

June 18, 1993

Alameda County Health Agency Department of Environmental Health 80 Swan Way, Room 200 Oakland, California 94621

1059

Attention:

Mr. Barney Chan

Reference:

UNOCAL Service Station No. 5325

3220 Lakeshore Avenue Oakland, California 94610

Mr. Chan:

As requested by Mr. Tim Howard of UNOCAL Corporation, we are forwarding a copy of the Quarterly Monitoring Report dated June 18, 1993, prepared for the above referenced location. This report presents the results of the first quarter 1993 groundwater monitoring and sampling.

If you should have any questions or comments, please call.

Sincerely,

Cliff M. Garratt Project Manager

CMG:rt

Enclosure

cc: Mr. Tim Howard, UNOCAL Corporation

Mr. Richard Hiett, Regional Water Quality Control Board

:ellenu\814final.wp



QUARTERLY MONITORING REPORT

UNOCAL Service Station #5325 3220 Lakeshore Avenue Oakland, California



June 18, 1993

UNOCAL Corporation P.O. Box 5155 San Ramon, California 94583

Attn: Mr. Tim Howard

Re: QUARTERLY MONITORING REPORT

UNOCAL Service Station #5325

3220 Lakeshore Avenue

Oakland, California

Mr. Howard:

This Quarterly Monitoring Report has been prepared by GeoStrategies Inc. (GSI) and presents the results of the 1993 first quarter sampling for the above-referenced site (Plate 1).

There are currently three monitoring wells at the site; Wells U-1, U-2, and U-3 (Plate 2). These wells were installed in 1990 by GSI.

CURRENT QUARTER SAMPLING RESULTS

Depth to water measurements were obtained in each monitoring well on February 22, 1993. Static ground-water levels were measured from the surveyed top of the well box and recorded to the nearest ± 0.01 foot. Water-level elevations were referenced to Mean Sea Level (MSL) datum and are presented in Table 1. Water-level data were used to construct a quarterly potentiometric map (Plate 3). Historically, shallow ground-water flow direction has been to the southwest. However, the current groundwater flow direction which is to the southeast, is not consistent with historical norms. This is possibly due to recent heavy rains.

Each well was checked for the presence of floating product. Floating product was not observed in the wells this quarter. The field data sheets are included in Appendix A.

781480-14

Unocal Corporation June 18, 1993 Page 2

Ground-water samples were collected on February 22, 1993. Samples were analyzed for Total Petroleum Hydrocarbons calculated as Gasoline (TPH-Gasoline), according to EPA Method 8015 (Modified) and for Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) according to EPA Method 8020. The ground-water samples were analyzed by Anametrix Inc., a California State-certified laboratory located in San Jose, California. The laboratory analytical report and Chain-of-Custody form are included in Appendix B. These data are summarized and included with the historical chemical analytical data presented in Table 2. A chemical concentration map for benzene is presented on Plate 4. Field methods and procedures were presented in a previous GSI report dated April 28, 1992.

Unocal Corporation June 18, 1993 Page 3

If you have any questions, please call.

GeoStrategies Inc. by,

Ellen. Festermor

Ellen C. Fostersmith

Geologist

Stephen J. Carter Project Manager

RG 5577

ECF/SJC/rmt

Plate 1. Vicinity Map

Plate 2. Site Plan

Plate 3. Potentiometric Map

Plate 4. Benzene Concentration Map

Appendix A: Field Data Sheets

Appendix B: Laboratory Analytical Report and Chain-of-Custody

No. 5577

Form

QC Review:

TABLE 1
FIELD MONITORING DATA

WELL NO.	MONITORING DATE	CASING DIA. (IN)	TOTAL WELL DEPTH (FT)	WELL ELEV. (FT)	DEPTH TO WATER (FT)	PRODUCT THICKNESS (FT)	STATIC WATER ELEV. (FT)	PURGED WELL VOLUMES	ρH	TEMP (F)	CONDUCTIVITY (uHMOS/cm)
U-1	22-Feb-93	3	20.3	5.75	8.66		(-2.91)	5	7.60	66.1	2870
U-2	22-Feb-93	3	20.0	4.94	7.57	****	(-2.63)	2	7.12	67.6	3040
U-3	22-Feb-93	3	20.0	8.14	11.58		(-3.44)	2	7.47	64.6	1527

