

September 22, 1994

Mr. Robert Mibach Peralta Community College District 333 East 8th Street Oakland, CA 94606

RE: Quarterly Groundwater Sampling

Peralta Maintenance Yard, 501 5th Avenue, Oakland, California

Dear Mr. Mibach:

The enclosed report describes the procedures used during quarterly groundwater sapling at the Peralta Maintenance Yard, Oakland, California. This work was performed to evaluate the extent of groundwater contamination.

Groundwater samples were collected from the four on-site monitoring wells and sumitted to Chromalab, Inc. for petroleum hydrocarbon analyses, in accordance with the "Tri Regional Guidelines for Underground Storage Tank Sites".

Analysis of the groundwater samples from monitoring well MW-1 and MW-4indicated below detectable levels of petroleum hydrocarbons. Groundwater samples from monitoring wells MW-2 and MW-3 indicated detectable concentrations of hydrocarbons.

If you have any comments regarding this report, please call me.

Sincerely,

Misty C Kaltreider

Geologist

cc: Mr. Thomas Peacock - Alameda County Health Care Services - Division of Hazardous Materials



## QUARTERLY GROUNDWATER INVESTIGATION

### PERALTA COMMUNITY COLLEGE - MAINTENANCE YARD 501 5TH AVENUE OAKLAND, CALIFORNIA, 94606

Prepared for:

Mr. Thomas Peacock
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Division of Hazardous Materials

September 1994

Prepared by:

Misty Kaltreider Project Geologist

Reviewed by:

Christopher M. Palmer, CEG #1262 Certified Engineering Geologist

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OF CALL



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#### 1.0 INTRODUCTION

This report presents the procedures and findings of quarterly groundwater investigation conducted by ACC Environmental Consultants, Inc., ("ACC") on behalf of the Peralta Community College District, site owner at 501 5th Avenue, Oakland, California. The project objective, as described in the Work Plan prepared on April 27, 1993, was to evaluate the extent of groundwater impact from the previous underground storage of petroleum products using the four monitoring wells on-site.

#### 2.0 BACKGROUND

Five underground storage tanks were installed prior to the 1960's. The tanks were used for storage of fuel and waste oil for the City of Oakland Corporation Yard. The tanks consisted of two 6,000-gallon gasoline, one 2,000-gallon diesel, one 2,000-gallon ethyl (premium) gasoline and one 550-gallon waste oil tank. In 1980 Peralta Community College District acquired the property. The District abandoned the existing five underground tanks by filling with water and installed three fiberglass underground storage tanks. The new tanks consisted of two 6,000-gallon and one 4,000-gallon fiberglass tanks to store gasoline. The new tanks were installed approximately 150 feet from the original tanks.

In 1992, the five originals underground storage tanks were removed. A total of eight soil samples and one grab groundwater sample was collected from the excavation. Laboratory analysis of the soil indicated up to 228 parts per million (ppm) of Total Petroleum Hydrocarbons (TPH) as diesel, 134 ppm to TPH as gasoline, 2,407 parts per billion (ppb) benzene, 4,617 ppb toluene, 7,170 ppb ethylbenzene, 6,147 ppb total xylenes and 5,477 ppm oil and grease. Laboratory analysis of the water collected in the excavation indicated 170 ppm TPH as diesel, 15 ppm TPH as gasoline, 286 ppb benzene, 698 ppb toluene, 300 ppb ethylbenzene, 808 ppb total xylenes and 284 ppm oil and grease.

In September 1992, a preliminary study was performed by Environ of Emeryville to evaluate the soil and groundwater conditions on the site and on neighboring sites. This study indicated that hydrocarbons constituents are regional.

In November of 1992, ACC performed a site assessment of the soil around the former tank excavation. Hydrocarbons as gasoline and motor oil were observed in the soil and groundwater collected from the borings. Laboratory analysis of the soil indicated up to 370 ppm of TPH as gasoline, 12 ppm TPH as diesel, 5,342 ppm motor oil, 76.94 ppm benzene, 73.9 ppm toluene, 30.4 ppm ethylbenzene, and 95.41 ppm xylenes.

In November 1993, three underground gasoline tanks were removed from the property. Soil samples collected from the excavation indicated up to 1.3 ppm TPH as gasoline, 190 ppb benzene, and 18 ppb toluene. Initial groundwater sample collected from the excavation indicated 27 ppm TPH as gasoline, 1,200 ppb benzene, 5,100 ppb toluene, 690 ppb ethylbenzene and 5,700 ppb xylenes.

Approximately 3,500 gallons of water was removed from the excavation. Subsequent groundwater sample was collected. Analysis of the second groundwater sample from the excavation indicated .21 ppm TPH as gasoline, and 14 ppb xylenes.

Due to the detectable levels reported in the soil and groundwater on-site, additional groundwater investigations were required from the regulatory agencies.

In February, 1994, four additional borings (MW-1, MW-2, MW-3 and MW-4) were drilled and converted into 2-inch monitoring wells, on-site. The monitoring wells were used to evaluate the extent of contamination from the two tank excavations.

Laboratory analysis of the groundwater samples collected in February 1994 from monitoring wells MW-1 and MW-4 (down gradient from the tank excavations) indicated below detectable levels of the constituents evaluated. The groundwater results indicated a downgradient extent of groundwater contamination. Laboratory analysis of groundwater collected from monitoring wells MW-2 and MW-3 (upgradient of the former tank excavations) indicated detectable levels of constituents. Samples collected from borings MW-2 and MW-3 indicated detectable levels of TPH as diesel, TPH as gasoline with BTEX. Motor oil was reported in the soil from boring MW-2. However, the motor oil was not detected in the groundwater sample from monitoring well MW-2 and therefore motor oil does not appear to impact the groundwater. TPH as diesel was only detected in the soil from boring MW-2.

An additional soil and groundwater investigation was conducted on May 9, 1994, to evaluate possible upgradient sources on-site. The investigation included drilling five borings upgradient (east) of existing monitoring wells MW-2 and MW-3.

Laboratory analysis of the soil samples collected indicate detectable levels of diesel up to 11 ppm. Detectable levels of motor oil up to 100 ppm, were reported in soil analyzed from the additional investigation. Below detectable levels of TPH as gasoline, BTEX and kerosene were reported in the soil samples analyzed.

Groundwater was encountered approximately 5 to 6 feet below ground surface (bgs). Laboratory analysis of the groundwater samples collected from the open boreholes, indicated below detectable levels of diesel, kerosene, motor oil and BTEX. Detectable levels of TPH as gasoline up to 61 parts per billion (ppb) were reported in one grab groundwater sample.

Motor oil was not detected in the groundwater samples collected from the borings, therefore motor oil does not appear to currently impact the groundwater.

Results of the analytical data from previous investigations indicate that upgradient sources of TPH and motor oil exist. Finer fill material and Bay Mud appear to restrict the mobility of the contaminates from impacting groundwater. However, groundwater flow direction data suggests that contaminant movement is to the westerly direction, toward the monitoring wells MW-2 and MW-3 on site.

#### 3.0 SITE DESCRIPTION

The site consists of several warehouse/office buildings surrounded by a fenced parking lot. The older tanks were situated within the fenced yard adjacent to the northern entrance, the newer tanks were situated near the southern entrance (Figure 2).

#### 4.0 FIELD PROCEDURES

#### 4.1 Groundwater Sampling

Groundwater samples were taken on August 25, 1994 from monitoring wells MW-1, MW-2, MW-3 and MW-4. Prior to groundwater sampling the depth to the surface of the water table was measured from the top of the PVC casing using a Solinst Water Level Meter.

Information regarding well elevations and groundwater level measurements is summarized in Table 1.

