

RECEIVED  
PROTECTION  
97 NOV -6 P11 3:47



**Chevron**

October 31, 1997

Mr. Larry Seto  
Alameda County Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**Chevron Products Company**  
6001 Bollinger Canyon Road  
Building L  
San Ramon, CA 94583  
PO Box 6004  
San Ramon, CA 94583-0904

**Marketing - Sales West**  
Phone 510 842-9500

Re: **Former Chevron Service Station #9-0191**  
**900 Otis Drive , Alameda, California**

*STID 598*

Dear Mr. Seto:

Enclosed is the Third Quarter Groundwater Monitoring Report for 1997, prepared by our consultant Gettler-Ryan Inc., for the above noted site. Groundwater samples were analyzed for TPH-g, BTEX and MtBE constituents.

Monitoring wells MW-2 and MW-3 were both sampled in this quarter and analyzed for the constituents noted above. The remaining wells were measured for groundwater depth to determine the direction of flow. Monitoring well MW-2 was below method detection limits for all constituents while MW-3 was below method detection limits for the BTEX constituents.

Groundwater depth varied from 2.92 feet to 5.12 feet below grade with a direction of flow northerly.

The latest sampling results, continue to reinforce that this is a low risk site, and does there not appear to be a significant risk to human health and to the environment. **Therefore, Chevron requests that all the wells be abandoned and the site be closed.**

If you have any questions or comments, call me at (510) 842-9136.

Sincerely,  
**CHEVRON PRODUCTS COMPANY**

Philip R. Briggs  
Site Assessment and Remediation Project Manager

Enclosure

October 31, 1997  
Mr. Larry Seto  
Former Chevron Service Station # 9-0191  
Page 2

cc. Ms. Bette Owen, Chevron

Harsch Investment Corp.  
dba South Shore Center  
235 W. MacArthur Boulevard, #63  
Oakland, CA 94611

Mr. Phil Eyring  
Eyring Reality Inc.  
1901 Olympic Blvd., Suite 220  
Walnut Creek, CA 94596-5079

Mr. Kevin Graves  
RWQCB-San Francisco Bay Region  
2101 Webster Street, Suite 500  
Oakland, CA 94612



# GETTLER-RYAN Inc.

ENVIRONMENTAL  
PROTECTION

97 NOV -6 PM 3:48

October 17, 1997

Job #6324.80

Mr. Phillip Briggs  
Chevron Products Company  
P.O. Box 6004  
San Ramon, CA 94583

Re: Third Quarter Groundwater Monitoring & Sampling Report  
Former Chevron Service Station #9-0191  
900 Otis Drive  
Alameda, California

Dear Mr. Briggs:

This report documents the quarterly groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On September 16, 1997, field personnel were on-site to monitor six wells (MW-2 through MW-7) and sample two wells (MW-2 and MW-3) at the Former Chevron Service Station #9-0191 located at 900 Otis Drive in Alameda, California.

Static groundwater levels were measured on September 16, 1997. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the wells. Static water level data and groundwater elevations are presented in Table 1. A Potentiometric Map is included as Figure 1.

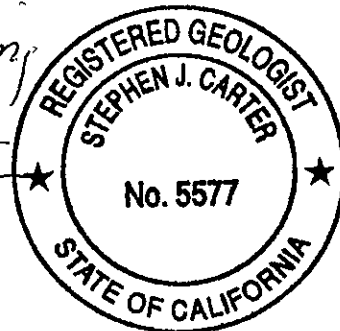
Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets for this event are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are presented in Table 1. The chain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