Notes: 1. Static water elevations referenced to Mean Sea Level (MSL)

2. Physical parameter measurements represent stabilized values.

TABLE 2
HISTORICAL GROUND-WATER QUALITY DATABASE

SAMPLE DATE	SAMPLE POINT	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)
08-Oct-90	U-1	690.	38.	75.	8.6	130.
07-Jan-91	U-1	250.	22.	16.	4.2	17.
01-Apr-91	U-1	160.	13.	8.6	1.0	15.
03-Jul-91	U-1	140	21	4.3	0.36	17
09-Oct-91	Ų-1	<30	< 0.30	< 0.30	< 0.30	< 0.30
12-Feb-92	U-1	250	< 0.30	< 0.30	< 0.30	< 0.30
05-May-92	U-1	230	1.2	< 0.5	< 0.5	< 0.5
20-Aug-92	U-1	400*	1	< 0.5	< 0.5	0.6
06-Nov-92	U-1	1000	80	1.4	6.7	41
22-Feb-93	U-1	34000	1400	5500	910	7300
08-Oct-90	U-2	780.	27.	46.	15.	130.
07-Jan-91	U-2	1900.	67.	5.8	58.	69.
01-Apr-91	U-2	1700.	250.	89.	34.	190.
03-Jul-91	U-2	2100	150	25	3.1	290
09-Oct-91	U-2	230	7.1	. < 0.30	< 0.30	11
12-Feb-92	U-2	410	1.9	< 0.30	0.36	0.40
05-May-92	U-2	1600	120	52	6.2	290
20-Aug-92	Ų-2	700	28	6.5	1.3	4.6
06-Nov-92	U-2	620	17	2.1	< 0.5	37
22-Feb-93	U-2	3400	2400	2100	1200	5800
08-Oct-90	U-3	< 50.	< 0.5	< 0.5	< 0.5	< 0.5
07-Jan-91	U-3	< 50.	< 0.5	< 0.5	< 0.5	1.8
01-Apr-91	U-3	< 50.	1.0	2.9	0.53	5.4
03-Jul-91	U-3	<30	< 0.30	< 0.30	< 0.30	< 0.30
09-Oct-91	U-3	<30	< 0.30	< 0.30	< 0.30	< 0.30
12-Feb-92	U-3	<30	< 0.30	< 0.30	< 0.30	< 0.30
05-May-92	U-3	< 50	< 0.5	< 0.5	< 0.5	< 0.5
20-Aug-92	U-3	< 50	< 0.5	< 0.5	< 0.5	< 0.5
06-Nov-92	U-3	<50	< 0.5	< 0.5	< 0.5	< 0.5
22-Feb-93	U-3	< 50	< 0.5	< 0.5	< 0.5	< 0.5

TABLE 2

HISTORICAL GROUND-WATER QUALITY DATABASE

TPH-G

Total Petroleum Hydrocarbons calculated as Gasoline.

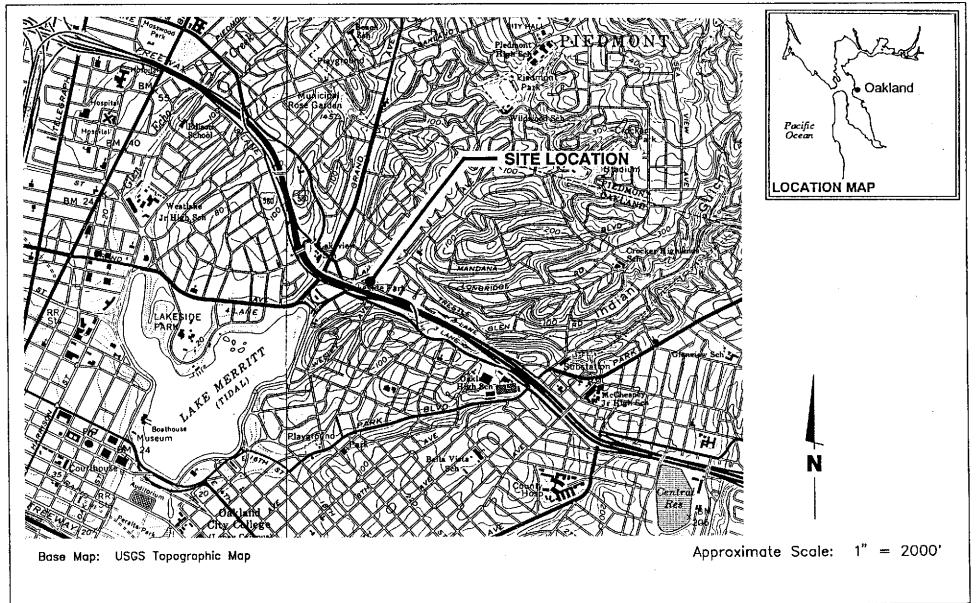
PPB

Parts Per Billion.

Note:

All data shown as <x are reported as ND (none detected).

The positive result for gasoline does not appear to have a typical gasoline pattern.



GSI

GeoStrategies Inc.

Vicinity Map UNOCAL Service Station #5325 3220 Lakeshore Avenue Oakland, California

akiana, Camornia

REVISED DATE

JOB NUMBER REVIEWED BY RG/CEG
7814 CL

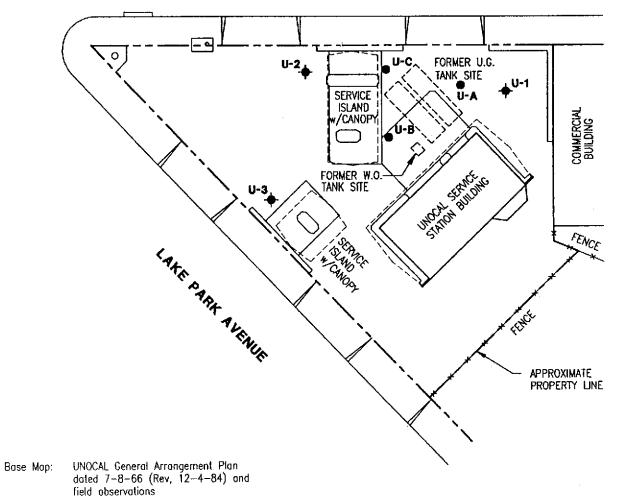
6/90

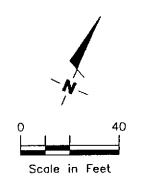
PLATE

EXPLANATION

- ♣ Ground—water monitoring well
- Soil boring







PLATE

GSI

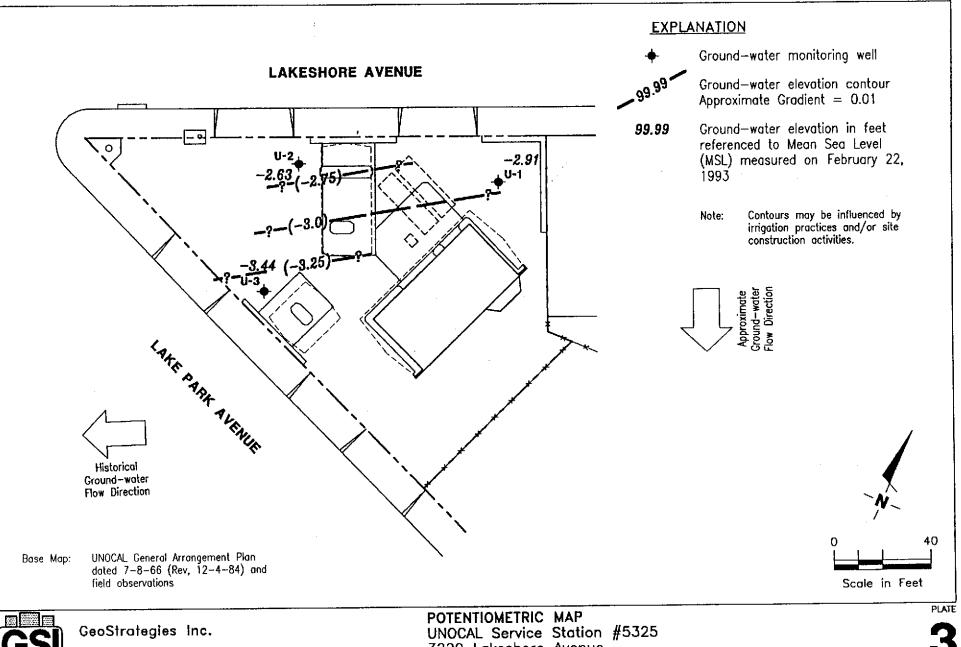
GeoStrategies Inc.

SITE PLAN UNOCAL Service Station #5325 3220 Lakeshore Avenue Oakland, California

REVISED DATE

JOB NUMBER REVIEWED BY 7814

DATE 5/92



3220 Lakeshore Avenue Oakland, California

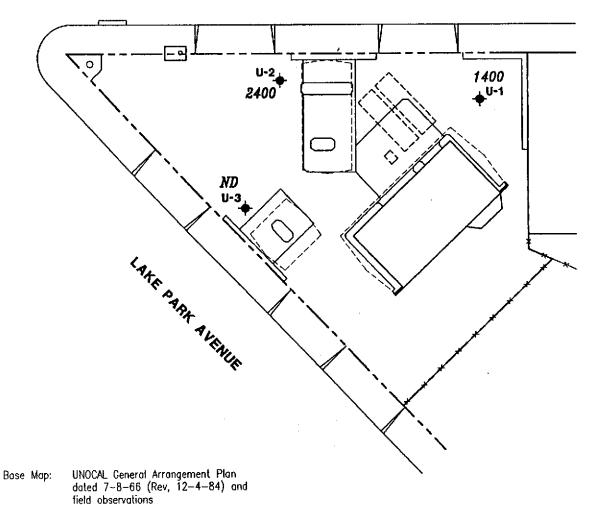
REVISED DATE

JOB NUMBER 781480-14

REVIEWED BY

DATE 4/93

LAKESHORE AVENUE

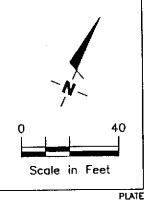


EXPLANATION

Ground-water monitoring well

Benzene concentration in ppb 0.05 sampled on February 22, 1993

Not Detected (See laboratory reports for detection limits) ND





GeoStrategies Inc.

BENZENE CONCENTRATION MAP UNOCAL Service Station #5325 3220 Lakeshore Avenue Oakland, California

REVISED DATE

REVIEWED BY

DATE 4/93

JOB NUMBER 781480-14

General and Environmental Contractors

OBSERVATION WELL DAILY MONITOR RECORD

	L Unocal			JOB #	
CATION	1 3220 L	a keshove	Are	DATE	2 2 - 5 3
ry	Oakland			TIME	
WRLL	DEPTH TO LIQUID (DTH) OR (DTW)	HYDROCARBON 1	HICKNESS (HT)	AMOUNT PUMPED	COMMENTS
) .	8.66	Ø	20.3		Sample
- 2_	7.57		20.0		
7-3	11.58		20.0		
					
	·················.				
					
RODUCT TANK	C: TOTAL		<u> </u>	FLOWMETER	
<u>.</u>	WATER			OTHER	
MENTS					

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY(Inocal #	·5325	JOB #	9814.80
LOCATION3	220 Lake	shore Are	DATE	2-22-93
CITY C	Dakland		TIME	
Well ID.	<u>U-1</u>	Well Condi	tion OK	·
Well Diameter	3	in. Hydrocarbo	on Thickness	
Total Depth	20.3		$6^{\circ} = 0.17$ $6^{\circ} = 1.5$ $6^{\circ} = 2.6$	
Depth to Liquid-	8.66	ft. (VF) 4'	" = 0.66 10" = 4.1	0
(# of casing volumes)	11.64	x(VF), 38	=(Estimated) Purge Volume	32.0 gal.
Purging Equipment_	DD			
Sampling Equipment	Baile	<i>t</i>	·	······································
		÷		
Starting Time	,	Purging Flow	w Rate	gpm.
(Purge Volume) 22	gal. /	rging) 8 2	Time	min.
Time	pН	Conductivity	Temperature	Volume
49 7.	7.03	1644 14400	63.8	2,00
950	7-34	2420	65.4	8 sal
954	7.62	2830	65.5	16 sel
957	7.64	28 90	65'18	22 jal
1002	7-60	2870	66.1	23 Jul
Did well dewater?	<i>ا</i> ه	If yes, time	Volume	
Sampling Time	1602	Weather Condi	tions ran	^
	BTYE	Bottle	es Used3 <u>X40</u>	nd i
Analysisa				•
Analysis Chain of Custody Nu				
Comments				

