MONITORING
PURGING
DISPOSING
SAMPLING

MPDS SERVICES, INCORPORATED

January 12, 1995

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

RE: Unocal Service Station #5325
3220 Lakeshore Avenue
Oakland, California

Per the request of the Unocal Corporation Project Manager, Mr. David B. DeWitt, enclosed please find our report (MPDS-UN5325-03) dated October 18, 1994, 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) 277-2384.

Sincerely,

MPDS Services, Inc.

Jarrel F. Crider

/jfc

Enclosure

cc: Mr. David B. DeWitt

2401 Stanwell Drive, Suite 300, Concord, CA 94520
TEL: (510) 602-5120 FAX: (510) 689-1918

MONITORING
PURGING
DISPOSING
SAMPLING

mpds SERVICES, INCORPORATED

MPDS-UN5325-04
October 18, 1994

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

Attention: Mr. David DeWitt

RE: Quarterly Data Report
Unocal Service Station #5325
3220 Lakeshore Avenue
Oakland, California

Dear Mr. DeWitt:

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 September 22, 1994. Prior to sampling, the wells were each purged of between 10 and 35 gallons of water. During purging operations, the field parameters pH, temperature, and electrical conductivity were recorded and are presented in Table 2. Once the field parameters were observed to stabilize, and where possible, a minimum of approximately four casing volumes had been removed from each well, samples were then collected using a clean Teflon bailer. The samples were decanted into clean VOA vials, which were then sealed with Teflon-lined screw caps, labeled, and stored in a cooler, on ice, until delivery to a state-certified laboratory. 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 Table 3. The concentrations of Total Petroleum Hydrocarbons (TPH) as gasoline and benzene detected in the ground water

2401 Stanwell Drive, Suite 400, Concord, CA 94520
TEL: (510) 602-5120 FAX: (510) 689-1918

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 at (510) 602-5120.

Sincerely,

MPDS Services, Inc.

Sarkis A. Karkarian
Staff Engineer

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

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

/bp

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

cc: Mr. Greg Gurss, GeoStrategies, Inc., Rancho Cordova

TABLE 1 (Continued)

SUMMARY OF MONITORING DATA

◆ The depth to water level and total well depth measurements are taken from the top of the well casings.

* The elevations of the top of the well casings are surveyed relative to City of Oakland benchmark, at the northeasterly corner of Weller and Cheney Avenue (elevation = 9.055', city datum; add 3.00' to U.S.G.S. datum). Prior to June 22, 1994, the well casing elevations were U-1 = 5.32', U2 = 4.53', and U-3 = 7.86' Mean Sea Level.

TABLE 2

RECORD OF THE TEMPERATURE, CONDUCTIVITY, AND pH VALUES
IN THE MONITORING WELLS DURING PURGING AND PRIOR TO SAMPLING

(Measured on September 22, 1994)

Well #	Gallons per Casing Volume	Time	Gallons Purged	Casing Volumes Purged	Temperature (°F)	Conductivity ([μmhos/cm] x1000)	pH
U-1	4.16	1:00 pm	0	0	77.3	2.44	7.83
			4	0.96	74.3	2.59	7.76
			8	1.92	74.5	2.53	7.64
			12	2.88	73.0	2.68	7.40
			14	3.37	74.0	2.64	7.55
		1:15 pm	17	4.09	74.7	2.74	7.59
U-2	4.31	2:25 pm	0	0	78.4	5.25	7.80
			4.5	1.04	77.7	3.95	7.11
			9	2.09	77.6	4.46	7.59
		3:05 pm	10	2.32	80.0	5.15	6.97
			WELL DEWATERED				
U-3	2.97	10:10 am	0	0	72.6	1.74	8.12
			3	1.01	72.2	1.05	8.00
			6	2.02	72.4	1.07	7.55
			7	2.36	71.5	1.05	7.45
			9	3.03	72.1	1.04	7.47
			11	3.70	73.9	1.05	7.52
		11:05 am	12	4.04	74.6	1.00	7.28
U-4	6.11	11:45 am	0	0	73.5	1.14	7.72
			6	0.98	73.5	0.93	7.60
			12	1.96	73.4	0.93	7.52
			16	2.62	72.2	1.13	7.56
			18	2.95	75.9	1.08	7.84
		12:35 pm	20	3.27	78.1	1.10	7.74
			WELL DEWATERED				