**TABLE 1 - Groundwater Depth Information** 

Well No.	Date Sampled	TOC Elevation	Depth to Groundwater (Ft)	Groundwater Elevation (Ft.)
<u>MW-1</u>	02/14/94 05/16/94 08/25/94	6.78 MSL	3.69 6.80 7.05	3.09 -0.02 -0.27
<u>MW-2</u>	02/14/94 05/16/94 08/25/94	8.70 MSL	4.70 4.74 5.49	4.00 3.96 3.21
<u>MW-3</u>	02/14/94 05/16/94 08/25/94	8.83 MSL	4.57 4.78 5.93	4.26 4.05 2.90
<u>MW-4</u>	02/14/94 05/16/94 08/25/94	5.45 MSL	1.69 2.36 3.25	3.76 3.09 2.20

Notes: All measurements in feet

MSL = Mean Sea Level

TOC = Top of Casing

After water-level measurements were taken, each on-site well was purged by hand using a designated precleaned disposable Teflon bailer for each well. Groundwater pH, temperature and electrical conductivity were monitored during well purging. Each well was considered to be purged when these parameters stabilized. Three to four well volumes were removed to purge each well. Worksheets of conditions monitored during purging are attached in Appendix C.

After the groundwater level had recovered to a minimum of approximately 80 percent of its static level, water samples were obtained using designated disposable Teflon bailers. Two 40 ml VOA vials, without headspace, and two 1-liter amber jars were filled from the water collected from each monitoring well.

The samples were preserved on ice and submitted to Chromalab Inc. under chain of custody protocol. Laboratory results with chain of custody forms are attached in Appendix B.

#### 5.0 FINDINGS

#### 5.1 Analytical Results - Groundwater

One groundwater sample each from monitoring wells MW-1, MW-2, MW-3, and MW-4 was collected and submitted to Chromalab for analysis for TPH as gasoline by EPA test method 5030 and BTEX by EPA test method 602 and TEPH as diesel, kerosene, and motor oil by EPA Test Method 8015-Modified. Analysis results from the groundwater samples are summarized in Table 3. Analytical results are attached in Appendix B.

TABLE 2 - Analytical Results - Groundwater

Well No.	Date Sampled	TPH-g (ppb)	TEPH (ppb)	Benzene (ppb)	Toluene (ppb)	E.benzen e (ppb)	Xylene (ppb)
MW-1	02/14/94	< 50	< 50	< 0.5	< 0.5	<0.5	< 0.5
	05/23/94	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5
	08/25/94	< 50	NT	< 0.5	< 0.5	< 0.5	< 0.5
MW-2	02/14/94	200	< 50	1.7	< 0.5	1.1	1.1
	05/23/94	600	< 50	1.8	0.9	0.7	2.1
	08/25/94	70	NT	< 50	< 0.5	< 0.5	0.5
MW-3	02/14/94	780	< 50	0.6	0.6	1.7	2.7
	05/23/94	680	< 50	< 0.5	< 0.5	2.2	2.2
	08/25/94		NT	444	2.7	1.9	4.1
MW-4	02/14/94	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5
	05/23/94	93	< 50	< 0.5	< 0.5	< 0.5	< 0.5
	08/29/94	< 50	NT	< 0.5	< 0.5	< 0.5	< 0.5

Notes: TPH-g = Total Petroleum Hydrocarbons as gasoline

TEPH = Total Extractable Petroleum Hydrocarbons as diesel, kerosene, and motor oil

ppb = parts per billion

NT = Not tested

#### 5.2 Groundwater Gradient

Prior to calculating the groundwater gradient, elevations for the on-site monitoring wells were surveyed by Ron Archer Civil Engineer, Inc. to an accuracy of one-hundredth of a foot. The well elevations were surveyed at the top of the PVC well casing. The elevations of the monitoring wells were established relative to a nearby benchmark located in the intersection of 7th Street and 5th Avenue.

The groundwater gradient was calculated using the on-site monitoring wells. The location of the wells is shown on Figure 1 - Site Plan. Groundwater elevations were collected from the wells on August 25, 1994. The gradient was evaluated by triangulation using the elevation of the potentiometric surface measured with respect to Mean Sea Level datum. As shown in Figure 2, general direction of flow is west at a gradient of 0.031 foot per foot.

#### 6.0 CONCLUSION

The data and observations discussed herein indicate that groundwater has been impacted due to an unauthorized hydrocarbon release. The analytical parameters used for groundwater sampling performed were in accordance with the guidance document "Tri-Regional Water Quality Control Boards Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites", dated August 10, 1990.