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

 				
COMPANY	Unocal #	5325	JOB #	5814.80
LOCATION	3320 Lake	eshore Are	DATE	2-22-97
CITY	Oakland		TIME	
Well ID.	0.2	Well Condit	ion 0	<u> </u>
Well Diameter	3	in. Hydrocarbo	n Thickness	ft.
Total Depth	20.0	ft. Volume 2" Factor 3"	= 0.17 6" = 1.5 = 0.38 8" = 2.6	50 12" = 5.80
Depth to Liquid-	7.57		= 0.66 10" = 4.	10
(# of casing volumes)	x 12.43	x(VF)	= (Estimated) Purge Volume	23.5 gal. (4-7)
Purging Equipment				(4-+)
Sampling Equipmen	t u			
Estimated Purge Volume	and the contract of the contra	ging ow ate)min.
Time	pH	Conductivity		Volume
loic .	C-84	2210	65.6	1,0
1020	7-08	2720	67-3	8 fal
11/0	7,12	3040	67.6	9 sel
	·			<u></u>
		 		
Did well dewater?	You	If yes, time	lo 20 Volum	e Soul
Sampling Time	MIO	Weather Condit	ions vai	u
Analysis	2 BYE	Bottle	s Used3×40	ond
Chain of Custody N				
CONGRENTS				
FOREMAN	Sauch		assistant	

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

Well Diameter Total Depth Depth to Liquid— (# of casing volumes) x	Daklond U-3 in. 20:0 ft. 11:58 ft. 8:42	Well Cond Hydrocarb Volume 2 Factor 3	TIME	ft. 1.50 12" = 5.80 2.60
Well ID. Well Diameter Total Depth Depth to Liquid— (# of casing volumes)x	20.0 st. 11.58 st. 8.42 Bailer	Hydrocarb Volume 2 Factor 3 (VF) 4	ition O oon Thickness 2" = 0.17 6" = 3" = 0.38 8" = 4" = 0.66 10" =	ft. 1.50 12" = 5.80 2.60 4.10
(# of casing volumes) x	20.0 ft. 11.58 ft. 8.42 Bailer	Hydrocarb Volume 2 Factor 3 (VF) 4	ition O oon Thickness 2" = 0.17 6" = 3" = 0.38 8" = 4" = 0.66 10" =	ft. 1.50 12" = 5.80 2.60 4.10
Well Diameter Total Depth Depth to Liquid— (# of casing volumes) x	20.0 ft. 11.58 ft. 8.42 Bailer	Hydrocarb Volume 2 Factor 3 (VF) 4	oon Thickness	1.50 12" = 5.80 2.60 4.10
Total Depth Depth to Liquid- (# of casing volumes) x	20.0 st. 11.58 st. 8.42 Bailer	Volume S Factor (VF)	2" = 0.17 6" = 3" = 0.38 8" = 4" = 0.66 10" =	1.50 12" = 5.80 2.60 4.10
Depth to Liquid- (# of casing volumes) x	8.42 Bailer	Factor 3 (VF)	3" = 0.38 $8" = 4" = 0.66$ $10" = 10$	2.60 4.10
Depth to Liquid- (# of casing volumes) x	8.42 Bailer	(VF) 4	4" = 0.66 10" =	4.10
	Bailer	x(VF) 38	P = Estimat Purge Volum	$ \frac{\text{(3.0)}}{\text{(3.2)}} $
	Bailer			(3.2)
Purging Equipment				
Sampling Equipment				
pamping pdaipment _				
				·
<u> </u>	033	Purging Flo	w Rate	gpm.
Estimated Purge Volume	gal. Purging		gpm. = (Anticipat Purgin Time	min.
(volume /	Rate .		Time	
Time	рН	Conductivity	Temperature	Volume
1074	7-36	1710	64-1	1 500
1040	7.40	1595	64-3	6 rul
1120	7.47	1527	64-6	Frul
Did well dewater?	Yen If	yes, time	10Y0 Volu	ime 6 cel
Sampling Time			•	en
Analysis	BXE	Bottl	les Used 3/	xyoul
Chain of Custody Num				
- Hill		· · · · · · · · · · · · · · · · · · ·		
COMMENTS				· · · · · · · · · · · · · · · · · · ·
FOREMAN G				