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

Sincerely,

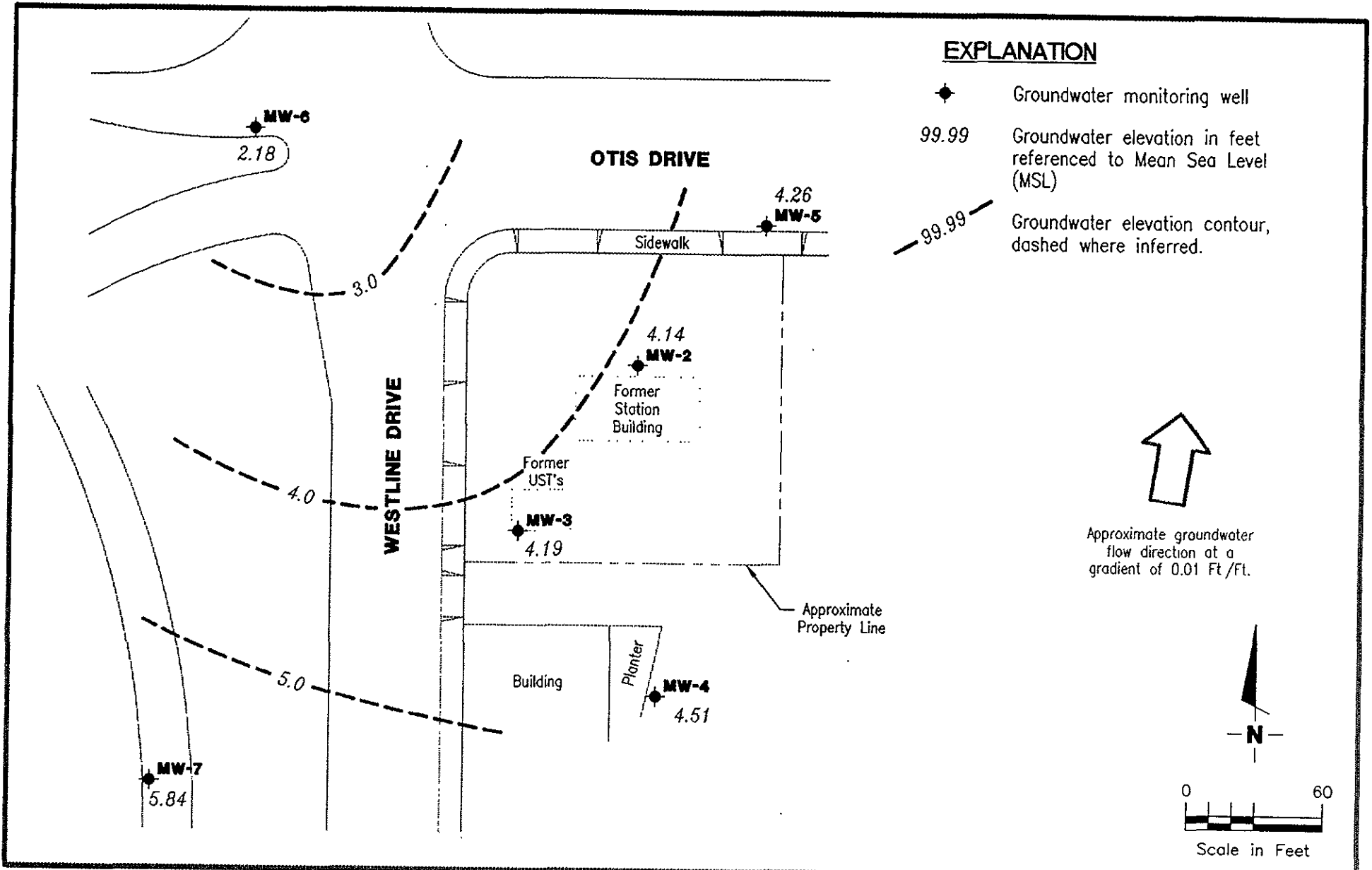
*Deanna L. Harding*  
Deanna L. Harding  
Project Coordinator

