed
QA = Quality Assurance

* TOC elevations were surveyed on December 27, 2000, by Virgil Chavez Land Surveying. The benchmark used for the survey was a City of Oakland benchmark being a cut square in the top of curb, at the curb return at the northeast corner of College Avenue and Miles Avenue, (Benchmark Elev. = 179.075 feet, msl).

¹ Laboratory report indicates unidentified hydrocarbons C6-C12.

² Laboratory report indicates gasoline C6-C12.

³ MTBE by EPA Method 8260.

⁴ Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons <C6.

⁵ Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons C6-C12.

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)
MW-1	01/03/01	<500	<50	<2.0	<2.0	<2.0	<2.0	<2.0
	04/25/01	--	<20	<2.0	<2.0	<2.0	<2.0	--
MW-2	01/03/01	<500	<50	2.2	<2.0	<2.0	<2.0	<2.0
	04/25/01	--	<20	<2.0	<2.0	<2.0	<2.0	--
	01/13/02	--	<20	<2.0	<2.0	<2.0	<2.0	--

EXPLANATIONS:

TBA = Tertiary butyl alcohol
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
(ppb) = Parts per billion
-- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 3
Groundwater Analytical Results
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

WELL ID	DATE	FERROUS IRON (ppm)	TOTAL ALKALINITY (ppm)	SULFATE AS SO ₄ (ppm)
MW-1	04/25/01	0.15	380	11
	07/09/01	<0.050	410	6.8
	10/08/01	-- ¹	414	5.4
	01/13/02	<0.10 ²	390	10
MW-2	04/25/01	0.093	680	21
	07/09/01	0.44	600	9.3
	10/08/01	-- ¹	683	3.8
	01/13/02	<0.10 ²	630	7.0

EXPLANATIONS:

(ppm) = Parts per million

-- = Not Analyzed

¹ Analysis was not performed by the Laboratory as requested on the Chain of Custody.

² Due to sample transfer by the lab from laboratory to another, the sample was received beyond the EPA recommended holding time.

ANALYTICAL METHODS:

EPA Method SM 3500 Fe for Ferrous Iron

EPA Method 310.1 for Total Alkalinity

EPA Method 300.0 for Sulfate as SO₄

Table 4

Field Measurements

Former Chevron Service Station #209339

5940 College Avenue

Oakland, California

WELL ID	DATE	D.O. Before Purging (mg/L)	ORP Before Purging (mV)
MW-1	07/09/01	1.25	111
	10/08/01	1.20	64
	01/13/02 ¹	--	--
MW-2	07/09/01	1.89	16
	10/08/01	1.04	58
	01/13/02 ¹	--	--

EXPLANATIONS:

D.O. = Dissolved Oxygen Concentration

(mg/L) = Milligrams per liter

ORP = Oxygen Reduction Potential

(mV) = Millivolt

-- = Not Measured

¹ D.O. and ORP meter erratic; measurements not taken.

Table 5
Joint Groundwater Monitoring Data and Analytical Results
 Sheaff's Garage
 5930 College Avenue
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1									
195.90	04/25/01 ¹	7.39	188.51	--	--	--	--	--	--
	07/09/01	9.72	186.18	79,000	15,000	7,800	3,000	15,000	660
	10/08/01	10.88	185.02	112,000	25,300	11,800	4,280	20,600	374
	01/07/02 ³	4.34	191.56	96,100	21,100	13,500	4,160	21,900	596/330 ²
MW-2									
197.28	04/25/01 ¹	8.52	188.76	--	--	--	--	--	--
	07/09/01	11.05	186.23	39,000	6,200	730	2,300	6,100	180
	10/08/01	12.79	184.49	40,700	6,310	399	2,100	5,320	6,460
	01/07/02 ³	4.92	192.36	59,600	10,300	3,250	4,180	14,400	366/170 ²
MW-3									
195.22	04/25/01 ¹	6.61	188.61	--	--	--	--	--	--
	07/09/01	8.85	186.37	12,000	39	10	690	1,600	35
	10/08/01	9.75	185.47	4,912.5	107.7	3.9	99.0	132.5	52.2
	01/07/02 ³	4.25	190.97	7,260	723	138	492	887	81.7/16.7 ²

Table 5
Joint Groundwater Monitoring and Analytical Results
Sheaff's Garage
5930 College Avenue
Oakland, California

EXPLANATIONS:

Joint groundwater monitoring data and laboratory analytical results were provided by Golden Gate Tank Removal, Inc.

TOC = Top of Casing

DTW = Depth to Water

(ft.) = Feet

GWE = Groundwater Elevation

(msl) = Mean sea level

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion

-- = Not Measured/Not Analyzed

* TOC elevations were surveyed on April 26, 2001, by Virgil Chavez Land Surveying. The benchmark for the survey was a City of Oakland benchmark being a cut square in the top of curb, at the curb return at the northeast corner of College Avenue and Miles Avenue, (Benchmark Elevation = 179.075 feet, msl).

¹ Joint monitoring laboratory analytical results were not provided.

² MTBE by EPA Method 8260

³ Joint monitoring was conducted on different day than Chevron.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. 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 an 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 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 MONITORING/SAMPLING
FIELD DATA SHEET.**

Client/ **CHEVRON**

Facility # 209339

Job#: 386521

Address: 5940 College Ave.

Date: 1-13-02

City: Oakland, CA

Sampler: BG

Well ID MW-1

Well Condition: OK

Well Diameter 2 in.

Hydrocarbon Thickness: 0 (feet) Amount Bailed 0 (Gallons)
(product/water):

Total Depth 20.10 ft.

Depth to Water 7.33 ft.

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

12.77 X VF .17 = 2 X 3 (case volume) = Estimated Purge Volume: 6 (gal.)

Purge Equipment:

Disposable Bailer
Bailer
Stack
Suction
Grundfos
Other: _____

Sampling Equipment:

Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 11:03

Weather Conditions: Cloudy

Sampling Time: 11:15

Water Color: Clear Odor: No

Purging Flow Rate: _____ gpm.

Sediment Description: _____

Did well de-water? No

If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:07</u>	<u>2</u>	<u>6.86</u>	<u>611</u>	<u>61.8</u>			
<u>11:10</u>	<u>4</u>	<u>6.80</u>	<u>612</u>	<u>61.6</u>			
<u>11:13</u>	<u>6</u>	<u>6.71</u>	<u>615</u>	<u>61.3</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3X VOFs</u>	<u>Y</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH(G)/btex/mtbe</u>
<u>MW-1</u>	<u>1X PIST</u>	<u>Y</u>	<u>N.P.</u>	<u>"</u>	<u>S-IFate / Alkalinity</u>
<u>MW-1</u>	<u>1X PIST</u>	<u>Y</u>	<u>N.P.</u>	<u>"</u>	<u>Ferrous Iron</u>

COMMENTS: U.O. & ORP meter erratic, not taken

**WELL MONITORING/SAMPLING
FIELD DATA SHEET.**

Client/CHEVRON

Facility # 209339

Job #: 386521

Address: 5940 College Ave.

Date: 1-13-02

City: Oakland, CA

Sampler: BG

Well ID MW-2

Well Condition: OK

Well Diameter 2 in.

Hydrocarbon Thickness: 0 (feet) Amount Bailed 0 (Gallons)

Total Depth 20.06 ft.

Depth to Water 6.55 ft.

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

13.51 x VF 17 = 2 x 3 (case volume) = Estimated Purge Volume: 6 (gal.)

Purge Equipment: Disposable Bailer
~~Bailer~~
 Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
~~Bailer~~
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 11:35

Weather Conditions: Cloudy

Sampling Time: 11:50

Water Color: Clear Odor: NO

Purging Flow Rate: _____ gpm.

Sediment Description: _____

Did well de-water? _____

If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:39</u>	<u>2</u>	<u>6.81</u>	<u>560</u>	<u>62.1</u>			
<u>11:44</u>	<u>4</u>	<u>6.76</u>	<u>560</u>	<u>62.1</u>			
<u>11:47</u>	<u>6</u>	<u>6.71</u>	<u>562</u>	<u>62.0</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3XVIA'S</u>	<u>Y</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH(G)/btex/mtbe</u>
<u>MW-2</u>	<u>1 X PIST</u>	<u>Y</u>	<u>N.P.</u>	<u>"</u>	<u>Sulfate/Alkalinity</u>
<u>MW-2</u>	<u>1 X PIST</u>	<u>Y</u>	<u>N.P.</u>	<u>"</u>	<u>Ferrous Iron</u>

COMMENTS: D.O. + ORP meter available, not taken

01/29/02 00:28 02/02 NO:250
 925 988 9673
 SEQUOIA ANALYTICAL

1st copy of Lab Report and COC to Chevron Contact: No

Chain-of-Custody-Record

Chevron Facility Number #269389
 Facility Address 5940 College Ave, Oakland, CA
 Consultant Project Number 386521
 Consultant Name GETTLER-RYAN INC.
 Address 6747 SIERRA COURT, SUITE J, DUBLIN, CA 94568
 Project Contact (Name) DEANNA L. HARDING
 (Phone) 925-551-7555 (Fax Number) 925-551-7899

Chevron Contact (Name) Mr. THOMAS BAUKS
 (Phone) (925) 842-8898
 Laboratory Name Sequoia W201190
 Laboratory Service Order
 Laboratory Service Code
 Samples Collected by (Name) Brian Gau
 Signature *Brian Gau*

State Method: CA OR WA NW Series CO UT IDAHO

Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Sample Preservation	Date/Time	INDEX/MTBE+TPH GAS (8020 + 8015)	INDEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Organics (8280)	Purgeable Hydrocarbons (8010)	Purgeable Organics (8280)	Extractable Organics (8270)	Oil and Grease (8020)	Metals (Cd, Cr, Pb, Zn, Ni)	INDEX (8020)	INDEX/MTBE/Naph. (8020)	TPH - HCl	TPH-8 Extended	Sulfide Alkalinity	Ferrous Iron	Remarks
3-LB	1	X	HCL	1/13/02	X					01A								X	X	Run 500
1W-1	5	↓	↓	11:50	X					02A-E								X	X	by 8266
1W-2	5	↓	↓	11:50	X					03A-E								X	X	on all MTR
																				HITS

* Sampling times as per Bob Henon
 1/14/02 14:20

Released By (Signature) <i>Brian Gau</i>	Organization G-R INC.	Date/Time	Received By (Signature) <i>Brian Gau</i>	Organization G-R	Date/Time 1-14-02	Received For Laboratory By (Signature)	Organization SEQ-WC	Date/Time 1/14/02 10:15	iced Y/N <input checked="" type="checkbox"/> Y	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <input checked="" type="radio"/> As Contracted
Released By (Signature) <i>Brian Gau</i>	Organization G-R	Date/Time 1-14-02	Received By (Signature) <i>[Signature]</i>	Organization G-R	Date/Time 1-14-02	Received For Laboratory By (Signature)	Organization SEQ-WC	Date/Time 1/14/02 10:15	iced Y/N <input type="checkbox"/> N	
Released By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)	Organization	Date/Time	iced Y/N <input type="checkbox"/> N	



**Sequoia
Analytical**

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequoialabs.com

29 January, 2002

Deanna L. Harding
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RECEIVED

JAN 29 2002

GETTLER-RYAN INC.
GENERAL CONTRACTORS

RE: Chevron
Sequoia Report: W201190

Enclosed are the results of analyses for samples received by the laboratory on 14-Jan-02 10:15. If you have any questions concerning this report, please feel free to contact me.

Charlie Westwater
Project Manager

CA ELAP Certificate #1271



Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Chevron
Project Number: Chevron # 209339
Project Manager: Deanna L. Harding

Reported:
29-Jan-02 11:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	W201190-01	Water	13-Jan-02 00:00	14-Jan-02 10:15
MW-1	W201190-02	Water	13-Jan-02 11:15	14-Jan-02 10:15
MW-2	W201190-03	Water	13-Jan-02 11:50	14-Jan-02 10:15

Sequoia Analytical - Walnut Creek

Charlie Westwater, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Gettler Ryan, Inc. - Dublin
 6747 Sierra Court Suite J
 Dublin CA, 94568

 Project: Chevron
 Project Number: Chevron # 209339
 Project Manager: Deanna L. Harding

Reported:
 29-Jan-02 11:17

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (W201190-01) Water Sampled: 13-Jan-02 00:00 Received: 14-Jan-02 10:15									
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l	1	2A14002	15-Jan-02	15-Jan-02	EPA 8015M/8021	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	2.5	"	"	"	"	"	"	Q-28
<i>Surrogate: a,a,a-Trifluorotoluene</i>		103 %	70-130		"	"	"	"	
MW-1 (W201190-02) Water Sampled: 13-Jan-02 11:15 Received: 14-Jan-02 10:15									
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l	1	2A14002	15-Jan-02	15-Jan-02	EPA 8015M/8021	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	2.5	"	"	"	"	"	"	Q-28
<i>Surrogate: a,a,a-Trifluorotoluene</i>		101 %	70-130		"	"	"	"	
MW-2 (W201190-03) Water Sampled: 13-Jan-02 11:50 Received: 14-Jan-02 10:15									
Purgeable Hydrocarbons (C6-C12)	410	250	ug/l	5	2A14002	15-Jan-02	15-Jan-02	EPA 8015M/8021	
Benzene	20	2.5	"	"	"	"	"	"	
Toluene	2.9	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	4.4	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	27	12	"	"	"	"	"	"	Q-28
<i>Surrogate: a,a,a-Trifluorotoluene</i>		111 %	70-130		"	"	"	"	



Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Chevron
Project Number: Chevron # 209339
Project Manager: Deanna L. Harding

Reported:
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Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (W201190-03) Water Sampled: 13-Jan-02 11:50 Received: 14-Jan-02 10:15									
tert-Butyl alcohol	ND	20	ug/l	1	2A23016	17-Jan-02	17-Jan-02	EPA 8260B	
Methyl tert-butyl ether (MTBE)	ND	2.0	"	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		101 %		50-150	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %		50-150	"	"	"	"	"

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Reported:
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**Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W201190-02) Water Sampled: 13-Jan-02 11:15 Received: 14-Jan-02 10:15									
Total Alkalinity	390	11	mg/l	10	2A28011	24-Jan-02	24-Jan-02	EPA 310.1	
MW-2 (W201190-03) Water Sampled: 13-Jan-02 11:50 Received: 14-Jan-02 10:15									
Total Alkalinity	630	11	mg/l	10	2A28011	24-Jan-02	24-Jan-02	EPA 310.1	



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Reported:
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**Anions by EPA Method 300.0
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W201190-02) Water Sampled: 13-Jan-02 11:15 Received: 14-Jan-02 10:15									
Sulfate as SO4	10	2.3	mg/l	10	2A17005	15-Jan-02	15-Jan-02	EPA 300.0	
MW-2 (W201190-03) Water Sampled: 13-Jan-02 11:50 Received: 14-Jan-02 10:15									
Sulfate as SO4	7.0	2.3	mg/l	10	2A17005	15-Jan-02	15-Jan-02	EPA 300.0	



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Project Manager: Deanna L. Harding

Reported:
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**Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W201190-02) Water Sampled: 13-Jan-02 11:15 Received: 14-Jan-02 10:15									
Ferrous Iron	ND	0.10	mg/l	1	2010261	14-Jan-02	14-Jan-02	SM 3500 Fe D#4	HT-01
MW-2 (W201190-03) Water Sampled: 13-Jan-02 11:50 Received: 14-Jan-02 10:15									
Ferrous Iron	ND	0.10	mg/l	1	2010261	14-Jan-02	14-Jan-02	SM 3500 Fe D#4	HT-01



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Project: Chevron
Project Number: Chevron # 209339
Project Manager: Deanna L. Harding

Reported:
29-Jan-02 11:17

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2A14002 - EPA 5030B P/T										
Blank (2A14002-BLK1) Prepared & Analyzed: 14-Jan-02										
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether (MTBE)	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	28.2		"	30.0		94	70-130			
Blank (2A14002-BLK2) Prepared & Analyzed: 15-Jan-02										
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether (MTBE)	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	32.1		"	30.0		107	70-130			
LCS (2A14002-BS1) Prepared & Analyzed: 14-Jan-02										
Benzene	21.0	0.50	ug/l	20.0		105	70-130			
Toluene	22.0	0.50	"	20.0		110	70-130			
Ethylbenzene	23.0	0.50	"	20.0		115	70-130			
Xylenes (total)	69.8	0.50	"	60.0		116	70-130			
Surrogate: a,a,a-Trifluorotoluene	30.1		"	30.0		100	70-130			
LCS (2A14002-BS2) Prepared & Analyzed: 15-Jan-02										
Benzene	18.7	0.50	ug/l	20.0		94	70-130			
Toluene	19.5	0.50	"	20.0		98	70-130			
Ethylbenzene	20.3	0.50	"	20.0		102	70-130			
Xylenes (total)	60.6	0.50	"	60.0		101	70-130			
Surrogate: a,a,a-Trifluorotoluene	30.9		"	30.0		103	70-130			



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Reported:
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2A14002 - EPA 5030B P/T										
Matrix Spike (2A14002-MS1) Source: W201195-03 Prepared: 14-Jan-02 Analyzed: 15-Jan-02										
Benzene	21.2	0.50	ug/l	20.0	ND	106	70-130			
Toluene	22.3	0.50	"	20.0	ND	112	70-130			
Ethylbenzene	22.9	0.50	"	20.0	ND	114	70-130			
Xylenes (total)	68.1	0.50	"	60.0	ND	114	70-130			
Surrogate: a,a,a-Trifluorotoluene	32.2		"	30.0		107	70-130			
Matrix Spike Dup (2A14002-MSD1) Source: W201195-03 Prepared: 14-Jan-02 Analyzed: 15-Jan-02										
Benzene	19.7	0.50	ug/l	20.0	ND	98	70-130	7	20	
Toluene	20.5	0.50	"	20.0	ND	102	70-130	8	20	
Ethylbenzene	21.3	0.50	"	20.0	ND	106	70-130	7	20	
Xylenes (total)	63.2	0.50	"	60.0	ND	105	70-130	7	20	
Surrogate: a,a,a-Trifluorotoluene	30.2		"	30.0		101	70-130			



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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2A23016 - EPA 5030B (P/T)										
Blank (2A23016-BLK1)					Prepared & Analyzed: 17-Jan-02					
tert-Butyl alcohol	ND	20	ug/l							
Methyl tert-butyl ether (MTBE)	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
tert-Amyl methyl ether	ND	2.0	"							
<i>Surrogate: Dibromofluoromethane</i>	57.1		"	50.0		114	50-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	55.0		"	50.0		110	50-150			
LCS (2A23016-BS1)					Prepared & Analyzed: 17-Jan-02					
Methyl tert-butyl ether (MTBE)	44.3	2.0	ug/l	50.0		89	70-130			
<i>Surrogate: Dibromofluoromethane</i>	56.5		"	50.0		113	50-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	56.8		"	50.0		114	50-150			
LCS Dup (2A23016-BSD1)					Prepared & Analyzed: 17-Jan-02					
Methyl tert-butyl ether (MTBE)	42.8	2.0	ug/l	50.0		86	70-130	3	200	
<i>Surrogate: Dibromofluoromethane</i>	53.5		"	50.0		107	50-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	52.6		"	50.0		105	50-150			

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**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2A28011 - General Preparation										
Blank (2A28011-BLK1)				Prepared & Analyzed: 24-Jan-02						
Total Alkalinity	ND	1.1	mg/l							
LCS (2A28011-BS1)				Prepared & Analyzed: 24-Jan-02						
Total Alkalinity	102	1.1	mg/l	100		102	80-120			
Matrix Spike (2A28011-MS1)				Source: W201190-02		Prepared & Analyzed: 24-Jan-02				
Total Alkalinity	1390	11	mg/l	1000	390	100	75-125			
Matrix Spike Dup (2A28011-MSD1)				Source: W201190-02		Prepared & Analyzed: 24-Jan-02				
Total Alkalinity	1390	11	mg/l	1000	390	100	75-125	0	20	



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**Anions by EPA Method 300.0 - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2A17005 - General Preparation										
Blank (2A17005-BLK1)				Prepared & Analyzed: 15-Jan-02						
Sulfate as SO4	ND	0.23	mg/l							
LCS (2A17005-BS1)				Prepared & Analyzed: 15-Jan-02						
Sulfate as SO4	11.1	0.23	mg/l	10.0		111	80-120			
Matrix Spike (2A17005-MS1)				Source: W201205-04		Prepared & Analyzed: 15-Jan-02				
Sulfate as SO4	55.5	2.3	mg/l	50.0	2.4	106	75-125			
Matrix Spike Dup (2A17005-MSD1)				Source: W201205-04		Prepared & Analyzed: 15-Jan-02				
Sulfate as SO4	54.9	2.3	mg/l	50.0	2.4	105	75-125	1	20	



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**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2010261 - General Preparation										
Blank (2010261-BLK1)										
Prepared & Analyzed: 14-Jan-02										
Ferrous Iron	ND	0.10	mg/l							
LCS (2010261-BS1)										
Prepared & Analyzed: 14-Jan-02										
Ferrous Iron	0.790	0.10	mg/l	0.800		99	80-120			
Matrix Spike (2010261-MS1)										
Source: W201190-02 Prepared & Analyzed: 14-Jan-02										
Ferrous Iron	0.800	0.10	mg/l	0.870	ND	92	75-125			
Matrix Spike Dup (2010261-MSD1)										
Source: W201190-02 Prepared & Analyzed: 14-Jan-02										
Ferrous Iron	0.826	0.10	mg/l	0.870	ND	95	75-125	3	20	



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Notes and Definitions

- HT-01 This sample was received beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
- Q-28 The opening calibration verification standard was outside acceptance criteria by -16%. Although the Laboratory Control Sample verified the accuracy of the batch, this should be considered in evaluating the data for its intended purpose.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference