

MONITORING
PURGING
DISPOSING
SAMPLING

MPDS

SERVICES, INCORPORATED

3/13/96

February 1, 1996

Alameda County Health Care Services
1131 Harbor Bay Parkway
Alameda, CA 94501

RE: Unocal Service Station #5484
18950 Lake Chabot Road
Castro Valley, California

Per the request of the Unocal Corporation Project Manager, Ms. Tina R. Berry, enclosed please find our report (MPDS-UN5484-09) dated January 9, 1996 for the above referenced site.

Should you have any questions regarding the reporting of data, please feel free to call our office at (510) 602-5120. Any other questions may be directed to the Project Manager at (510) 277-2321.

Sincerely,

MPDS Services, Inc.



Jarrel F. Crider

/jfc

Enclosure

cc: Ms. Tina R. Berry

MPDS-UN5484-09
 January 9, 1996

Unocal Corporation
 2000 Crow Canyon Place, Suite 400
 P.O. Box 5155
 San Ramon, California 94583

Attention: Ms. Tina R. Berry

RE: Quarterly Data Report
 Unocal Service Station #5484
 18950 Lake Chabot Road
Castro Valley, California

Dear Ms. Berry:

This data report presents the results of the most recent quarter of monitoring and sampling of the monitoring wells at the referenced site by MPDS Services, Inc.

RECENT FIELD ACTIVITIES

The monitoring wells that were monitored and sampled during this quarter are indicated in Table 1. Prior to sampling, the wells were checked for depth to water and the presence of free product or sheen. The monitoring data and the ground water elevations are summarized in Table 1. The ground water flow direction during the most recent quarter is shown on the attached Figure 1.

Ground water samples were collected on December 5, 1995. Monitoring well MW7 was resampled on December 8, 1995. Prior to sampling, the wells were each purged of between 6.5 and 25 gallons of water. Samples were then collected using a clean Teflon bailer. The samples were decanted into clean VOA vials and/or one-liter amber bottles, as appropriate, which were then sealed with Teflon-lined screw caps, labeled, and stored in a cooler, on ice, until delivery to a state-certified laboratory. Equipment blank, Field blank and Trip blank samples (denoted as ES1, ES2 and ES3 respectively) were also collected for quality assurance and control. MPDS Services, Inc. transported the purged ground water to the Unocal Refinery located in Rodeo, California, for treatment and discharge to San Pablo Bay under NPDES permit.

ANALYTICAL RESULTS

The ground water samples were analyzed at Sequoia Analytical Laboratory and were accompanied by properly executed Chain of Custody documentation. The analytical results of the ground water samples collected to date are summarized in Tables 2 and 3. The concentrations of Total Petroleum Hydrocarbons (TPH) as gasoline, TPH as diesel, and benzene

TABLE 1

SUMMARY OF MONITORING DATA

Well #	Ground Water Elevation (feet)	Depth to Water (feet)◆	Total Well Depth (feet)◆	Product Thickness (feet)	Sheen	Water Purged (gallons)
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(Monitored and Sampled on December 8, 1995)

MW7	221.80	9.59	19.55	0	No	7.0
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(Monitored and Sampled on December 5, 1995)

MW2	222.56	6.32	9.20	0	No	9
MW4	217.85	9.92	27.30	0	No	25
MW5	215.51	9.60	23.86	0	No	24
MW6	232.29	6.75	26.96	0	No	23
MW7	221.70	9.69	19.55	0	No	6.5

(Monitored and Sampled on September 5, 1995)

MW2	223.22	5.66	19.22	0	No	9.5
MW4	218.50	9.27	27.30	0	No	47
MW5	215.54	9.57	23.92	0	No	37.5
MW6*	233.35	5.69	*	0	--	0
MW7	222.78	8.61	19.56	0	No	7.5

(Monitored and Sampled on June 1, 1995)

MW2	224.23	4.65	19.21	0	No	10
MW4	220.12	7.65	27.31	0	No	55
MW5	216.90	8.21	23.92	0	No	42
MW6	234.28	4.76	27.05	0	No	60
MW7	223.47	7.92	19.56	0	No	9

(Monitored and Sampled on March 1, 1995)

MW2	224.28	4.60	19.25	0	No	10
MW4	220.48	7.29	27.35	0	No	53
MW5	217.13	7.98	23.82	0	No	42
MW6*	233.87	5.17	27.06	0	--	0
MW7	223.36	8.03	19.60	0	No	8

TABLE 1 (Continued)

SUMMARY OF MONITORING DATA

<u>Well #</u>	<u>Well Casing Elevation (feet)**</u>
MW2	228.88
MW4	227.77
MW5	225.11
MW6	239.04
MW7	231.39

- ◆ The depth to water level and total well depth measurements were taken from the top of the well casings.
- * Monitored only.
- ** The elevations of the top of the well casings are relative to Mean Sea Level (MSL), per the Alameda County Benchmark (elevation = 219.68 feet MSL).
- * Total well depth was not measured.
- Sheen determination was not performed.

TABLE 2

**SUMMARY OF LABORATORY ANALYSES
 WATER**

Date	Well #	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
12/05/95	MW2	--	ND	ND	ND	ND	ND	390
	MW4	--	ND	ND	ND	ND	ND	0.68
	MW5	170♦	ND	ND	ND	ND	ND	27
	MW6	--	ND	ND	ND	ND	ND	1.4
	MW7	110♦	400	23	ND	34	16	1,600
9/05/95	MW2▲	--	ND	ND	0.80	ND	0.74	--
	MW4	--	ND	ND	0.70	ND	0.71	--
	MW5▲	210♦	ND	ND	0.95	ND	0.87	--
	MW6	SAMPLED SEMI-ANNUALLY						
	MW7▲	ND	710	32	ND	85	33	--
6/01/95	MW2	--	420*	ND	ND	ND	ND	--
	MW4	--	ND	ND	0.78	ND	1.7	--
	MW5	57♦	ND	ND	ND	ND	ND	--
	MW6	--	ND	ND	0.70	ND	1.7	--
	MW7	1,600♦	3,900	170	ND	400	430	--
3/01/95	MW2	--	ND	ND	ND	ND	ND	--
	MW4	--	ND	ND	1.1	ND	0.75	--
	MW5	ND	ND	ND	ND	ND	ND	--
	MW6	SAMPLED SEMI-ANNUALLY						
	MW7	1,900♦♦	3,300	200	3.9	300	350	--
12/01/94	MW2	--	200	0.70	ND	0.58	ND	--
	MW4	--	ND	ND	ND	ND	ND	--
	MW5	79♦	ND	ND	ND	ND	ND	--
	MW6	--	ND	ND	ND	ND	ND	--
	MW7	260♦	3,100	80	ND	250	190	--
9/02/94	MW2	--	720	ND	ND	ND	4.6	--
	MW4	--	ND	ND	ND	ND	ND	--
	MW5	130♦	ND	ND	ND	ND	ND	--
	MW6	SAMPLED SEMI-ANNUALLY						
	MW7	490♦	3,800	77	ND	180	42	--

TABLE 2 (Continued)