*Stephen J. Carter*  
Stephen J. Carter  
Senior Geologist, R.G. No. 5577



DLH/SJC/alh  
6324.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



**Gertler - Ryan Inc.**

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

**POTENTIOMETRIC MAP**

Former Chevron Service Station No. 9-0191  
900 Otis Drive  
Alameda, California

FIGURE

**1**

JOB NUMBER  
6324

REVIEWED BY

DATE

September 16, 1997

REVISED DATE



Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-0191, 900 Otis Drive, Alameda, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	ppb				
						B	T	E	X	MTBE
MW-2/ 9.17	2/8/96	2.75	6.42	—	94	ND	ND	ND	ND	—
	6/27/96	4.99	4.18	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	9/3/96	5.21	3.96	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	12/3/96	4.54	4.63	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	3/5/97	4.09	5.08	0	—	—	—	—	—	—
	6/3/97	4.91	4.26	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	9/16/97	5.03	4.14	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
MW-3/ 7.11	2/8/96	1.36	5.75	—	460	26	ND	5.8	ND	—
	6/27/96	3.22	3.89	0	130 <sup>1</sup>	<0.50	<0.50	<0.50	0.51	16
	9/3/96	3.08	4.03	0	160 <sup>2</sup>	<0.50	<0.50	<0.50	<0.50	<2.5
	12/3/96	2.68	4.43	0	260 <sup>2</sup>	4.3	<0.50	0.62	<0.50	50
	3/5/97	2.40	4.71	0	310 <sup>2</sup>	11	0.55	<0.50	<0.50	6.7
	6/3/97	3.04	4.07	0	260 <sup>1</sup>	<0.50	<0.50	<0.50	<0.50	10
	9/16/97	2.92	4.19	0	160 <sup>1</sup>	0.50	<0.50	<0.50	<0.50	<2.5
MW-4/ 7.78	2/8/96	1.32	6.46	—	ND	ND	ND	ND	ND	—
	6/28/96	2.99	4.79	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	9/3/96	3.50	4.28	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	12/3/96	2.95	4.83	0	—	—	—	—	—	—
	3/5/97	2.55	5.23	0	—	—	—	—	—	—
	6/3/97	3.27	4.51	0	—	—	—	—	—	—
	9/16/97	3.27	4.51	0	—	—	—	—	—	—
MW-5/ 7.37	2/8/96	0.75	6.62	—	ND	ND	ND	ND	ND	—
	6/27/96	2.66	4.71	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	9/3/96	3.29	4.08	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	12/3/96	2.66	4.71	0	—	—	—	—	—	—
	3/5/97	2.98	4.39	0	—	—	—	—	—	—
	6/3/97	2.78	4.59	0	—	—	—	—	—	—
	9/16/97	3.11	4.26	0	—	—	—	—	—	—
MW-6/ 7.30	2/8/96	2.10	5.20	—	ND	ND	ND	ND	ND	—
	6/27/96	3.98	3.32	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	9/3/96	3.50	3.80	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	12/3/96	3.31	3.99	0	—	—	—	—	—	—
	3/5/97	3.15	4.15	0	—	—	—	—	—	—
	6/3/97	3.59	3.71	0	—	—	—	—	—	—
	9/16/97	5.12	2.18	0	—	—	—	—	—	—



Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-0191, 900 Otis Drive, Alameda, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	←-----ppb----->				
						B	T	E	X	MTBE
MW-7/ 9.58	2/8/96	3.24	6.34	—	ND	ND	ND	ND	ND	—
	6/27/96	5.07	4.51	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	9/3/96	5.29	4.29	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	12/3/96	4.95	4.63	0	—	—	—	—	—	—
	3/5/97	4.36	5.22	0	—	—	—	—	—	—
	6/3/97	5.07	4.51	0	—	—	—	—	—	—
	9/16/97	3.74	5.84	0	—	—	—	—	—	—
Trip Blank	6/27/96	—	—	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	9/3/96	—	—	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	12/3/96	—	—	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	3/5/97	—	—	—	—	—	—	—	—	—
	6/3/97	—	—	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	9/16/97	—	—	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5

**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  
 B = Benzene  
 T = Toluene  
 E = Ethylbenzene  
 X = Xylenes  
 MTBE = Methyl tertiary-butyl ether  
 ppb = Parts per billion  
 ND = Not-Detected  
 — = Not analyzed/Not applicable

**ANALYTICAL METHODS:**

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

**NOTES:**

Water level elevation data and laboratory analytical results prior to June 27, 1996, were compiled from Quarterly Monitoring Reports prepared for Chevron by Pacific Environmental Group.