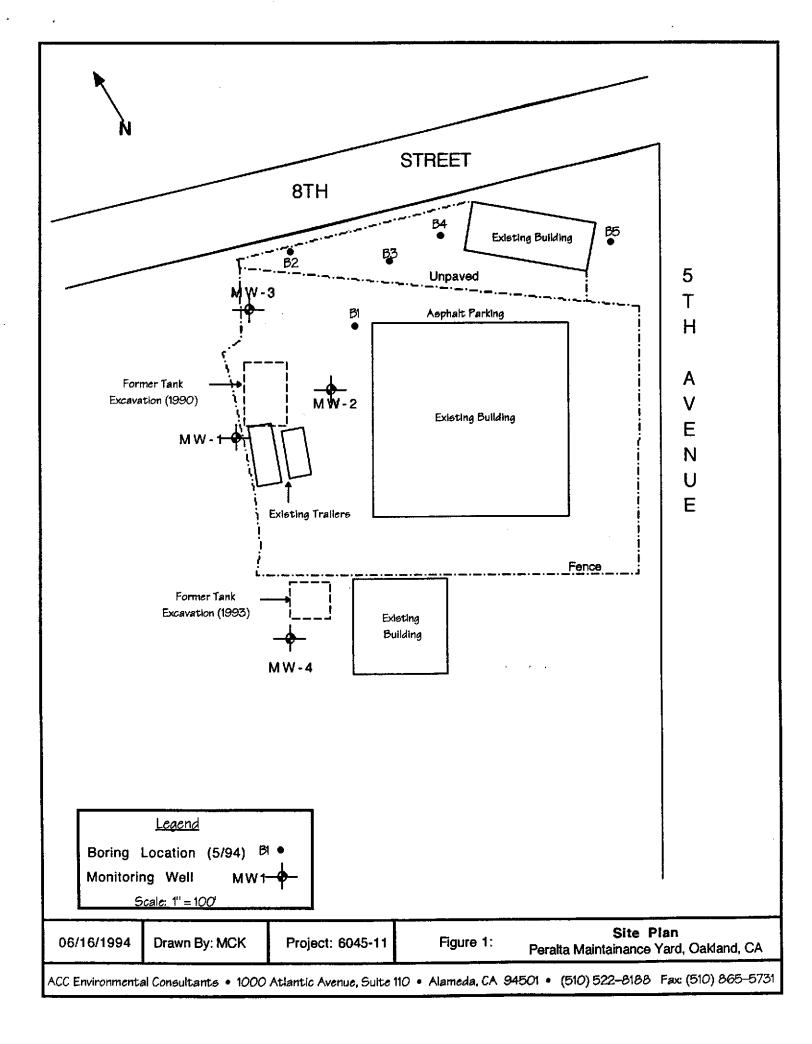
The initial groundwater investigation conducted in February 1994 and the additional subsurface investigation conducted in August 1994 indicated detectable levels of TPH as diesel and motor oil in the soil, upgradient (east) of the former underground storage tank excavations.

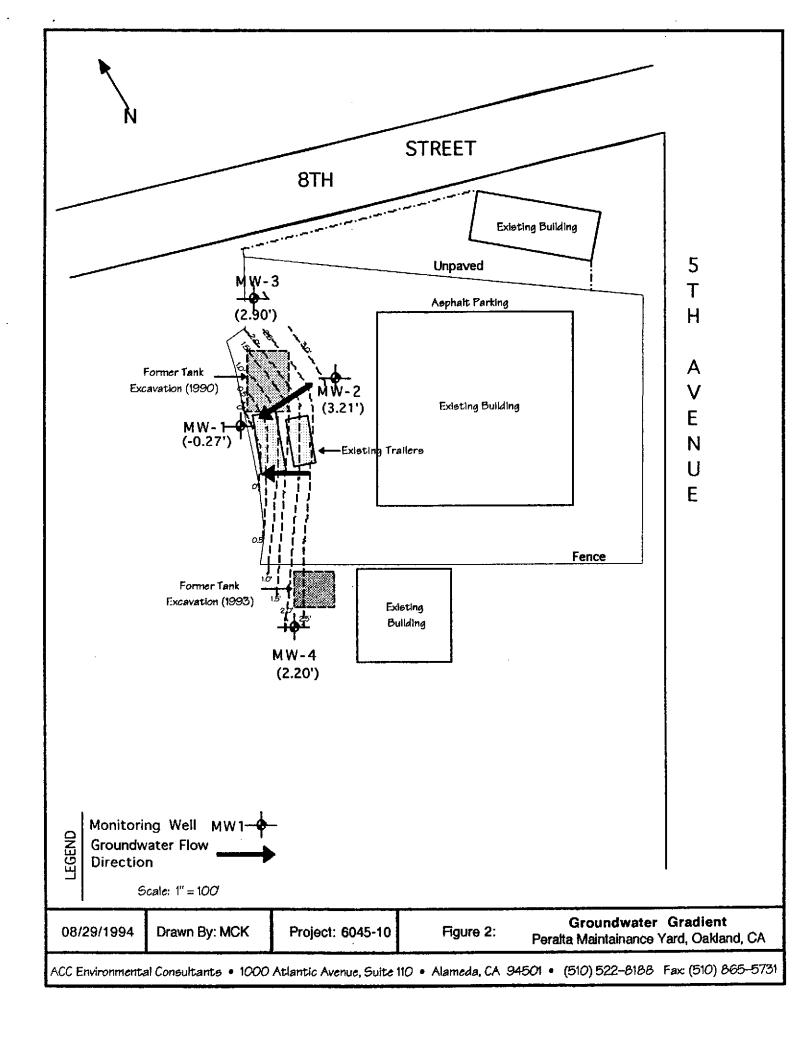
Laboratory analysis of the groundwater samples collected from monitoring wells and open boreholes indicated below detectable levels of Total Extractable Petroleum Hydrocarbons (TEPH) as diesel, motor oil and kerosene, therefore TEPH apparently do not impact the groundwater.

The groundwater results indicate that hydrocarbon release from the former underground storage tanks onsite does not impact the groundwater. Laboratory results collected from the downgradient monitoring wells (MW-1 and MW-4) indicated below detectable levels of constituents. Laboratory analysis of groundwater collected from monitoring wells MW-2 and MW-3 (upgradient of the former tank excavations) indicated detectable levels of constituents indicating upgradient source(s). Historic observations indicate that the contamination upgradient is not mobile and ACC anticipates a decline in concentrations over time.

#### 7.0 RECOMMENDATIONS

Pursuant to the Tri-Regional Board guidelines, groundwater sampling and monitoring of the on-site wells should continue on a quarterly basis.





	,			
Weil Samplin	ng Well D	evelopment	check	cone
Well Number:	MW-			
Job Number:	6048-4			
Job Name:	Paralto			
Date:	8-25-94			
Sampler:	Culbert			
	Depth to Water (mo	easured from TCC	c): <b>5.7.</b> 0	<u>&gt;5</u>
	inside	Diameter of Casin	g:2``	<u></u>
		Depth of Borin	g: <u>14</u>	
	Method of weil de	velopment/purgin	g: pump	
Amai	unt of Water Bailed	•	-	allows - Empfied
	Depth to Water after			well.
•		prior to sampling	71	- waited one hr
	Bailed water store			7 61
	•	volumes removed	ИI	
		•	10 -	+114 
	TSP wash, distilled	rinse, new rope	( ( ) ( ) ( )	<u></u>
Water Appearance:  yes  yes  rridesence	s ro/		·	
smell V			Samples Obtained:	<del></del>
oroduct other, describe			TPH (gasoline) TPH (diesel)	
Gailons Removed DH			TPH (motor oil) STXE	
5 16,50			EPA 624	
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20 16.90			EPA 608 PCBs only	<del>  </del>
	1,05 6.5		Metals	
30 6.85	11.09 (dbT		Other, specify	
40			Field Blank	
4.5		•	•	
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Well Sampling Well Development	check one
Well Number: Mw-2	
Job Number: 6045-4	
Job Name: Paralla	•
Date: 6-25-94	
Sampler: Culhert	•
Depth to Water (measured from TC	:c;: <u>5.49</u>
Inside Diameter of Casi	•
Depth of Boria	
Method of well development/purgit	ng: Pump
Amount of Water Bailed/Pumped from wi	
Depth to Water after well developme	nt:
	ng: 12.82'-1 hr after pumped
Bailed water stored on-site ? How	? Drums
Number of well volumes remove	d: 4
TSP wash, distilled rinse, new rope	750/D. 411ed
Water Appearance:  roth rridesence pil smell product ether, describe	Samples Obtained:  TPH (gascrine) TPH (dieser)
Eallors Removed   CH   E   Templ   5	TPH (motor oii)  STXE  EPA 624  EPA 625  EPA 608  PCEs only  Metals  Cther, specify  Field Blank
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Well Sampling Well Developmen	nt check one
Well Number: MW-3	
Inh Number: 6645-4	
Job Name: Panta.	
Date: 6-25-94	•
Sampler: wibut	C 9121
Depth to Water (measured fro	om TCC):
Inside Diameter o	f Casing: 2
Depth o	of Boring: 14"
	Pinoled -
Amount of Water Bailed/Pumped fr	cm well: 68allows - pumped Dry
Depth to Water after well deve	
Depth to water prior to sa	ampling: 5.90 \
Bailed water stored on-site ?	
Number of well valumes re	
TSP wasn, distilled rinse, new	rope ?
Water Appearance:	
froth ves ro	
irridesence	
cil smell	Samples Obtained:
product	
other, describe	TPH (gasoline)
	TPH (diesel)
Gailons Removed   CH   E   Temp  5   14.50   1.10   64.1	TPH (motor cil)
	EPA 624
10 16.60 1.40 (4.2)	EPA 625
20 16.66 1.35 64.0	EPA 608
25	PCEs only
30	Metals
35	Other, specify
40	Field Blank
45	
50	