ANAMETRIX INC

Environmental & Analytical Chemistry

Part of Inchcapt Environmental

MR. FRANK CLINE

HAYWARD, CA 94545

GETTLER RYAN/GEOSTRATEGIES

2150 W. WINTON AVENUE



SETTLER-RYAN INC.

Workorder # : 9302340 Care Received : 02/25/93

Project ID : 9814.80 Purchase Order: 9814.80

The following samples were received at Anametrix, Inc. for analysis:

ANAMETRIX ID	CLIENT SAMPLE ID
9302340- 1	U-1
9302340- 2	U-2
9302340- 3	U-3
9302340- 4	TRIP

This report consists of 6 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anametrix.

hust thou

Sarah Schoen, Ph.D. Laboratory Director 03-11-93

Date

REPORT SUMMARY ANAMETRIX, INC. (408)432-8192

MR. FRANK CLINE

GETTLER RYAN/GEOSTRATEGIES 2150 W. WINTON AVENUE

HAYWARD, CA 94545

Workorder # : 9302340 Date Received: 02/25/93 Project ID : 9814.80

Purchase Order: 9814.80

Department : GC Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9302340- 1	U-1	WATER	02/22/93	TPHg/BTEX
9302340- 2	U-2	WATER	02/22/93	TPHg/BTEX
9302340- 3	U-3	WATER	02/22/93	TPHg/BTEX
9302340- 4	TRIP	WATER	02/12/93	TPHg/BTEX

REPORT SUMMARY ANAMETRIX, INC. (408)432-8192

MR. FRANK CLINE

GETTLER RYAN/GEOSTRATEGIES

2150 W. WINTON AVENUE

HAYWARD, CA 94545

Workorder # : 9302340 Date Received : 02/25/93 Project ID : 9814.80

Purchase Order: 9814.80

Department : GC

Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Department Supervisor

3/5/53

Date

Lucia Strer 3/10/43

Chemist

Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS (GASOLINE WITH BTEX) ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9302340 Project Number: 9814.80 Matrix : WATER Date Released: 03/09/93

Date Sampled : 02/12 & 22/93

	Reporting Limit	Sample I.D.# U-1	Sample I.D.# U-2	Sample I.D.# U-3	Sample I.D.# TRIP	Sample I.D.# BM0302E3
COMPOUNDS	(ug/L)	-01	-02	-03	-04	BLANK
Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	0.5 0.5 0.5 0.5 0.5	1400 5500 910 7300 34000	2400 2100 1200 5800 34000	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND
<pre>% Surrogate Rec Instrument I.I Date Analyzed RLMF</pre>		94% HP12 03/03/93 250	91% HP12 03/03/93 250	104% HP12 03/04/93	108% HP12 03/03/93	103% HP12 03/03/93

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.

RLMF - Reporting Limit Multiplication Factor.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 61-139%

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Luca Sher 3/11/43
Analyst Date

Cheugh Balmar 3/11/52 Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS (GASOLINE WITH BTEX) ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9302340 Matrix : WATER

Project Number: 9814.80 Date Released: 03/09/93

Date Sampled : N/A

	Reporting Limit	Sample I.D.# BM0401E3	 	
COMPOUNDS	(ug/L)	BLANK		
Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	0.5 0.5 0.5 0.5 50	ND ND ND ND		
<pre>% Surrogate Reco Instrument I.l Date Analyzed RLMF</pre>		125% HP12 03/04/93	· .	

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.

RLMF - Reporting Limit Multiplication Factor.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 61-139%

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Iuua Shor 3/11/93 Analyst Date Cheurl Balmer 3/1/93 Supervisor Date

TOTAL VOLATILE HYDROCARBON MATRIX SPIKE REPORT EPA METHOD 5030 WITH GC/FID ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 9814.80 U-3

Anametrix I.D.: 9302340-03
Analyst: III
Supervisor: #
Date Released: 03/09/93 Matrix : WATER
Date Sampled : 02/22/93
Date Analyzed : 03/03/93

COMPOUND	SPIKE AMT (ug/L)	SAMPLE CONC (ug/L)	MS AMT (ug/L)	% REC MS	MD AMT (ug/L)	% REC MD	RPD	% REC LIMITS
BENZENE TOLUENE ETHYLBENZENE TOTAL-XYLENES	20.0 20.0 20.0 20.0	0.0 0.0 0.0	22.3 21.8 23.3 21.0	112% 109% 117% 105%	22.4 21.5 23.1 21.0	112% 108% 116% 105%	0% -1% -1% 0%	45-139 51-138 48-146 50-139
p-BFB				93%		92%		61-139

^{*} Quality control limit established by Anametrix, Inc.

BTEX LABORATORY CONTROL SAMPLE REPORT EPA METHOD 5030 WITH GC/PID ANAMETRIX, INC. (408) 432-8192

Anametrix I.D.: LCSW0303 Analyst : IS : LAB CONTROL SAMPLE : WATER Sample I.D.

Matrix

Supervisor : (3)
Date Released : 03/09/93
Instrument ID : HP12 Date Sampled : N/A
Date Analyzed : 03/03/93

COMPOUND	SPIKE AMT. (ug/L)	LCS (ug/L)	REC LCS	%REC LIMITS
Benzene Toluene Ethylbenzene TOTAL Xylenes	20.0 20.0 20.0 20.0	22.5 22.1 23.8 21.8	113% 111% 119% 109%	52-133 57-136 56-139 56-141
P-BFB			90%	61-139

^{*} Limits established by Anametrix, Inc.

		- 9	302340	K4)	1500		
Gettler - R	_		VIRONMENTAL DI	IVISION	(P) 317	3 Chain of	Custody
COMPANY	Uno cal	Corp	35#5325		J(DB NO	
JOB LOCATION _		•					
CITY	Oakland			<u></u>	PHONE NO	0. (510) 78	3-7500
AUTHORIZED	Frank C	line	DATE	2-22-93	P.O. NO	9814-80	<u> </u>
SAMPLE ID	NO. OF CONTAINERS	SAMPLE MATRIX	DATE/TIME SAMPLED	ANALYSIS I	REQUIRED	SAMPLE CO	
U-1	3	H, 0	2-22-93/1002	THC Croz) BTX€		
U-2		1	1/1110	•		2	
U-3			1/1120			(3)	
trip	2	<u>J</u>	-1-		(4) Bubble	IXVOA
		<u>. </u>			 		
		·	·				
The second secon							
	Fri Friedrich (1997) <u>Britanis (1997)</u> au J. Britanis (1997)	<u>andrian and an and an </u>					
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2							En Carrier Contract
		When the state of	Constitution of the second				· .
RELINQUISHED BY		2-22	-93 REC	EIVED BY	II M	-0-12-9	/3: <i>5</i>
RELINQUISHED BY		/357	13:50 REC	EIVED BY:			
		2-25-93	K	athy Pla	ffle	2-25-9	3 14:50
RELINQUISHED BY:			REC	EIVED BY LAB:	//	5 <u>1</u> 2 2	
		Town iz — †\$1. note some ik√			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
DESIGNATED LABO		Aname	trix	DHS #	· · ·		
REMARKS:		21 <u>2</u> 233			- .	•	
	omal	IAT			······································	· · · · · · · · · · · · · · · · · · ·	
					<u> </u>		
DATE COMPLETED	2-22-	5.3	FOR	EMAN	- Sauch	/ 1c7	
A CONTRACTOR OF THE CONTRACTOR	•						