\* Product thickness was measured on and after June 27, 1996, with a MMC Flexi-Dip interface probe.

<sup>1</sup> Laboratory report indicates unidentified hydrocarbons C6-C12.

<sup>2</sup> Laboratory report indicates unidentified hydrocarbons < C8.



## 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 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 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**

Chevron Facility # 9-0191

Job#: 6324.80

Address: 900 Otis Drive

Date: 9-16-97

City: Alameda, CA

Sampler: F. Cline

Well ID MW-2

Well Condition: okay

Well Diameter 2" in.

Hydrocarbon Thickness: \_\_\_\_\_ in. Amount Bailed (product/water): \_\_\_\_\_ (gal.)

Total Depth 15 ft.

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

Depth to Water 5103 ft.

9.97 X VF 0.17 = 1.7 X 3 (case volume) = Estimated Purge Volume: 5108 (gal.)

Purge Equipment: Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 19:44

Weather Conditions: Clear cool

Sampling Time: 19:52

Water Color: Brown/Grey Odor: None

Purging Flow Rate: \_\_\_\_\_ gpm.

Sediment Description: 1751 silt sand

Did well de-water? NO

If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>7:46</u>	<u>1.7</u>	<u>8.170</u>	<u>466</u>	<u>22.5</u>			
<u>7:48</u>	<u>3.4</u>	<u>8.32</u>	<u>508</u>	<u>22.4</u>			
<u>7:52</u>	<u>5.1</u>	<u>8.30</u>	<u>505</u>	<u>22.5</u>			
_____	_____	_____	_____	_____	_____	_____	_____

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3 x 40m/VQA</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH-Gas/BTEX/MTBE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Chevron Facility # 9-0191  
 Address: 900 Otis Drive  
 City: Alameda, CA

Job#: 6324.80  
 Date: 6-19-97  
 Sampler: E. Cline

Well ID: MW-3 Well Condition: ok okay  
 Well Diameter: 2" in. Hydrocarbon Amount Bailed  
 Thickness: \_\_\_\_\_ in. (product/water): \_\_\_\_\_ (gal.)  
 Total Depth: 14 ft.  
 Depth to Water: 2.92 ft.  

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

11.08 X VF 0.17 = 1.9 X 3 (case volume) = Estimated Purge Volume: 565 (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 7:57  
 Sampling Time: 8:04  
 Purging Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? Ne

Weather Conditions: clear cool  
 Water Color: Brown Odor: nu  
 Sediment Description: light silty sand  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>7:59</u>	<u>2</u>	<u>7.50</u>	<u>647</u>	<u>23.3</u>			
<u>8:01</u>	<u>3</u>	<u>7.56</u>	<u>647</u>	<u>23.6</u>			
<u>8:04</u>	<u>6</u>	<u>7.56</u>	<u>645</u>	<u>23.5</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 x 40m/VOA</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH-Gas/BTEX/MTBE</u>

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Chevron Facility # 9-0191  
 Address: 900 Otis Drive  
 City: Alameda, CA

Job#: 6324.80  
 Date: 9-16-97  
 Sampler: E.Cline

Well ID MW- 4  
 Well Diameter 2" in.  
 Total Depth \_\_\_\_\_ ft.  
 Depth to Water 3.27 ft.

Well Condition: dry

Hydrocarbon Thickness:	<u>0</u> in.	Amount Bailed (product/water):	_____ (gal.)
Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

\_\_\_\_\_ X VF \_\_\_\_\_ = \_\_\_\_\_ X 3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ (gal.)

Purge Equipment: Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: \_\_\_\_\_  
 Sampling Time: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	3 x 40m/VOA	Y	HCL	SEQUOIA	TPH-Gas/BTEX/MTBE

COMMENTS: Water level only -

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Chevron Facility # 9-0191

Job#: 6324.80

Address: 900 Otis Drive

Date: 9-16-97

City: Alameda, CA

Sampler: F.Cline

Well ID MW-5

Well Condition: dry

Well Diameter 2" in.

Hydrocarbon Thickness: \_\_\_\_\_ in. Amount Bailed (product/water): \_\_\_\_\_ (gal.)