Well Sampling Well Development	check one
Well Number: MW-4	
Job Number: 6045-4	
Job Name: Paralla	
Date: 8-25-94	
Sampler: Culbert	
Depth to Water (measured from TCC):	P3 3.25
Inside Diameter of Casing:	
Depth of Boring:	14'
Method of well development/purging:_	puno
Amount of Water Bailed/Pumped from well:_	7.2 g
Depth to Water after well development:_	
Depth to water prior to sampling:_	5,55'
Bailed water stored on-site ? How ?_	Drums
Number of well volumes removed:	4
TSP wash, distilled rinse, new rope ?	TSPPISTUREd
product other, describe	emples Cotained: PH (gaspline) PH (diesel)
5   4.71   1.60   64.1   ET   1.60   64.1   ET   1.60   64.1   ET   1.60   64.1   ET   1.60   63.2   ET   1.50   63.2   ET   1.	PH (motor oii)  XE  PA 624  PA 625  PA 608  PA

## CHROMALAB, INC.

**Environmental Services (SDB)** 

September 6, 1994

Submission #: 9408357

ACC ENVIRONMENTAL CONSULTANTS

Atten: Misty Kaltreider

Project: PARALTO

Project#: 6045-4

Received: August 29, 1994

re: 4 samples for Gasoline and BTEX analysis

Matrix: WATER

Sampled: August 25, 1994

Analyzed: September 2, 1994

Method: EPA 5030/M.8015/602

#### RESULTS:

Sample #	Client Sample I.D.	Gasoline (mg/L)	Benzene (µq/L)	Toluene	Ethyl Benzene (µg/L)	Total Xylenes (µq/L)
						<del></del>
61376	MW1	N.D.	N.D.	N.D.	N.D.	N.D.
61377	MW2	0.07	N.D.	N.D.	N.D.	0.5
61378	MW3	0.31	6.4	2.7	1.9	4.1
61376	MW4	N.D.	N.D.	N.D.	N.D.	N.D.
Blank		N.D.	N.D.	N.D.	N.D.	N.D.
Blank S	pike Recover	ry (%) 87	100	113	110	114
	ng Limit	0.05	0.5	0.5	0.5	0.5

ChromaLab, Inc.

Bill Thach

Analytical Chemist

Ali Kharrazi Organic Manager

ali Kho

kv

SUBM #: 9408357

CLIENT: ACC

09/06/94 DUE:

REF #:18161

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# CHROMALAB, INC.

**DOHS 1094** 

2239 Omega Road, #1 510/831-1788

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