**SUMMARY OF LABORATORY ANALYSES
 WATER**

Date	Well #	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	
6/03/94	MW2	--	190*	ND	ND	ND	ND	--	
	MW4	--	ND	ND	ND	ND	ND	--	
	MW5	80♦♦	ND	ND	ND	ND	ND	--	
	MW6	--	ND	ND	ND	ND	ND	--	
	MW7	2,000♦	9,400	380	5.0	820	240	--	
3/03/94	MW2	--	240*	ND	ND	ND	ND	--	
	MW4	--	ND	ND	ND	ND	ND	--	
	MW5	ND	ND	ND	ND	0.71	1.7	ND	
	MW6	SAMPLED SEMI-ANNUALLY							
	MW7	1,400♦	9,300	290	ND	590	400	1.7	
12/09/93	MW2	--	96*	ND	ND	ND	ND	--	
	MW4	WELL WAS INACCESSIBLE							
	MW5	87♦♦	ND	ND	ND	ND	ND	--	
	MW6	--	150	ND	ND	ND	1.7	--	
	MW7	250♦	980	54	4.6	71	5.6	--	
9/09/93	MW2	--	210*	ND	ND	ND	ND	--	
	MW4	--	ND	ND	ND	ND	ND	--	
	MW5	58♦♦	ND	ND	ND	ND	ND	--	
	MW6	SAMPLED SEMI-ANNUALLY							
	MW7	550♦♦	2,600**	160	19	250	120	--	
6/09/93	MW2	--	120*	ND	ND	ND	ND	300	
	MW4	--	ND	ND	ND	ND	ND	--	
	MW5	64	ND	ND	ND	ND	ND	--	
	MW6	--	ND	ND	ND	ND	ND	--	
	MW7	830♦♦	4,600	430	ND	510	430	--	
3/10/93	MW2	--	110*	ND	ND	ND	ND	350	
	MW4	--	ND	ND	ND	ND	ND	--	
	MW5	69♦	ND	ND	ND	ND	ND	--	
	MW6	SAMPLED SEMI-ANNUALLY							
	MW7	1,100♦	4,400	310	ND	300	330	--	

TABLE 2 (Continued)

SUMMARY OF LABORATORY ANALYSES
 WATER

<u>Date</u>	<u>Well #</u>	<u>TPH as Diesel</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-benzene</u>	<u>Xylenes</u>	<u>MTBE</u>
12/10/92	MW2	--	100*	ND	ND	ND	ND	170
	MW4	--	ND	ND	ND	ND	ND	--
	MW5	83♦♦	ND	ND	ND	ND	ND	--
	MW6	--	ND	ND	ND	ND	ND	--
	MW7	200♦♦	1,200	28	ND	37	13	--
9/10/92	MW2	--	61*	ND	ND	ND	ND	110
	MW4	SAMPLED	SEMI-ANNUALLY					
	MW5	110♦	ND	ND	ND	ND	ND	--
	MW6	SAMPLED	SEMI-ANNUALLY					
	MW7	290♦	2,100	160	1.9	140	150	--
6/18/92	MW2	--	140*	ND	ND	ND	ND	--
	MW4	--	ND	0.41	0.84	ND	0.55	--
	MW5	ND	ND	ND	ND	ND	ND	--
	MW6	--	ND	ND	ND	ND	ND	--
	MW7	990♦	5,500	340	4.2	380	410	--
3/20/92	MW2	--	120	ND	ND	ND	ND	--
	MW4	SAMPLED	SEMI-ANNUALLY					
	MW5	170	ND	ND	ND	ND	ND	--
	MW6	SAMPLED	SEMI-ANNUALLY					
	MW7	3,200	11,000	980	ND	990	1,600	--
12/19/91	MW2	--	140	0.66	ND	0.64	1.2	--
	MW4	--	ND	ND	ND	ND	ND	--
	MW5	--	ND	ND	ND	ND	ND	--
	MW6	--	ND	ND	ND	ND	ND	--
	MW7	770	3,900	240	2.4	280	270	--
10/10/91	MW5	ND	--	--	--	--	--	--
9/20/91	MW2	--	ND	ND	ND	ND	ND	--
	MW4	SAMPLED	SEMI-ANNUALLY					
	MW5	450	ND	ND	ND	ND	ND	--
	MW6	SAMPLED	SEMI-ANNUALLY					
	MW7	580	1,400	160	0.75	89	130	--

TABLE 2 (Continued)

SUMMARY OF LABORATORY ANALYSES
 WATER

Date	Well #	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
5/23/91	MW2	--	ND	ND	ND	ND	ND	--
	MW4	--	ND	ND	ND	ND	ND	--
	MW5	--	ND	ND	ND	ND	ND	--
	MW6	--	ND	ND	ND	ND	ND	--
	MW7	540	3,000	160	1.2	25	120	--

MTBE = Methyl tert butyl ether.

- ◆ Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be diesel.
- ◆◆ Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
- * Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be gasoline.
- ** Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- ▲ Sequoia Analytical Laboratory has potentially identified the presence of MTBE at reportable levels in the ground water sample collected from this well.

ND = Non-detectable.

-- Indicates analysis was not performed.

Results are in micrograms per liter ($\mu\text{g/L}$), unless otherwise indicated.

Note: Laboratory analyses data prior to December 9, 1993, were provided by Kaprealian Engineering, Inc.

TABLE 3

**SUMMARY OF LABORATORY ANALYSES
 WATER**

<u>Date</u>	<u>Well #</u>	<u>Total Oil & Grease (mg/L)</u>	<u>Bis(2- ethylhexyl) phthalate</u>	<u>2- Methyl- naphthalene</u>	<u>Naph- thalene</u>	<u>1,2- Dichloro- ethane</u>
12/08/95	MW7	--	ND	ND		--
12/05/95	MW5	--	--	--	--	ND
	MW7*	--	--	--	--	ND
9/05/95	MW5	--	--	--	--	ND
	MW7	--	ND	ND	7.0	1.8
6/01/95	MW5	--	--	--	--	ND
	MW7	--	ND	13	83	1.4
3/01/95	MW5	--	--	--	--	ND
	MW7▲	--	ND	40	120	1.6
12/01/94	MW5	--	--	--	--	ND
	MW7	--	ND	ND	2.5	1.0
9/02/94	MW5	--	--	--	--	ND
	MW7	--	ND	ND	ND	1.1
6/03/94	MW5	--	--	--	--	ND
	MW7	--	ND	18	61	1.4
3/03/94	MW5	--	--	--	--	ND
	MW7	--	ND	34	130	1.7
12/09/93	MW5	--	--	--	--	ND
	MW7	--	ND	ND	15	1.5
9/09/93	MW5	--	--	--	--	ND
	MW7◆	--	ND	11	48	1.5
6/09/93	MW5	--	--	--	--	ND
	MW7◆◆	--	13	19	83	1.3

TABLE 3 (Continued)

SUMMARY OF LABORATORY ANALYSES
 WATER

<u>Date</u>	<u>Well #</u>	<u>Total Oil & Grease (mg/L)</u>	<u>Bis(2-ethylhexyl) phthalate</u>	<u>2-Methyl-naphthalene</u>	<u>Naphthalene</u>	<u>1,2-Dichloroethane</u>
3/10/93	MW5	--	ND	ND	ND	ND
	MW7◆◆◆	--	13	19	83	1.3
12/10/92	MW7	--	--	--	--	2.0
9/10/92	MW7	--	--	--	--	2.3
6/18/92	MW7	ND	--	--	--	ND
3/20/92	MW7	ND	--	--	--	ND
12/19/91	MW7	ND	--	--	--	3.1
9/20/91	MW7	ND	--	--	--	ND
5/23/91	MW7	ND	--	--	--	3.4

TABLE 3 (Continued)

**SUMMARY OF LABORATORY ANALYSES
WATER**

- * Tetrachloroethene was detected at concentration of 56 $\mu\text{g/L}$.
- ◆ Seven "tentatively identified compounds" were detected by the EPA method 8270 open scan at concentrations ranging 11 $\mu\text{g/L}$ to 88 $\mu\text{g/L}$. Refer to laboratory analysis sheets for the specific compounds and concentrations.
- ◆◆ Ten "tentatively identified compounds" were detected by the EPA method 8270 open scan at concentrations ranging from 14 $\mu\text{g/L}$ to 150 $\mu\text{g/L}$. Refer to laboratory analysis sheets for the specified compounds and concentrations.
- ◆◆◆ Nine "tentatively identified compounds" were detected by the EPA method 8270 open scan at concentrations ranging from 10 $\mu\text{g/L}$ to 59 $\mu\text{g/L}$. Refer to laboratory analysis sheets for the specific compounds and concentrations.
- ▲ Phenol was detected at a concentration of 2.1 $\mu\text{g/L}$.