TABLE 2 (Continued)

RECORD OF THE TEMPERATURE, CONDUCTIVITY, AND pH VALUES
IN THE MONITORING WELLS DURING PURGING AND PRIOR TO SAMPLING

(Measured on September 22, 1994)

Well #	Gallons per Casing Volume	Time	Gallons Purged	Casing Volumes Purged	Temperature (°F)	Conductivity ([μmhos/cm] x1000)	pH
U-5	8.59	1:45 pm	0	0	78.8	7.43	7.78
			9	1.05	76.6	8.03	7.11
			18	2.10	75.5	7.86	7.01
			27	3.14	75.4	7.64	6.99
		2:00 pm	35	4.07	75.3	7.65	7.07
U-6	2.80	9:15 am	0	0	64.9	2.13	7.11
			3	1.07	66.1	2.15	7.12
			6	2.14	69.1	2.21	7.25
			9	3.21	68.8	2.25	7.30
		9:22 am	12	4.29	69.0	2.24	7.34

TABLE 3

SUMMARY OF LABORATORY ANALYSES
WATER

Date	Well #	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes
9/22/94	U-1	6,100♦	ND	ND	ND	ND
	U-2	8,500♦	29	ND	ND	ND
	U-3	ND	ND	ND	ND	ND
	U-4	ND	0.78	1.3	ND	1.4
	U-5	170	8.4	10	8.5	18
	U-6	130	1.3	0.80	ND	0.73
6/22/94	U-1	200	ND	ND	5.9	21
	U-2	31,000	2,200	62	1,500	3,500
	U-3	ND	ND	ND	ND	ND
	U-4	ND	ND	ND	ND	ND
	U-5	210	7.1	13	4.5	26
	U-6	ND	ND	ND	ND	ND
2/16/94	U-1	6,800♦♦	ND	ND	ND	ND
	U-2	980♦♦	49	13	2.7	40
	U-3	ND	ND	ND	ND	ND
11/16/93	U-1	690♦	ND	ND	ND	ND
	U-2	510♦	ND	ND	ND	ND
	U-3	ND	ND	ND	ND	ND
8/08/93	U-1	4,900**	79	ND	832	270
&	U-2	5,600**	420	ND	410	670
8/09/93	U-3	210	5.0	9.7	0.7	4.1
5/07/93	U-1	8,700	600	240	650	3,300
	U-2	17,000	1,800	660	1,700	4,000
	U-3	ND	ND	ND	ND	ND
2/22/93	U-1	34,000	1,400	5,500	910	7,300
	U-2	3,400	2,400	2,100	1,200	5,800
	U-3	ND	ND	ND	ND	ND
6/11/92	U-1	1,000	80	1.4	6.7	41
	U-2	620	17	2.1	ND	37
	U-3	ND	ND	ND	ND	ND

TABLE 3 (Continued)

SUMMARY OF LABORATORY ANALYSES
WATER

Date	Well #	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes
8/20/92	U-1	400*	1	ND	ND	0.6
	U-2	700	28	6.5	1.3	4.6
	U-3	ND	ND	ND	ND	ND
5/05/92	U-1	230	1.2	ND	ND	ND
	U-2	1,600	120	52	6.2	290
	U-3	ND	ND	ND	ND	ND
2/12/92	U-1	250	ND	ND	ND	ND
	U-2	410	1.9	ND	0.36	0.40
	U-3	ND	ND	ND	ND	ND
10/09/91	U-1	ND	ND	ND	ND	ND
	U-2	230	7.1	ND	ND	11
	U-3	ND	ND	ND	ND	ND
7/03/91	U-1	140	21	4.3	0.36	17
	U-2	2,100	150	25	3.1	290
	U-3	ND	ND	ND	ND	ND
4/01/91	U-1	160	13	8.6	1.0	15
	U-2	1,700	250	89	34	190
	U-3	ND	1.0	2.9	0.53	5.4
1/07/91	U-1	250	22	16	4.2	17
	U-2	1,900	67	5.8	58	69
	U-3	ND	ND	ND	ND	1.8
8/10/90	U-1	690	38	75	8.6	130
	U-2	780	27	46	15	130
	U-3	ND	ND	ND	ND	ND

TABLE 3 (Continued)

SUMMARY OF LABORATORY ANALYSES
WATER

♦ 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.

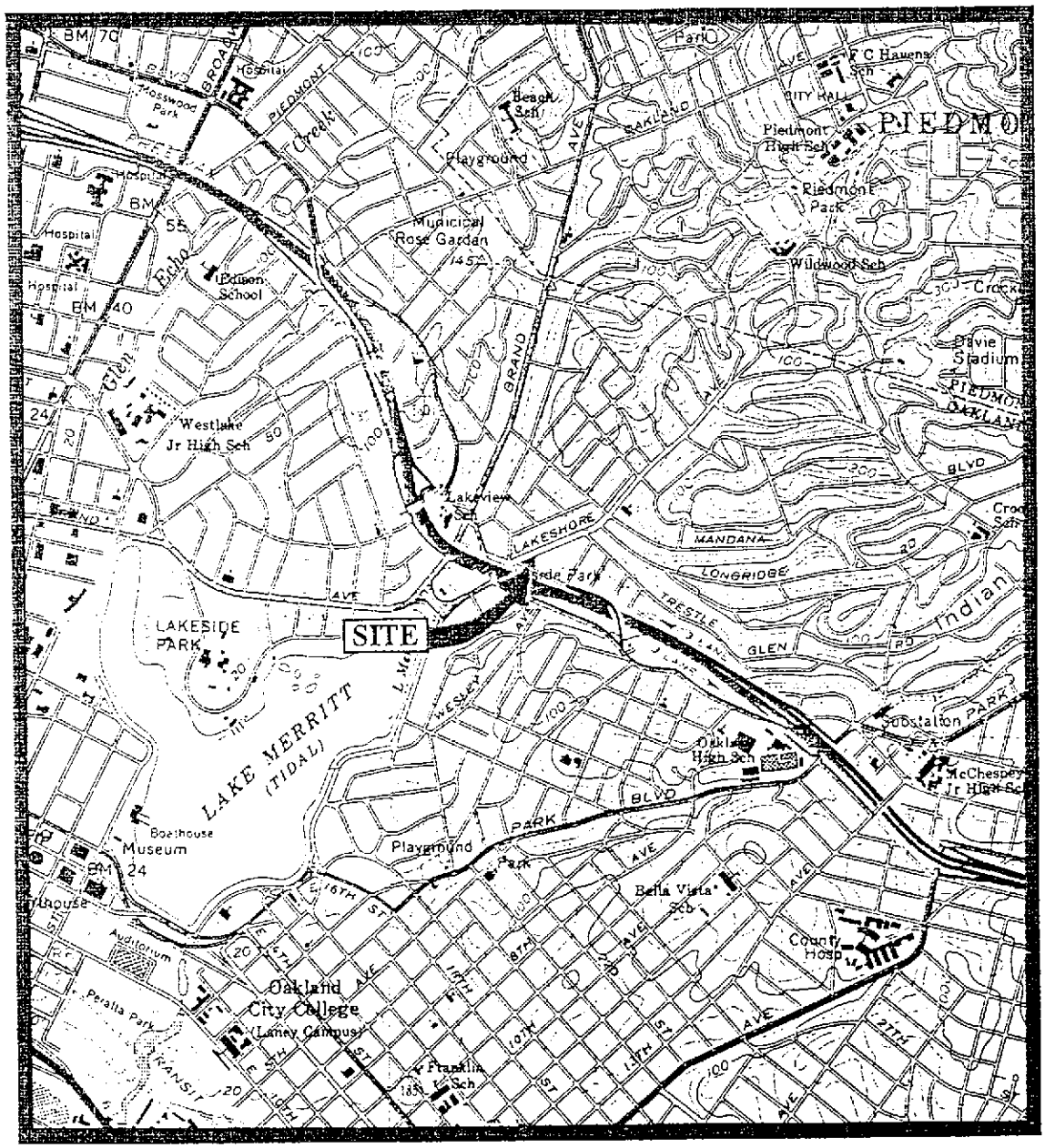
* The positive result for gasoline does not appear to have a typical gasoline pattern.

** The concentration reported as gasoline is primarily due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.

ND = Non-detectable.

Results are in micrograms per liter (µg/L), unless otherwise indicated.

Note: Laboratory analyses data prior to November 16, 1993, were provided by GeoStrategies, Inc.

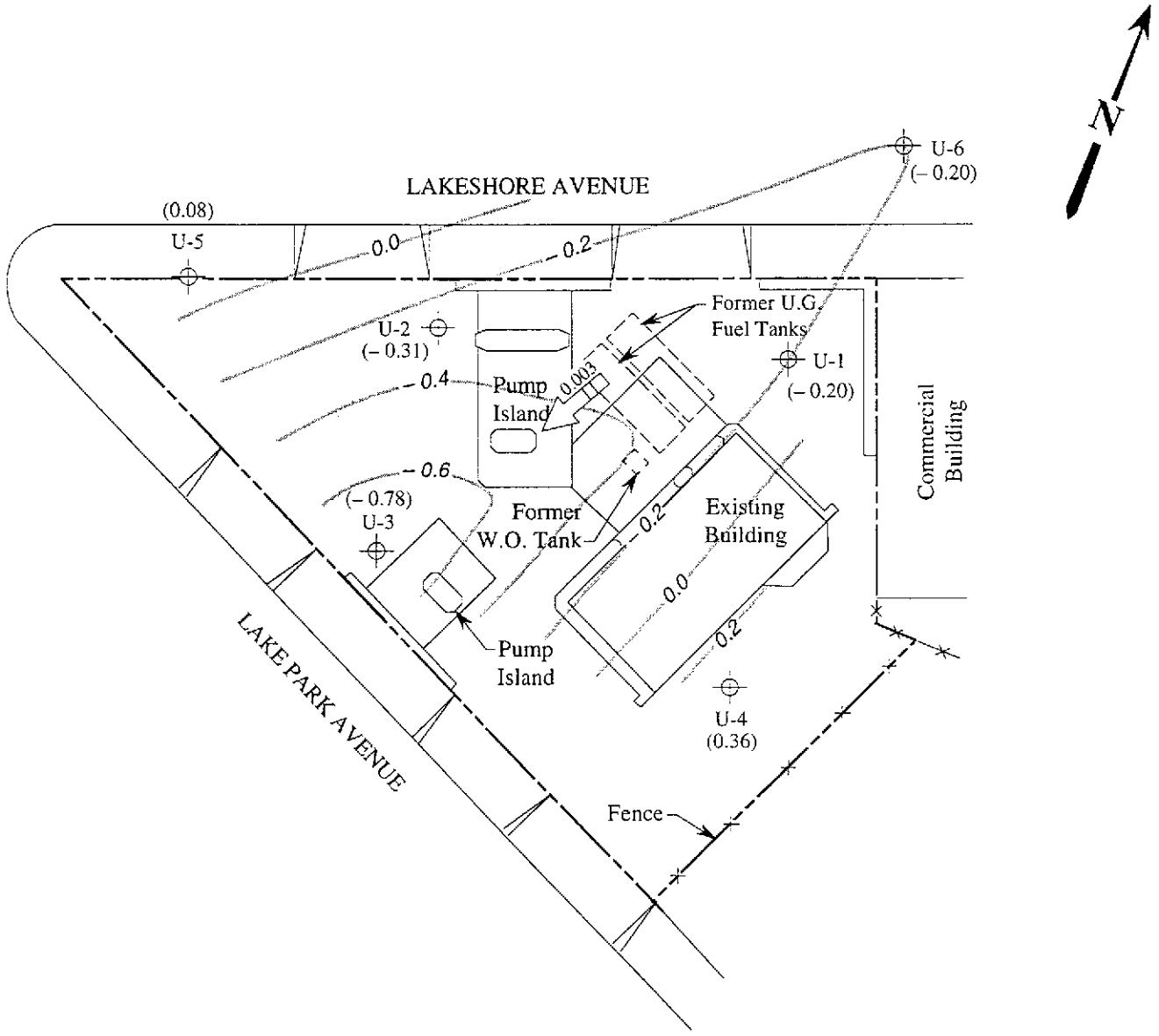


Base modified from 7.5 minute U.S.G.S.
Oakland East and West Quadrangles
(both photorevised 1980)