Total Depth \_\_\_\_\_ ft.

Depth to Water 3.11 ft.

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

\_\_\_\_\_ X VF \_\_\_\_\_ = \_\_\_\_\_ X 3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_

Sampling Time: \_\_\_\_\_

Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_

Purging Flow Rate: \_\_\_\_\_ gpm.

Sediment Description: \_\_\_\_\_

Did well de-water? \_\_\_\_\_

If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	3 x 40m/VOA	Y	HCL	SEQUOIA	TPH-Gas/BTEX/MTBE

COMMENTS: Water level only -

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Chevron Facility # 9-0191  
 Address: 900 Otis Drive  
 City: Alameda, CA

Job#: 6324.80  
 Date: 9-16-97  
 Sampler: E.Cline

Well ID MW-6  
 Well Diameter 2" in.  
 Total Depth \_\_\_\_\_ ft.  
 Depth to Water 5.12 ft.

Well Condition: okay

Hydrocarbon Thickness: \_\_\_\_\_ in. Amount Bailed \_\_\_\_\_ (gal.)

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

\_\_\_\_\_ X VF \_\_\_\_\_ = \_\_\_\_\_ X 3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ (gal.)

Purge Equipment: Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: \_\_\_\_\_  
 Sampling Time: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	3 x 40m/VOA	Y	HCL	SEQUOIA	TPH-Gas/BTEX/MTBE

COMMENTS: Water level only -

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Chevron Facility # 9-0191

Job#: 6324.80

Address: 900 Otis Drive

Date: 9-16-97

City: Alameda, CA

Sampler: E.Cline

Well ID MW- 7

Well Condition: okay

Well Diameter 2" in.

Hydrocarbon Thickness: \_\_\_\_\_ in. Amount Bailed (product/water): \_\_\_\_\_ (gal.)

Total Depth \_\_\_\_\_ ft.

Depth to Water 3.74 ft.

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

\_\_\_\_\_ X VF \_\_\_\_\_ = \_\_\_\_\_ X 3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_

Sampling Time: \_\_\_\_\_

Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_

Purging Flow Rate: \_\_\_\_\_ gpm.

Sediment Description: \_\_\_\_\_

Did well de-water? \_\_\_\_\_

If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
	<u>w/c only</u>						

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	3 x 40m/VOA	Y	HCL	SEQUOIA	TPH-Gas/BTEX/MTBE

COMMENTS: Water level only -

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

Chevron Facility Number #9-0191  
 Facility Address 900 Otis Drive, Alameda, CA  
 Consultant Project Number 6324.80  
 Consultant Name Gettler-Ryan  
 Address 6747 Sierra Ct, Ste J, Dublin 94568  
 Project Contact (Name) Deanna Harding  
 (Phone) 551-7555 (Fax Number) 551-7888

Chevron Contact (Name) Mr. Phil Briggs  
 (Phone) (510) 842-9136  
 Laboratory Name SEQUOIA Service Code: ZZ02790  
 Laboratory Service Order #9033187  
 Samples Collected by (Name) K. Cline  
 Collection Date 9-16-97  
 Signature \_\_\_\_\_

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed <u>9709B60</u>											Remarks				
								TPH Gas + BTEX w/MTBE (8016)	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)								
TB-15	1	2	W	TB		<u>HC</u>	<u>Y</u>	<u>X</u>															
MW-2	2	3	<u>W</u>	G	<u>1998</u>	<u>L</u>	<u>L</u>	<u>X</u>															<u>0 18 4</u>
MW-3	3	3	<u>W</u>	G	<u>2004</u>	<u>L</u>	<u>L</u>	<u>X</u>															

Relinquished By (Signature) _____	Organization <u>G-R Inc.</u>	Date/Time <u>9/17/97</u>	Received By (Signature) <u>D. Harding</u>	Organization <u>G-R Inc.</u>	Date/Time <u>9/18/97</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature) _____	Organization <u>GR</u>	Date/Time <u>9/18/97</u>	Received By (Signature) _____	Organization <u>SA</u>	Date/Time <u>9/18/97</u>	
Relinquished By (Signature) _____	Organization <u>SA</u>	Date/Time <u>9/18/97</u>	Received For Laboratory By (Signature) _____		Date/Time <u>9-18-97 1619</u>	



Gettler Ryan/Geostrategies 6747 Sierra Court Suite G Dublin, CA 94568	Client Proj. ID: Chevron 9-0191, Alameda Sample Descript: TB-LB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9709B60-01	Sampled: 09/16/97 Received: 09/18/97 Analyzed: 09/29/97 Reported: 10/01/97
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QC Batch Number: GC092997BTEX07A  
Instrument ID: GCHP07

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	97

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

  
\_\_\_\_\_  
Mike Gregory  
Project Manager





Gettler Ryan/Geostrategies Client Proj. ID: Chevron 9-0191, Alameda Sampled: 09/16/97  
6747 Sierra Court Suite G Sample Descript: MW-2 Received: 09/18/97  
Dublin, CA 94568 Matrix: LIQUID  
Analysis Method: 8015Mod/8020 Analyzed: 09/26/97  
Attention: Deanna Harding Lab Number: 9709B60-02 Reported: 10/01/97

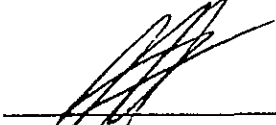
QC Batch Number: GC092697BTEX18A  
Instrument ID: GCHP18

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	71

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

  
Mike Gregory  
Project Manager







Gettler Ryan/Geostrategies 6747 Sierra Court Suite G Dublin, CA 94568	Client Proj. ID: Chevron 9-0191, Alameda Sample Descript: MW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9709B60-03	Sampled: 09/16/97 Received: 09/18/97 Analyzed: 09/29/97 Reported: 10/01/97
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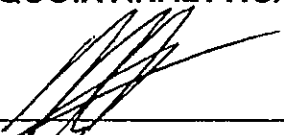
QC Batch Number: GC092997BTEX07A  
 Instrument ID: GCHP07

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	160
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	0.50
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern: Unidentified HC		C6-C12
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	118

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
 Mike Gregory  
 Project Manager





Gettler Ryan/Geostrategies  
 6747 Sierra Court, Ste J  
 Dublin, CA 94568  
 Attention: Deanna Harding

Client Project ID: Chevron 9-0191, Alameda  
 Matrix: Liquid

Work Order #: 9709B60 -01, 03

Reported: Oct 3, 1997

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC092997BTEX07A	GC092997BTEX07A	GC092997BTEX07A	GC092997BTEX07A	GC092997BTEX07A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	9709A9404	9709A9404	9709A9404	9709A9404	9709A9404
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/29/97	9/29/97	9/29/97	9/29/97	9/29/97
Analyzed Date:	9/29/97	9/29/97	9/29/97	9/29/97	9/29/97
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.0	9.2	9.6	29	62
MS % Recovery:	90	92	96	97	103
Dup. Result:	8.8	9.0	9.4	28	61
MSD % Recov.:	88	90	94	93	102
RPD:	2.2	2.2	2.1	3.5	1.6
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK092997	BLK092997	BLK092997	BLK092997	BLK092997
Prepared Date:	9/29/97	9/29/97	9/29/97	9/29/97	9/29/97
Analyzed Date:	9/29/97	9/29/97	9/29/97	9/29/97	9/29/97
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.8	8.9	9.3	28	61
LCS % Recov.:	88	89	93	93	102

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

**Please Note:**  
 The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

**SEQUOIA ANALYTICAL**

Mike Gregory  
 Project Manager

\*\* MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9709B60.GET <1>





Gettler Ryan/Geostrategies  
6747 Sierra Court, Ste J  
Dublin, CA 94568  
Attention: Deanna Harding

Client Project ID: Chevron 9-0191, Alameda  
Matrix: Liquid

Work Order #: 9709B60-02

Reported: Oct 3, 1997

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC092697BTEX18A	GC092697BTEX18A	GC092697BTEX18A	GC092697BTEX18A	GC092697BTEX18A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	R. Geckler	R. Geckler	R. Geckler	R. Geckler	R. Geckler
MS/MSD #:	9709A3208	9709A3208	9709A3208	9709A3208	9709A3208
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/26/97	9/26/97	9/26/97	9/26/97	9/26/97
Analyzed Date:	9/26/97	9/26/97	9/26/97	9/26/97	9/26/97
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.0	9.6	10	31	60
MS % Recovery:	90	96	100	103	100
Dup. Result:	9.5	10	11	34	63
MSD % Recov.:	95	100	110	113	105
RPD:	5.4	4.1	9.5	9.2	4.9
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK092697	BLK092697	BLK092697	BLK092697	BLK092697
Prepared Date:	9/26/97	9/26/97	9/26/97	9/26/97	9/26/97
Analyzed Date:	9/26/97	9/26/97	9/26/97	9/26/97	9/26/97
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.6	8.8	8.9	28	54
LCS % Recov.:	86	88	89	93	90

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

**Please Note:**

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

**SEQUOIA ANALYTICAL**

Mike Gregory  
Project Manager

\*\* MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9709B60.GET <2>





Gettler Ryan/Geostrategies

6747 Sierra Court Suite G

Dublin, CA 94568

Attention: Deanna Harding

Client Proj. ID: Chevron 9-0191, Alameda

Lab Proj. ID: 9709B60

Received: 09/18/97

Reported: 10/01/97

### LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 7 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Mike Gregory  
Project Manager



# CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)

03/27/92

**PRODUCER**  
**Woodruff-Sawyer & Co.**  
 220 Bush Street  
 7th Floor  
 San Francisco, CA 94104

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

### COMPANIES AFFORDING COVERAGE

- COMPANY LETTER **A**    **Fireman's Fund Ins. Co.**
- COMPANY LETTER **B**    **Republic Indemnity**
- COMPANY LETTER **C**
- COMPANY LETTER **D**
- COMPANY LETTER **E**

**INSURED**  
**Gettler-Ryan Incorporated**  
 2150 West Winton Avenue  
 Hayward, CA 94545-1787

F2

**COVERAGES**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
	<b>GENERAL LIABILITY</b> <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR. <input type="checkbox"/> OWNER'S & CONTRACTOR'S PROT				GENERAL AGGREGATE \$ PRODUCTS-COMP/OP AGG. \$ PERSONAL & ADV. INJURY \$ EACH OCCURRENCE \$ FIRE DAMAGE (Any one fire) \$ MED. EXPENSE (Any one person) \$
<b>A</b>	<b>AUTOMOBILE LIABILITY</b> <input type="checkbox"/> ANY AUTO <input checked="" type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS <input type="checkbox"/> GARAGE LIABILITY	<b>S95MZA80114710</b>	<b>04/01/92</b>	<b>04/01/93</b>	COMBINED SINGLE LIMIT \$ <b>1,000,000</b> BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE \$
	<b>EXCESS LIABILITY</b> <input type="checkbox"/> OTHER THAN UMBRELLA FORM				EACH OCCURRENCE \$ AGGREGATE \$
<b>B</b>	<b>WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY</b>	<b>92)PC941426</b>	<b>04/01/92</b>	<b>04/01/93</b>	STATUTORY LIMITS EACH ACCIDENT \$ <b>1,000,000</b> DISEASE—POLICY LIMIT \$ <b>1,000,000</b> DISEASE—EACH EMPLOYEE \$ <b>1,000,000</b>
	<b>OTHER</b>				

**DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS**  
 Re: Facility #2169, 889 W. Grand Avenue, Oakland, CA

**CERTIFICATE HOLDER**  
**County of Alameda, Dept. of Environmental Health**  
 100 Swan Way, Room 200  
 Oakland, CA 94621

**CANCELLATION**  
 SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ~~SEND BY~~ MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, ~~BY FAX OR BY TELEPHONE TO THE CERTIFICATE HOLDER'S HOME OR BUSINESS ADDRESS OR BY MAIL TO THE CERTIFICATE HOLDER'S HOME OR BUSINESS ADDRESS.~~  
 AUTHORIZED REPRESENTATIVE