ND = Non-detectable.

-- Indicates analysis was not performed.

mg/L = milligrams per liter.

Results are in micrograms per liter ($\mu\text{g/L}$), unless otherwise indicated.

Note: - All EPA methods 8010 and 8270 compounds were non-detectable, except for the compounds listed.

- Laboratory analyses data prior to December 9, 1993, were provided by Kaprealian Engineering, Inc.

detected in the ground water samples collected this quarter are shown on the attached Figure 2. Copies of the laboratory analytical results and the Chain of Custody documentation are attached to this report.

LIMITATIONS

Environmental changes, either naturally-occurring or artificially-induced, may cause changes in ground water levels and flow paths, thereby changing the extent and concentration of any contaminants.

DISTRIBUTION

A copy of this report should be sent to the Alameda County Health Care Services Agency.

If you have any questions regarding this report, please do not hesitate to call Mr. Nubar Srabian at (510) 602-5120.

Sincerely,

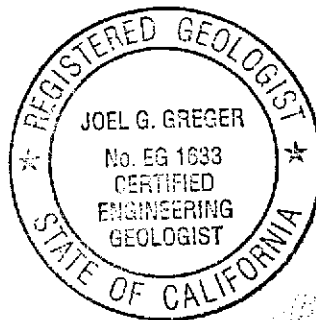
MPDS Services, Inc.



Haig (Gary) Tejirian
Senior Staff Geologist



Joel G. Greger, C.E.G.
Senior Engineering Geologist

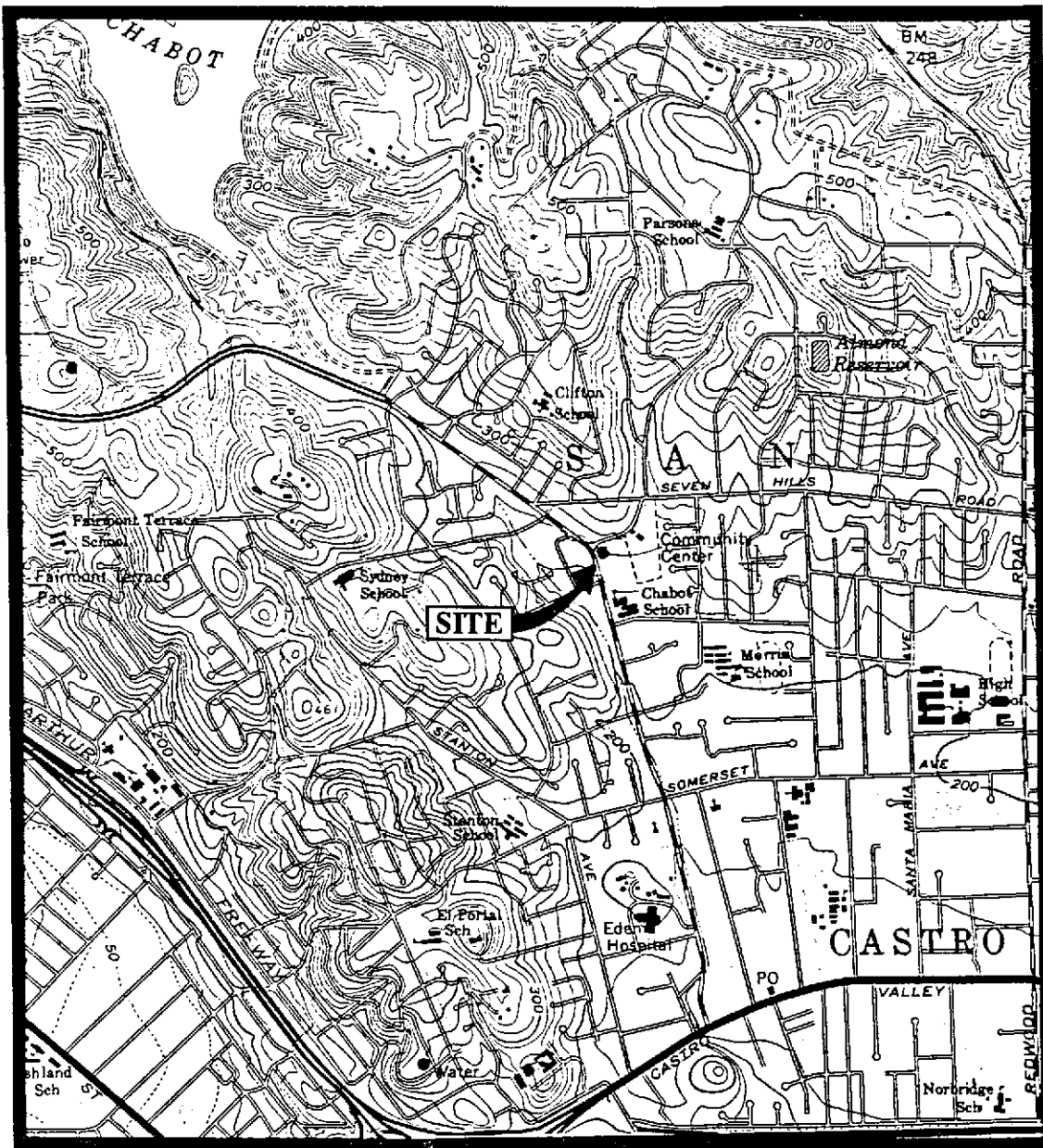


License No. EG 1633
Exp. Date 8/31/96

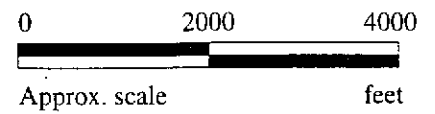
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Attachments: Tables 1, 2 & 3
Location Map
Figures 1 & 2
Laboratory Analyses
Chain of Custody documentation

cc: Mr. Thomas Berkins, Kaprealian Engineering, Inc.



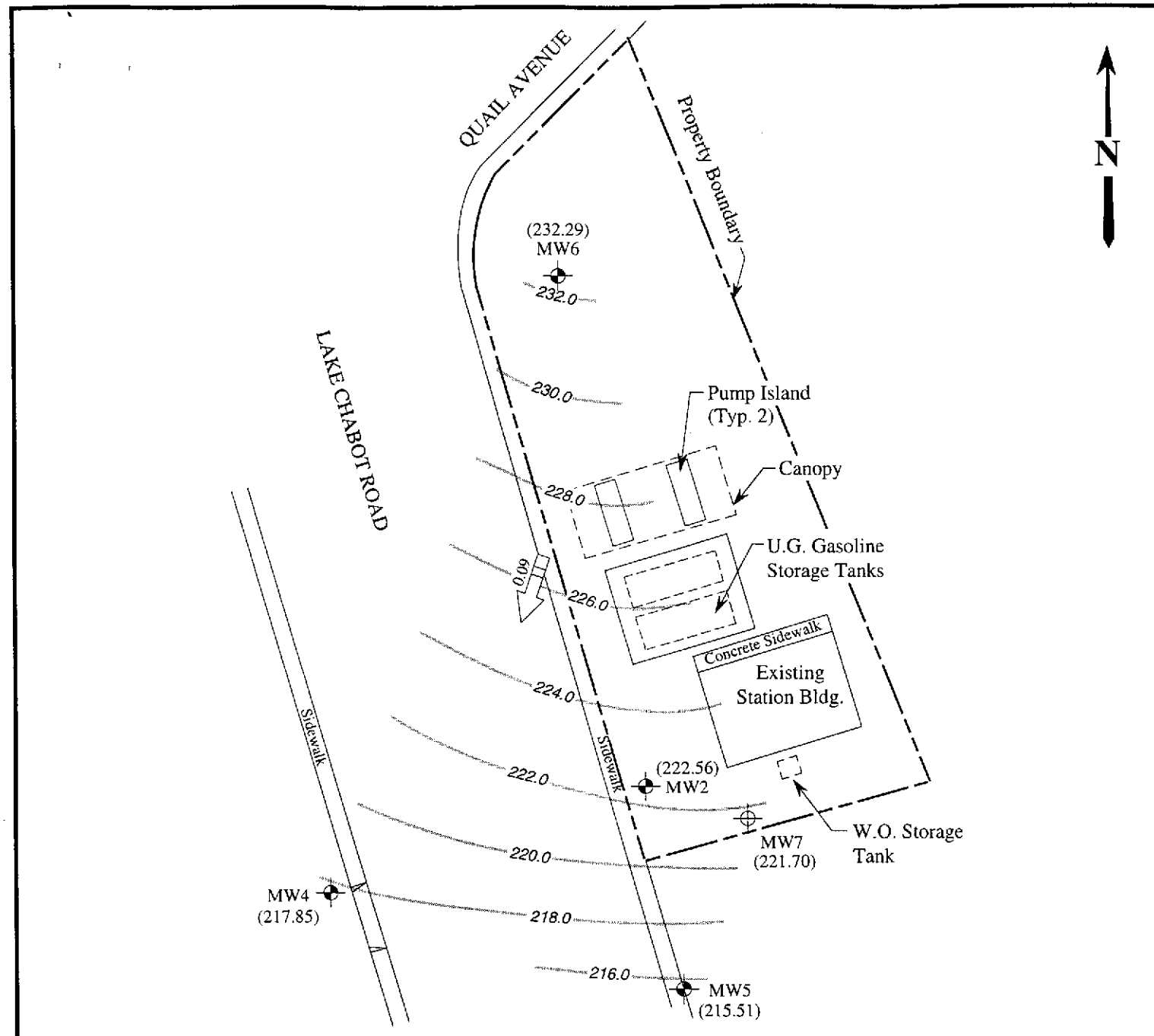
Base modified from 7.5 minute U.S.G.S. Hayward Quadrangle
 (photorevised 1980)



mpds SERVICES, INCORPORATED

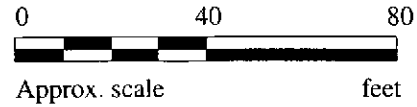
**UNOCAL SERVICE STATION #5484
 18950 LAKE CHABOT ROAD
 CASTRO VALLEY, CALIFORNIA**

**LOCATION
 MAP**



LEGEND

- Monitoring well (by KEI)
- Monitoring well (by AGS)
- () Ground water elevation in feet above Mean Sea Level
- Direction of ground water flow with approximate hydraulic gradient
- Contours of ground water elevation

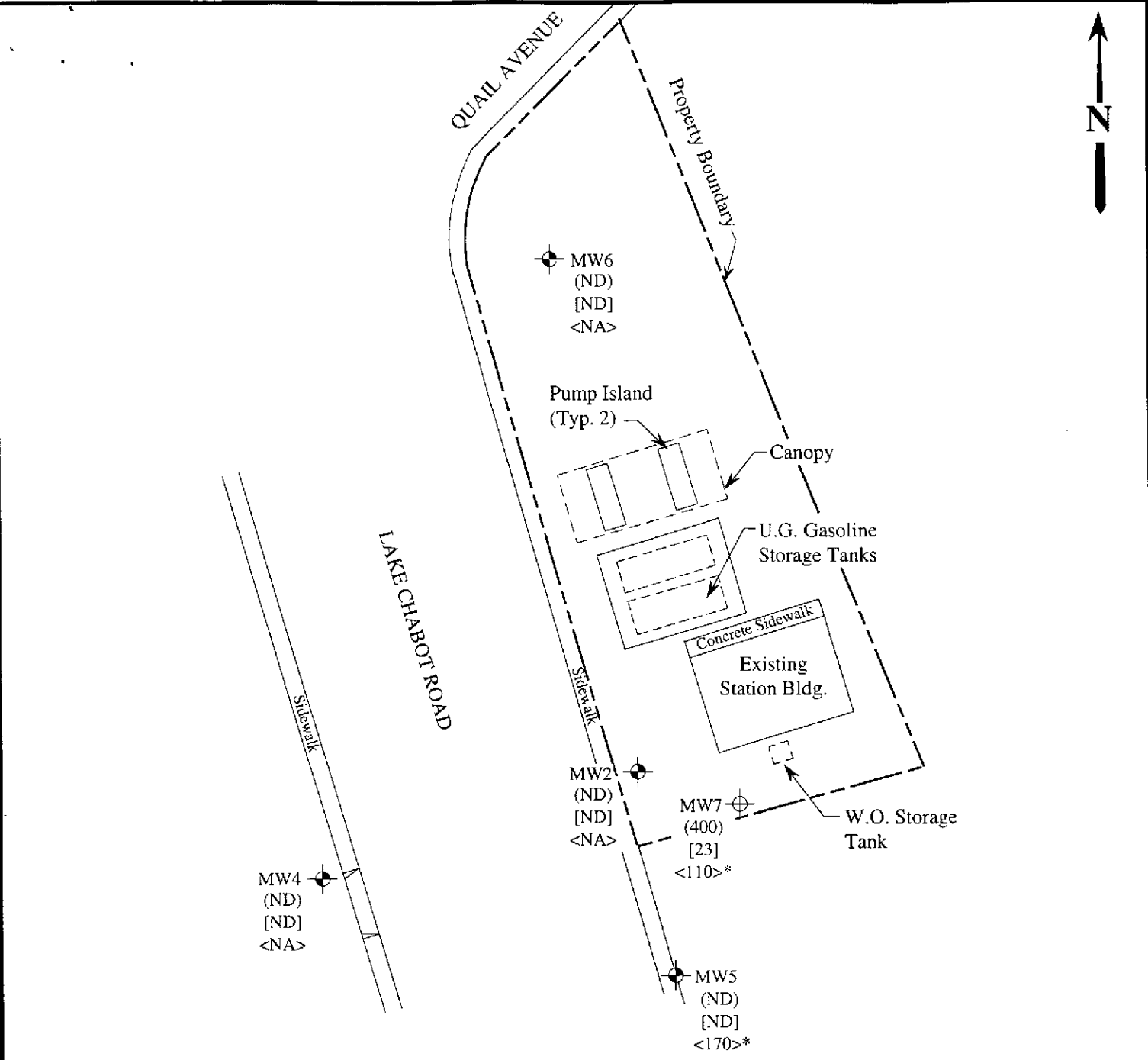


POTENTIOMETRIC SURFACE MAP FOR THE DECEMBER 5, 1995 MONITORING EVENT



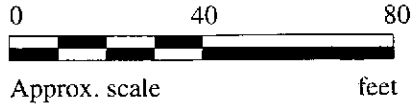
**UNOCAL SERVICE STATION #5484
18950 LAKE CHABOT ROAD
CASTRO VALLEY, CALIFORNIA**

**FIGURE
1**



LEGEND

- ⊕ Monitoring well (by KEI)
- ⊙ Monitoring well (by AGS)
- () Concentration of TPH as gasoline in µg/L
- [] Concentration of benzene in µg/L
- < > Concentration of TPH as diesel in µg/L
- ND Non-detectable, NA Not analyzed



* The lab reported that the hydrocarbons detected did not appear to be diesel.

PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON DECEMBER 5, 1995



**UNOCAL SERVICE STATION #5484
18950 LAKE CHABOT ROAD
CASTRO VALLEY, CALIFORNIA**

**FIGURE
2**



MPDS Services 2401 Stanwell Dr., Ste. 300 Concord, CA 94520 Attention: Jarrel Crider	Client Project ID: Unocal #5484, 18950 Lake Chabot Rd., Matrix Descript: Water Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: 512-0546	Sampled: Dec 5, 1995 Received: Dec 5, 1995 Reported: Dec 28, 1995
--	---	--

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Sample Number	Sample Description	Purgeable Hydrocarbons µg/L	Benzene µg/L	Toluene µg/L	Ethyl Benzene µg/L	Total Xylenes µg/L
512-0546	MW2	ND	ND	ND	ND	ND
512-0547	MW4	ND	ND	ND	ND	ND
512-0548	MW5	ND	ND	ND	ND	ND
512-0549	MW6	ND	ND	ND	ND	ND
512-0550	MW7	400	23	ND	34	16
512-0551	ES1	ND	ND	ND	ND	ND
512-0552	ES2	ND	ND	ND	ND	ND
512-0553	ES3	ND	ND	ND	ND	ND

Detection Limits:	50	0.50	0.50	0.50	0.50
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Total Purgeable Petroleum Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as ND were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager





MPDS Services 2401 Stanwell Dr., Ste. 300 Concord, CA 94520 Attention: Jarrel Crider	Client Project ID: Unocal #5484, 18950 Lake Chabot Rd., Matrix Descript: Water Castro Valley Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: 512-0546	Sampled: Dec 5, 1995 Received: Dec 5, 1995 Reported: Dec 28, 1995
--	---	--

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Sample Number	Sample Description	Chromatogram Pattern	DL Mult. Factor	Date Analyzed	Instrument ID	Surrogate Recovery, % QC Limits: 70-130
512-0546	MW2	--	1.0	12/19/95	HP-2	103
512-0547	MW4	--	1.0	12/19/95	HP-2	101
512-0548	MW5	--	1.0	12/19/95	HP-2	103
512-0549	MW6	--	1.0	12/19/95	HP-2	101
512-0550	MW7	Gasoline	4.0	12/19/95	HP-2	73
512-0551	ES1	--	1.0	12/19/95	HP-2	101
512-0552	ES2	-	1.0	12/19/95	HP-2	102
512-0553	ES3	-	1.0	12/19/95	HP-2	103

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager





MPDS Services 2401 Stanwell Dr., Ste. 300 Concord, CA 94520 Attention: Jarrel Crider	Client Project ID: Unocal #5484, 18950 Lake Chabot Rd., Sample Descript: Water Analysis for: MTBE (Modified EPA 8020) First Sample #: 512-0546	Sampled: Dec 5, 1995 Received: Dec 5, 1995 Analyzed: Dec 19, 1995 Reported: Dec 28, 1995
--	---	---

LABORATORY ANALYSIS FOR: MTBE (Modified EPA 8020)

Sample Number	Sample Description	Detection Limit µg/L	Sample Result µg/L
512-0546	MW2	0.60	390
512-0547	MW4	0.60	0.68
512-0548	MW5	0.60	27
512-0549	MW6	0.60	1.4
512-0550	MW7	2.4	1,600

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

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager

5120546.MPD <3>





MPDS Services 2401 Stanwell Dr., Ste. 300 Concord, CA 94520 Attention: Jarrel Crider	Client Project ID: Unocal #5484, 18950 Lake Chabot Rd., Sample Matrix: Water Analysis Method: EPA 3510/8015 Mod. First Sample #: 512-0548	Sampled: Dec 5, 1995 Received: Dec 5, 1995 Reported: Dec 28, 1995
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TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 512-0548 MW5*	Sample I.D. 512-0550 MW7*
Extractable Hydrocarbons	50	170	110
Chromatogram Pattern:		Discrete Peaks	Unidentified Hydrocarbons >C16

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Extracted:	12/11/95	12/11/95
Date Analyzed:	12/13/95	12/13/95
Instrument Identification:	HP-3A	HP-3A

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager

Please Note:

*This sample does not appear to contain diesel. "Discrete Peaks" refers to unidentified peaks EPA 8270 range; "Unidentified Hydrocarbons >C16" refers to unidentified peaks in the total oil and grease range.





MPDS Services
2401 Stanwell Dr., Ste. 300
Concord, CA 94520
Attention: Jarrel Crider

Client Project ID: Unocal #5484, 18950 Lake Chabot Rd.,
Sample Descript: **Water, MW5** Castro Valley
Analysis Method: EPA 5030/8010
Lab Number: 512-0548

Sampled: Dec 5, 1995
Received: Dec 5, 1995
Analyzed: Dec 19, 1995
Reported: Dec 28, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane.....	0.50	N.D.
Bromoform.....	0.50	N.D.
Bromomethane.....	1.0	N.D.
Carbon tetrachloride.....	0.50	N.D.
Chlorobenzene.....	0.50	N.D.
Chloroethane.....	1.0	N.D.
2-Chloroethylvinyl ether.....	1.0	N.D.
Chloroform.....	0.50	N.D.
Chloromethane.....	1.0	N.D.
Dibromochloromethane.....	0.50	N.D.
1,3-Dichlorobenzene.....	0.50	N.D.
1,4-Dichlorobenzene.....	0.50	N.D.
1,2-Dichlorobenzene.....	0.50	N.D.
1,1-Dichloroethane.....	0.50	N.D.
1,2-Dichloroethane.....	0.50	N.D.
1,1-Dichloroethene.....	0.50	N.D.
cis-1,2-Dichloroethene.....	0.50	N.D.
trans-1,2-Dichloroethene.....	0.50	N.D.
1,2-Dichloropropane.....	0.50	N.D.
cis-1,3-Dichloropropene.....	0.50	N.D.
trans-1,3-Dichloropropene.....	0.50	N.D.
Methylene chloride.....	5.0	N.D.
1,1,2,2-Tetrachloroethane.....	0.50	N.D.
Tetrachloroethene.....	0.50	N.D.
1,1,1-Trichloroethane.....	0.50	N.D.
1,1,2-Trichloroethane.....	0.50	N.D.
Trichloroethene.....	0.50	N.D.
Trichlorofluoromethane.....	0.50	N.D.
Vinyl chloride.....	1.0	N.D.

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

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager





Sequoia Analytical

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FAX (916) 921-0100

MPDS Services 2401 Stanwell Dr., Ste. 300 Concord, CA 94520 Attention: Jarrel Crider	Client Project ID: Unocal #5484, 18950 Lake Chabot Rd., Sample Descript: Water, MW7 Analysis Method: EPA 5030/8010 Lab Number: 512-0550	Castro Valley	Sampled: Dec 5, 1995 Received: Dec 5, 1995 Analyzed: Dec 19, 1995 Reported: Dec 28, 1995
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HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane.....	5.0	N.D.
Bromoform.....	5.0	N.D.
Bromomethane.....	10	N.D.
Carbon tetrachloride.....	5.0	N.D.
Chlorobenzene.....	5.0	N.D.
Chloroethane.....	10	N.D.
2-Chloroethylvinyl ether.....	10	N.D.
Chloroform.....	5.0	N.D.
Chloromethane.....	10	N.D.
Dibromochloromethane.....	5.0	N.D.
1,3-Dichlorobenzene.....	5.0	N.D.
1,4-Dichlorobenzene.....	5.0	N.D.
1,2-Dichlorobenzene.....	5.0	N.D.
1,1-Dichloroethane.....	5.0	N.D.
1,2-Dichloroethane.....	5.0	N.D.
1,1-Dichloroethene.....	5.0	N.D.
cis-1,2-Dichloroethene.....	5.0	N.D.
trans-1,2-Dichloroethene.....	5.0	N.D.
1,2-Dichloropropane.....	5.0	N.D.
cis-1,3-Dichloropropene.....	5.0	N.D.
trans-1,3-Dichloropropene.....	5.0	N.D.
Methylene chloride.....	50	N.D.
1,1,2,2-Tetrachloroethane.....	5.0	N.D.
Tetrachloroethene.....	5.0	51
1,1,1-Trichloroethane.....	5.0	N.D.
1,1,2-Trichloroethane.....	5.0	N.D.
Trichloroethene.....	5.0	N.D.
Trichlorofluoromethane.....	5.0	N.D.
Vinyl chloride.....	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager





MPDS Services
2401 Stanwell Dr., Ste. 300
Concord, CA 94520
Attention: Jarrel Crider

Client Project ID: Unocal #5484, 18950 Lake Chabot Rd.,
Sample Descript: **Water, MW7** Castro Valley
Analysis Method: EPA 8270
Lab Number: 512-0550

Sampled: Dec 8, 1995
Received: Dec 8, 1995
Extracted: Dec 13, 1995
Analyzed: Dec 15, 1995
Reported: Dec 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acenaphthene.....	2.0	N.D.
Acenaphthylene.....	2.0	N.D.
Aniline.....	2.0	N.D.
Anthracene.....	2.0	N.D.
Benzidine.....	50	N.D.
Benzoic Acid.....	10	N.D.
Benzo(a)anthracene.....	2.0	N.D.
Benzo(b)fluoranthene.....	2.0	N.D.
Benzo(k)fluoranthene.....	2.0	N.D.
Benzo(g,h,i)perylene.....	2.0	N.D.
Benzo(a)pyrene.....	2.0	N.D.
Benzyl alcohol.....	2.0	N.D.
Bis(2-chloroethoxy)methane.....	2.0	N.D.
Bis(2-chloroethyl)ether.....	2.0	N.D.
Bis(2-chloroisopropyl)ether.....	2.0	N.D.
Bis(2-ethylhexyl)phthalate.....	10	N.D.
4-Bromophenyl phenyl ether.....	2.0	N.D.
Butyl benzyl phthalate.....	2.0	N.D.
4-Chloroaniline.....	2.0	N.D.
2-Chloronaphthalene.....	2.0	N.D.
4-Chloro-3-methylphenol.....	2.0	N.D.
2-Chlorophenol.....	2.0	N.D.
4-Chlorophenyl phenyl ether.....	2.0	N.D.
Chrysene.....	2.0	N.D.
Dibenz(a,h)anthracene.....	2.0	N.D.
Dibenzofuran.....	2.0	N.D.
Di-N-butyl phthalate.....	10	N.D.
1,3-Dichlorobenzene.....	2.0	N.D.
1,4-Dichlorobenzene.....	2.0	N.D.
1,2-Dichlorobenzene.....	2.0	N.D.
3,3-Dichlorobenzidine.....	10	N.D.
2,4-Dichlorophenol.....	2.0	N.D.
Diethyl phthalate.....	2.0	N.D.
2,4-Dimethylphenol.....	2.0	N.D.
Dimethyl phthalate.....	2.0	N.D.
4,6-Dinitro-2-methylphenol.....	10	N.D.
2,4-Dinitrophenol.....	10	N.D.
2,4-Dinitrotoluene.....	2.0	N.D.
2,6-Dinitrotoluene.....	2.0	N.D.
Di-N-octyl phthalate.....	2.0	N.D.





MPDS Services 2401 Stanwell Dr., Ste. 300 Concord, CA 94520 Attention: Jarrel Crider	Client Project ID: Unocal #5484, 18950 Lake Chabot Rd., Sample Descript: Water, MW7 Analysis Method: EPA 8270 Lab Number: 512-0550	Castro Valley	Sampled: Dec 8, 1995 Received: Dec 8, 1995 Extracted: Dec 13, 1995 Analyzed: Dec 15, 1995
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SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/L	Sample Results µg/L
Fluoranthene.....	2.0	N.D.
Fluorene.....	2.0	N.D.
Hexachlorobenzene.....	2.0	N.D.
Hexachlorobutadiene.....	2.0	N.D.
Hexachlorocyclopentadiene.....	2.0	N.D.
Hexachloroethane.....	2.0	N.D.
Indeno(1,2,3-cd)pyrene.....	2.0	N.D.
Isophorone.....	2.0	N.D.
2-Methylnaphthalene.....	2.0	N.D.
2-Methylphenol.....	2.0	N.D.
4-Methylphenol.....	2.0	N.D.
Naphthalene.....	2.0	14
2-Nitroaniline.....	10	N.D.
3-Nitroaniline.....	10	N.D.
4-Nitroaniline.....	10	N.D.
Nitrobenzene.....	2.0	N.D.
2-Nitrophenol.....	2.0	N.D.
4-Nitrophenol.....	10	N.D.
N-Nitrosodimethylamine.....	2.0	N.D.
N-Nitrosodiphenylamine.....	2.0	N.D.
N-Nitroso-di-N-propylamine.....	2.0	N.D.
Pentachlorophenol.....	10	N.D.
Phenanthrene.....	2.0	N.D.
Phenol.....	2.0	N.D.
Pyrene.....	2.0	N.D.
1,2,4-Trichlorobenzene.....	2.0	N.D.
2,4,5-Trichlorophenol.....	10	N.D.
2,4,6-Trichlorophenol.....	2.0	N.D.

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

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager





MPDS Services
 2401 Stanwell Dr., Ste. 300
 Concord, CA 94520
 Attention: Jarrel Crider

Client Project ID: Unocal #5484, 18950 Lake Chabot Rd., Castro Valley
 Matrix: Liquid

QC Sample Group: 5120546-553

Reported: Dec 28, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015
Analyst:	M. Creusere	M. Creusere	M. Creusere	M. Creusere	J. Dinsay

MS/MSD Batch#:	5120547	5120547	5120547	5120547	BLK121195
Date Prepared:	12/19/95	12/19/95	12/19/95	12/19/95	12/11/95
Date Analyzed:	12/19/95	12/19/95	12/19/95	12/19/95	12/13/95
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	GCHP-3B
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
Matrix Spike % Recovery:	105	100	100	105	110
Matrix Spike Duplicate % Recovery:	125	120	120	122	103
Relative % Difference:	17	18	18	15	6.3

LCS Batch#:	2LCS121995	2LCS121995	2LCS121995	2LCS121995	LCS121395
Date Prepared:	12/19/95	12/19/95	12/19/95	12/19/95	12/11/95
Date Analyzed:	12/19/95	12/19/95	12/19/95	12/19/95	12/13/95
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	GCHP-3B
LCS % Recovery:	95	110	120	120	107

% Recovery Control Limits:	71-133	72-128	72-130	71-120	38-122
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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, #1271

Signature on File

Alan B. Kemp
 Project Manager





MPDS Services
 2401 Stanwell Dr., Ste. 300
 Concord, CA 94520
 Attention: Jarrel Crider

Client Project ID: Unocal #5484, 18950 Lake Chabot Rd., Castro Valley
 Matrix: Solid

QC Sample Group: 5120546-553

Reported: Dec 28, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	I.Z.	I.Z.	I.Z.

MS/MSD Batch#:	5120806	5120806	5120806
Date Prepared:	12/19/95	12/19/95	12/19/95
Date Analyzed:	12/19/95	12/19/95	12/19/95
Instrument I.D.#:	HP-7	HP-7	HP-7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L
Matrix Spike % Recovery:	137	97	84
Matrix Spike Duplicate % Recovery:	114	88	87
Relative % Difference:	1.8	9.7	3.5

LCS Batch#:	LCS121995	LCS121995	LCS121995
Date Prepared:	12/19/95	12/19/95	12/19/95
Date Analyzed:	12/19/95	12/19/95	12/19/95
Instrument I.D.#:	HP-7	HP-7	HP-7
LCS % Recovery:	117	92	82

% Recovery Control Limits:	28-167	35-146	38-150
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Please Note:

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SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
 Project Manager





MPDS Services
2401 Stanwell Dr., Ste. 300
Concord, CA 94520
Attention: Jarrel Crider

Client Project ID: Unocal #5484, 18950 Lake Chabot Rd., Castro Valley
Matrix: Liquid

QC Sample Group: 5120546-553

Reported: Dec 28, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro- benzene
Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
Analyst:	S. Le	S. Le	S. Le	S. Le	S. Le

MS/MSD Batch#:	5121387	5121387	5121387	5121387	5121387
Date Prepared:	12/19/95	12/19/95	12/19/95	12/19/95	12/19/95
Date Analyzed:	12/19/95	12/19/95	12/19/95	12/19/95	12/19/95
Instrument I.D.#:	GC/MS 2	GC/MS 2	GC/MS 2	GC/MS 2	GC/MS 2
Conc. Spiked:	50 µg/L	50 µg/L	50 µg/L	50 µg/L	50 µg/L
Matrix Spike % Recovery:	77	100	92	92	86
Matrix Spike Duplicate % Recovery:	82	105	99	97	90
Relative % Difference:	7.0	5.1	7.5	5.1	4.6

LCS Batch#:	LCS121995	LCS121995	LCS121995	LCS121995	LCS121995
Date Prepared:	12/19/95	12/19/95	12/19/95	12/19/95	12/19/95
Date Analyzed:	12/19/95	12/19/95	12/19/95	12/19/95	12/19/95
Instrument I.D.#:	GC/MS 2	GC/MS 2	GC/MS 2	GC/MS 2	GC/MS 2
LCS % Recovery:	79	103	96	96	91

% Recovery Control Limits:	DL-234	71-157	37-151	47-150	37-160
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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, #1271

Signature on File

Alan B. Kemp
Project Manager





MPDS Services
 2401 Stanwell Dr., Ste. 300
 Concord, CA 94520
 Attention: Jarrel Crider

Client Project ID: Unocal #5484, 18950 Lake Chabot Rd., Castro Valley
 Matrix: Liquid

QC Sample Group: 5120546-553

Reported: Dec 28, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Phenol	2-Chlorophenol	1,4-Dichloro-benzene	N-Nitroso-Di-N-propylamine	1,2,4-Trichloro-benzene	4-Chloro-3-Methylphenol
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	S. Le	S. Le	S. Le	S. Le	S. Le	S. Le

MS/MSD Batch#:	BLK121395	BLK121395	BLK121395	BLK121395	BLK121395	BLK121395
Date Prepared:	12/13/95	12/13/95	12/13/95	12/13/95	12/13/95	12/13/95
Date Analyzed:	12/14/95	12/14/95	12/14/95	12/14/95	12/14/95	12/14/95
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
Conc. Spiked:	200 µg/L	200 µg/L	100 µg/L	100 µg/L	100 µg/L	200 µg/L
Matrix Spike % Recovery:	29	48	44	50	48	52
Matrix Spike Duplicate % Recovery:	27	45	44	50	46	52
Relative % Difference:	7.1	6.5	0.0	0.0	4.3	0.0

LCS Batch#:	LCS121395	LCS121395	LCS121395	LCS121395	LCS121395	LCS121395
Date Prepared:	12/13/95	12/13/95	12/13/95	12/13/95	12/13/95	12/13/95
Date Analyzed:	12/14/95	12/14/95	12/14/95	12/14/95	12/14/95	12/14/95
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
LCS % Recovery:	29	48	44	52	46	52

% Recovery Control Limits:	12-89	27-123	36-97	41-116	39-98	23-97
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SEQUOIA ANALYTICAL, #1271

Signature on File
 Alan B. Kemp
 Project Manager

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.





MPDS Services Client Project ID: Unocal #5484, 18950 Lake Chabot Rd., Castro Valley
 2401 Stanwell Dr., Ste. 300 Matrix: Liquid
 Concord, CA 94520
 Attention: Jarrel Crider QC Sample Group: 5120546-553 Reported: Dec 28, 1995

QUALITY CONTROL DATA REPORT

ANALYTE	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	S. Le	S. Le	S. Le	S. Le	S. Le

MS/MSD	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
Batch#:	BLK121395	BLK121395	BLK121395	BLK121395	BLK121395
Date Prepared:	12/13/95	12/13/95	12/13/95	12/13/95	12/13/95
Date Analyzed:	12/14/95	12/14/95	12/14/95	12/14/95	12/14/95
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
Conc. Spiked:	100 µg/L	200 µg/L	100 µg/L	200 µg/L	100 µg/L
Matrix Spike % Recovery:	44	25	44	38	80
Matrix Spike Duplicate % Recovery:	52	24	42	23	48
Relative % Difference:	16	4.1	4.7	49	50

LCS Batch#:	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
LCS121395	LCS121395	LCS121395	LCS121395	LCS121395	LCS121395
Date Prepared:	12/13/95	12/13/95	12/13/95	12/13/95	12/13/95
Date Analyzed:	12/14/95	12/14/95	12/14/95	12/14/95	12/14/95
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
LCS % Recovery:	50	21	40	34	60

% Recovery Control Limits:	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
	46-118	10-80	24-96	9-103	26-127

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, #1271

Signature on File

Alan B. Kemp
 Project Manager



CHAIN OF CUSTODY

SAMPLER			UNOCAL					ANALYSES REQUESTED							TURN AROUND TIME:		
HOVSIA AJEMIAN			S/S # <u>5484</u> CITY: <u>Castro Valley</u>					TPH-GAS BTEX	TPH- DIESEL	TOG	8010						5 Days
WITNESSING AGENCY			ADDRESS: <u>18950 Lake Chabot Rd.</u>														
SAMPLE ID NO.	DATE	TIME	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION										
MW2	12-5-95	11:45 A.M.	/	/		2 VOA	well.	X								AF SPECIAL	
MW4	"	9:45 A.M.	/	/		2 VOA	"	X								AF UNOCAL	
MW5	"	10:50 A.M.	/	/		4 VOA 1 Amber	"	X	X		X					AF HTBE	
MW6	"	8:45 A.M.	/	/		2 VOA	"	X								AF SITE.	
MW7	"	12:28 P.M.	/	/		4 VOA 1 Amber	"	X	X		X					AF	
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:			DATE/TIME		THE FOLLOWING <u>MUST BE</u> COMPLETED BY THE LABORATORY ACCEPTING SAMPLES FOR ANALYSES:								
<i>Joe Deiana</i>		2:30 P.M. 12-5-95		<i>Toy Mend</i>			12-5-95		1. HAVE ALL SAMPLES RECEIVED FOR ANALYSIS BEEN STORED ON ICE? <u>Y</u>								
<i>Y. Deiana</i>		12-5		<i>[Signature]</i>			12-6		2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED? <u>Y</u>								
<i>[Signature]</i>		12-6		<i>[Signature]</i>			12/6		3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE? <u>N</u>								
<i>[Signature]</i>				<i>[Signature]</i>					4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED? <u>Y</u>								
<i>[Signature]</i>				<i>[Signature]</i>					SIGNATURE: <i>Toy Mend</i> TITLE: <i>analyst</i> DATE: <i>12-5-95</i>								

Note: All water containers to be sampled for TPHG/BTEX, 8010 & 8240 are preserved with HCL. All water containers to be sampled for Lead or Metals are preserved with HN03. All other containers are unpreserved.

CHAIN OF CUSTODY

9.11.14

SAMPLER			UNOCAL				ANALYSES REQUESTED								TURN AROUND TIME:
HOVSIA AJEMIAN			S/S # <u>5484</u> CITY: <u>Castro Valley</u>				TPH-GAS BTEX	TPH-DIESEL	TOG	8010	MTBE				
WITNESSING AGENCY			ADDRESS: <u>18950 Lake Chabot Rd.</u>												
SAMPLE ID NO.	DATE	TIME	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION								REMARKS
MW2	12-5-95	18:45 P.M.	/	/		4 VOAs	wells					X		5120546	AF ATTENTION
MW1	"	9:45 A.M.	/	/		"	"					X		5120547	AF ALAN
MW5	"	10:50 A.M.	/	/		"	"					X		5120548	ASK EMP.
MW6	"	8:45 A.M.	/	/		"	"					X		5120549	AF
MW4	"	12:28 P.M.	/	/		"	"					X		5120550	AF
RELINQUISHED BY:		DATE/TIME	RECEIVED BY:			DATE/TIME	THE FOLLOWING <u>MUST BE</u> COMPLETED BY THE LABORATORY ACCEPTING SAMPLES FOR ANALYSES:								
<i>Joe Deiz</i>		2:30 P.M. 12-5-95	<i>Raymond</i>			12-5-95	1. HAVE ALL SAMPLES RECEIVED FOR ANALYSIS BEEN STORED ON ICE? <u>Y</u>								
(SIGNATURE)		1:30 12-6	(SIGNATURE)			1:30 12-6	2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED? <u>Y</u>								
<i>[Signature]</i>		12-6	<i>[Signature]</i>			12-6	3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE? <u>N</u>								
<i>[Signature]</i>		12-6	<i>Charles</i>			12-6 1600	4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED? <u>Y</u>								
<i>[Signature]</i>			<i>[Signature]</i>				SIGNATURE: <i>Raymond</i> TITLE: <i>analyst</i> DATE: <i>12-5-95</i>								

Note: All water containers to be sampled for TPHG/BTEX, 8010 & 8240 are preserved with HCL. All water containers to be sampled for Lead or Metals are preserved with HN03. All other containers are unpreserved.

CHAIN OF CUSTODY

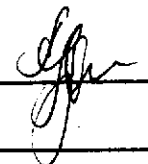

9512114

SAMPLER HOVSIA AJEMIAN "Joe"				UNOCAL S/S # <u>5484</u> CITY: <u>Castro Valley</u>				ANALYSES REQUESTED						TURN AROUND TIME:		
WITNESSING AGENCY				ADDRESS: <u>18950 Lake Chabot</u>				TPH-GAS BTX	TPH- DIESEL	TOG	8010					REMARKS
SAMPLE ID NO.	DATE	TIME	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION	TPH-GAS BTX	TPH- DIESEL	TOG	8010					
ES1	12-5-95					1 v. 0A		✓		5120551						
ES2								✓		5120552						
ES3								✓		5120553						
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:			DATE/TIME		THE FOLLOWING <u>MUST</u> BE COMPLETED BY THE LABORATORY ACCEPTING SAMPLES FOR ANALYSES:							
<i>Joe Ajemian</i>		12-5-95 ^{2:10 pm}		<i>Long March</i>			12-5-95		1. HAVE ALL SAMPLES RECEIVED FOR ANALYSIS BEEN STORED ON ICE? <u>Y</u>							
<i>Y. S. ...</i>		12-6 ^{1:30}		<i>[Signature]</i>			12-5		2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED? <u>Y</u>							
<i>[Signature]</i>				<i>[Signature]</i>			12/6 1600		3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE? <u>N</u>							
<i>[Signature]</i>				<i>[Signature]</i>					4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED? <u>Y</u>							
<i>[Signature]</i>				<i>[Signature]</i>					SIGNATURE: <i>Long March</i> TITLE: <i>analyst</i> DATE: <u>12-5-95</u>							

Note: All water containers to be sampled for TPHG/BTEX; 8010 & 8240 are preserved with HCL. All water containers to be sampled for Lead or Metals are preserved with HN03. All other containers are unpreserved.

CHAIN OF CUSTODY

SAMPLER ALEXANDER ARZOMANOV			UNOCAL S/S # <u>5484</u> CITY: <u>Castro Valley</u>					ANALYSES REQUESTED							TURN AROUND TIME: <u>5 day</u> RECEIVED				
WITNESSING AGENCY			ADDRESS: <u>18950 Lake Chabot Rd</u>					TPH-GAS BTX	TPH-DIESEL	TOG	8010	8270							
SAMPLE ID NO.	DATE	TIME	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION												REMARKS
<u>MW 7</u>	<u>12-8-95</u>		✓	✓		<u>1 amber</u>	<u>well</u>					✓							

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	THE FOLLOWING <u>MUST BE</u> COMPLETED BY THE LABORATORY ACCEPTING SAMPLES FOR ANALYSES:
	<u>1:50</u> <u>12-8-95</u>		<u>12/8</u> <u>1350</u>	1. HAVE ALL SAMPLES RECEIVED FOR ANALYSIS BEEN STORED ON ICE? _____
(SIGNATURE)		(SIGNATURE)		2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED? _____
(SIGNATURE)		(SIGNATURE)		3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE? _____
(SIGNATURE)		(SIGNATURE)		4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED? _____
(SIGNATURE)		(SIGNATURE)		SIGNATURE: _____ TITLE: _____ DATE: _____