0 2000 4000

Approx. scale feet

mpds SERVICES, INCORPORATED	**UNOCAL SERVICE STATION #5325** **3220 LAKESHORE AVENUE** **OAKLAND, CALIFORNIA**	**LOCATION MAP**



LEGEND

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

0 40 80

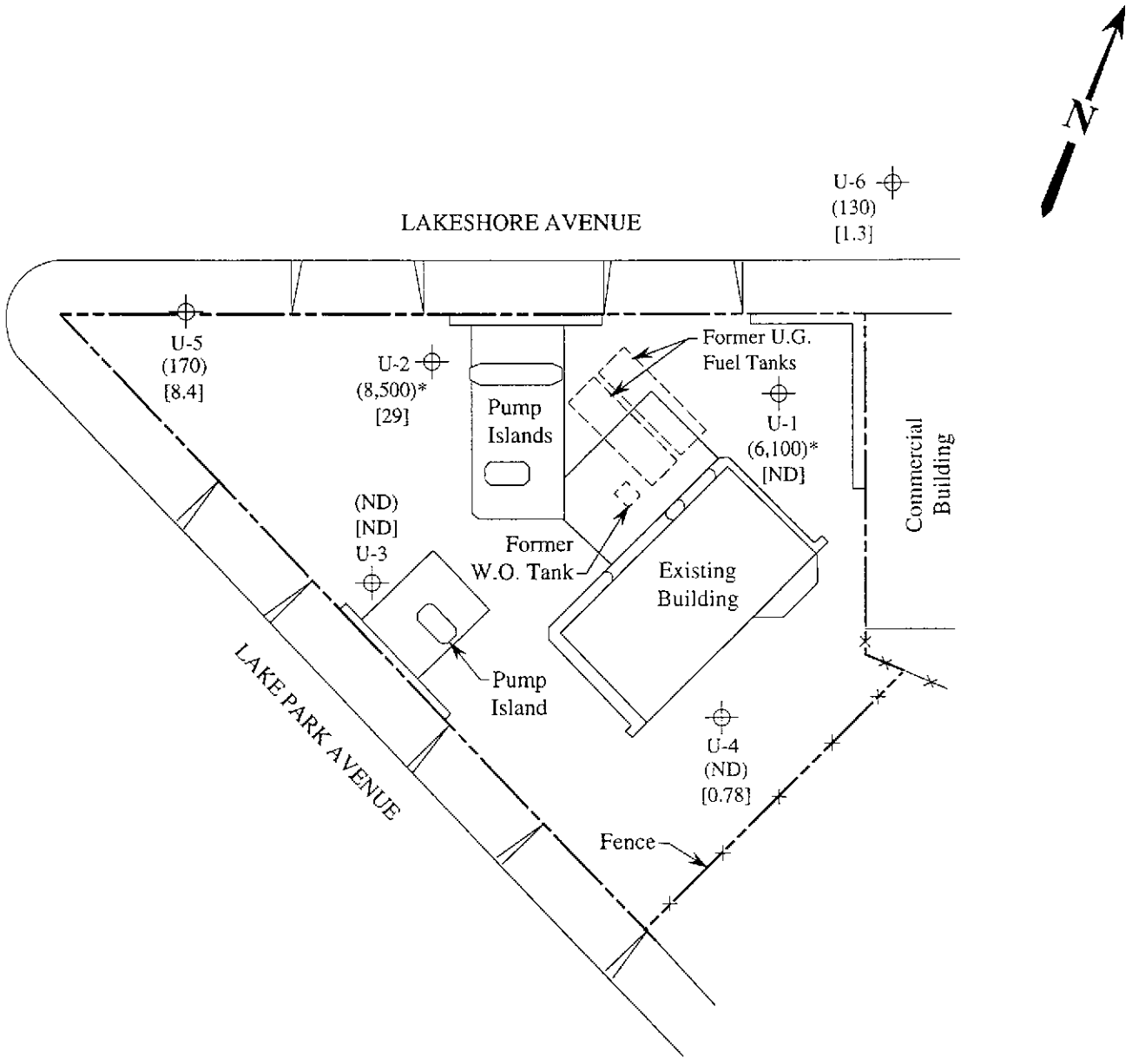
Approx. scale feet

POTENTIOMETRIC SURFACE MAP FOR THE SEPTEMBER 22, 1994 MONITORING EVENT

mpds SERVICES, INCORPORATED

UNOCAL SERVICE STATION #5325
3220 LAKESHORE AVENUE
OAKLAND, CALIFORNIA

FIGURE
1



LEGEND

- ⊕ Monitoring well
- ( ) Concentration of TPH as gasoline in µg/L
- [ ] Concentration of benzene in µg/L

ND = Non-detectable

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

0 40 80

Approx. scale feet

PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON SEPTEMBER 22, 1994

mpds SERVICES, INCORPORATED

UNOCAL SERVICE STATION #5325
3220 LAKESHORE AVENUE
OAKLAND, CALIFORNIA

FIGURE
2

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

MPDS Services	Client Project ID:	Unocal #5325, 3220 Lakeshore, Oakland	Sampled:	Sep 22, 1994
2401 Stanwell Dr., Ste. 400	Matrix Descript:	Water	Received:	Sep 22, 1994
Concord, CA 94520	Analysis Method:	EPA 5030/8015/8020	Reported:	Oct 12, 1994
Attention: Avo Avedessian	First Sample #:	409-1843		

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
409-1843	U1	6,100*	ND	ND	ND	ND
409-1844	U2	8,500*	29	ND	ND	ND
409-1845	U3	ND	ND	ND	ND	ND
409-1846	U4	ND	0.78	1.3	ND	1.4
409-1847	U5	170	8.4	10	8.5	18
409-1848	U6	130	1.3	0.80	ND	0.73

* Hydrocarbons detected did not appear to be gasoline.

Detection Limits:	**50**	**0.50**	**0.50**	**0.50**	**0.50**

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

4091843.MPD <1>

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

MPDS Services	Client Project ID:	Unocal #5325, 3220 Lakeshore, Oakland	Sampled:	Sep 22, 1994
2401 Stanwell Dr., Ste. 400	Matrix Descript:	Water	Received:	Sep 22, 1994
Concord, CA 94520	Analysis Method:	EPA 5030/8015/8020	Reported:	Oct 12, 1994
Attention: Avo Avedessian	First Sample #:	409-1843		

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
409-1843	U1	Discrete Peak*	50	10/5/94	HP-5	105
409-1844	U2	Discrete Peak*	100	10/5/94	HP-5	101
409-1845	U3	--	1.0	10/4/94	HP-2	105
409-1846	U4	--	1.0	10/4/94	HP-5	104
409-1847	U5	Gasoline	1.0	10/4/94	HP-5	91
409-1848	U6	Gasoline	1.0	10/4/94	HP-5	109

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager

Please Note:
* "Discrete Peak" refers to an unidentified peak in the MTBE range.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

MPDS Services
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Avo Avedessian

Client Project ID: Unocal #5325, 3220 Lakeshore, Oakland
Matrix: Liquid
QC Sample Group: 4091843-48
Reported: Oct 12, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha
MS/MSD Batch#:	4091781	4091781	4091781	4091781
Date Prepared:	10/4/94	10/4/94	10/4/94	10/4/94
Date Analyzed:	10/4/94	10/4/94	10/4/94	10/4/94
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Matrix Spike % Recovery:	115	110	110	105
Matrix Spike Duplicate % Recovery:	120	115	110	107
Relative % Difference:	4.2	4.4	0.0	1.9
LCS Batch#:	3LCS100494	3LCS100494	3LCS100494	3LCS100494
Date Prepared:	10/4/94	10/4/94	10/4/94	10/4/94
Date Analyzed:	10/4/94	10/4/94	10/4/94	10/4/94
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
LCS % Recovery:	121	117	115	110
% Recovery Control Limits:	71-133	72-128	72-130	71-120

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.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

MPDS Services
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Avo Avedessian

Client Project ID: Unocal #5325, 3220 Lakeshore, Oakland
Matrix: Liquid
QC Sample Group: 4091843-48
Reported: Oct 12, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha
MS/MSD Batch#:	4091829	4091829	4091829	4091829
Date Prepared:	10/4/94	10/4/94	10/4/94	10/4/94
Date Analyzed:	10/4/94	10/4/94	10/4/94	10/4/94
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Matrix Spike % Recovery:	120	115	115	117
Matrix Spike Duplicate % Recovery:	115	115	115	115
Relative % Difference:	4.2	0.0	0.0	1.7
LCS Batch#:	1LCS100494	1LCS100494	1LCS100494	1LCS100494
Date Prepared:	10/4/94	10/4/94	10/4/94	10/4/94
Date Analyzed:	10/4/94	10/4/94	10/4/94	10/4/94
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
LCS % Recovery:	119	114	117	117
% Recovery Control Limits:	71-133	72-128	72-130	71-120

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.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

MPDS Services
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Avo Avedessian

Client Project ID: Unocal #5325, 3220 Lakeshore, Oakland
Matrix: Liquid
QC Sample Group: 4091843-48
Reported: Oct 12, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha
MS/MSD Batch#:	4091918	4091918	4091918	4091918
Date Prepared:	10/5/94	10/5/94	10/5/94	10/5/94
Date Analyzed:	10/5/94	10/5/94	10/5/94	10/5/94
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Matrix Spike % Recovery:	85	90	95	97
Matrix Spike Duplicate % Recovery:	85	100	100	100
Relative % Difference:	0.0	11	5.1	3.0
LCS Batch#:	2LCS100594	2LCS100594	2LCS100594	2LCS100594
Date Prepared:	10/5/94	10/5/94	10/5/94	10/5/94
Date Analyzed:	10/5/94	10/5/94	10/5/94	10/5/94
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
LCS % Recovery:	89	96	92	98
% Recovery Control Limits:	71-133	72-128	72-130	71-120

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.

M P D S Services, Inc.
2401 Stanwell Drive, Suite 400, Concord, CA 94520
Tel: (510) 602-5120 Fax: (510) 689-1918

CHAIN OF CUSTODY

SAMPLER: RAY MARANGOSIAN
WITNESSING AGENCY:
UNOCAL S/S # 5325 CITY: OAKLAND
ADDRESS: 3220 LAKESHORE
TURN AROUND TIME: REGULAR

SAMPLE ID NO.	DATE	TIME	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION	TPH-GAS BTEX	TPH-DIESEL	TOG	8010					REMARKS
U1	9.22.94	13:25	X	X		2	well	X								4091843
U2	"	15:15	X	X		"	"	X								4091844
U3	"	11:20	X	X		"	"	X								4091845
U4	"	12:45	X	X		"	"	X								4091846
U5	"	14:10	X	X		"	"	X								4091847
U6	"	9:30	X	X		"	"	X								4091848
								X								

RELINQUISHED BY: Ray Marangosian — DATE/TIME: 9-22-94 15:45 — RECEIVED BY:
(SIGNATURE) — (SIGNATURE) Melissa Cremeen 9/23/94 1400
(SIGNATURE) — (SIGNATURE)
(SIGNATURE) — (SIGNATURE)
(SIGNATURE) — (SIGNATURE)

THE FOLLOWING MUST BE COMPLETED BY THE LABORATORY ACCEPTING SAMPLES FOR ANALYSES:

1. HAVE ALL SAMPLES RECEIVED FOR ANALYSIS BEEN STORED ON ICE? YES
2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED? YES
3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE? NO
4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED? YES

SIGNATURE: TITLE: Analyst DATE: