KAPREALIAN ENGINEERING
INCORPORATED

KEI-P91-1004.QR4
June 22, 1993

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

Attention: Mr. Tim Howard

RE: Quarterly Report
Unocal Service Station #5043
449 Hegenberger Road
Oakland, California

Dear Mr. Howard:

This report presents the results of the most recent quarter of monitoring and sampling of the monitoring wells at the referenced site by Kaprealian Engineering, Inc. (KEI), per KEI's proposal (KEI-P91-1004.P2) dated July 7, 1992. The wells are currently monitored monthly and sampled on a quarterly basis. This report covers the work performed by KEI from March through May of 1993.

BACKGROUND

The subject site contains a Unocal service station facility. Six monitoring wells have been installed at the site.

A site description, detailed background information including a summary of all of the soil and ground water subsurface investigation/remediation work conducted to date, site hydrogeologic conditions, and tables that summarize all of the soil and ground water sample analytical results are presented in KEI's report (KEI-P91-1004.R4) dated October 12, 1992.

RECENT FIELD ACTIVITIES

The six wells (MW1 through MW6) were monitored three times and were sampled once during the quarter, except for well MW1, which was not sampled due to the presence of free product. During monitoring, the wells were checked for depth to water and the presence of free product. Prior to sampling, the wells were also checked for the presence of a sheen. No free product or sheen was noted in any of the wells during the quarter, except for 0.02 to 0.33 foot of free product that was observed in well MW1 throughout the quarter. The monitoring data collected this quarter are summarized in Table 1.

Water samples were collected from all of the wells (except well MW1) on May 4, 1993. Prior to sampling, the wells were each purged

2401 Stanwell Drive, Suite 400
Concord, California 94520
Tel: 510.602.5100 Fax: 510.687.0602

of between 7 and 9 gallons of water by the use of a surface pump. The samples were collected by the use of 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 and stored in a cooler, on ice, until delivery to a state-certified laboratory.

HYDROLOGY

The measured depth to ground water at the site on May 4, 1993, ranged between 2.13 and 4.37 feet below grade. The water levels in all of the wells have shown net increases ranging from 0.13 to 1.75 feet since February 4, 1993, except for well MW6, which showed a net increase of 0.20 foot. Based on the water level data gathered during the quarter, the ground water flow direction varied from west-northwesterly over the majority of the site to northeasterly at the western portion of the site, as shown on the attached Potentiometric Surface Maps, Figures 1, 2, and 3. The ground water flow directions reported this quarter are generally similar to the predominantly westerly flow direction reported since August of 1992. The hydraulic gradient at the site on May 4, 1993, was approximately 0.03.

ANALYTICAL RESULTS

The ground water samples collected this quarter were analyzed at Sequoia Analytical Laboratory and were accompanied by properly executed Chain of Custody documentation. The samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline by EPA method 5030/modified 8015, TPH as diesel by EPA method 3510/modified 8015, and benzene, toluene, xylenes, and ethylbenzene by EPA method 8020. In addition, the ground water sample collected from monitoring well MW5 was analyzed for total oil and grease (TOG) by Standard Methods 5520B&F.

The analytical results of all of the ground water samples collected from the monitoring wells to date are summarized in Table 2. The concentrations of TPH as gasoline, benzene, and TPH as diesel detected in the ground water samples collected this quarter are shown on the attached Figures 4, 5, and 6, respectively. Copies of the laboratory analytical results and the Chain of Custody documentation are attached to this report.

DISCUSSION AND RECOMMENDATIONS

Based on the analytical results of the ground water samples collected and evaluated to date, KEI recommends the continuation of the current ground water monitoring and sampling program, per KEI's

proposal (KEI-P91-1004.P2) dated July 7, 1992. The wells are currently monitored monthly and sampled quarterly. The results of the monitoring and sampling program will be documented and evaluated after each monitoring and sampling event. Recommendations for altering or terminating the program will be made as warranted.

As shown on the attached Figures 4, 5, and 6, the extent of the ground water contamination has not been defined at the Unocal site. **Therefore, KEI recommends the installation of four additional monitoring wells in order to further define the extent of the ground water contamination. The tentative locations for the proposed wells are shown on the attached Figure 7.** These locations may be slightly modified due to access limitations. Our work plan/proposal for the installation of these wells is attached for your review and consideration.

Lastly, a continuous surface-skimming free product recovery device has been installed in well MW1. Any free product that accumulates in the skimming device is removed during the monthly monitoring events.

DISTRIBUTION

A copy of this report should be sent to Alameda County Health Care Services Agency, and to the Regional Water Quality Control Board, San Francisco Bay Region.

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.

Our studies assume that the field and laboratory data are reasonably representative of the site as a whole, and assume that subsurface conditions are reasonably conducive to interpolation and extrapolation.

The results of this study are based on the data obtained from the field and laboratory analyses obtained from a state-certified laboratory. We have analyzed these data using what we believe to be currently applicable engineering techniques and principles in the Northern California region. We make no warranty, either expressed or implied, regarding the above, including laboratory analyses, except that our services have been performed in accordance with generally accepted professional principles and practices existing for such work.

If you have any questions regarding this report, please do not hesitate to call us at (510) 602-5100.

Sincerely,

Kaprealian Engineering, Inc.

Thomas J. Berkins
Senior Environmental Engineer

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

License No. 1633
Exp. Date 6/30/94

Timothy R. Ross
Project Manager

/bp

Attachments: Tables 1 & 2
Location Map
Figures 1 through 7
Laboratory Analyses
Chain of Custody documentation
Work Plan/Proposal

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TABLE 1

SUMMARY OF GROUND WATER MONITORING AND PURGING DATA

Well #	Ground Water Elevation (feet)	Depth to Water (feet)	Product Thickness (feet)	Sheen	Water Purged (gallons)
	(Monitored and Sampled on May 4, 1993)				
MW1♦	5.73*	2.13	0.10	N/A	0
MW2	6.48	2.48	0	No	9
MW3	3.52	4.32	0	No	7
MW4	4.91	4.09	0	No	7
MW5	4.90	4.37	0	No	7
MW6	5.40	3.72	0	No	7
	(Monitored on April 1, 1993)				
MW1	5.98*	2.05	0.33	N/A	0
MW2	7.14	1.82	0	--	0
MW3	3.74	4.10	0	--	0
MW4	5.36	3.64	0	--	0
MW5	5.45	3.82	0	--	0
MW6	5.56	3.56	0	--	0
	(Monitored on March 4, 1993)				
MW1	5.97*	1.83	0.02	N/A	0.25 w/3 oz. of product
MW2	7.03	1.93	0	--	0
MW3	4.32	3.52	0	--	0
MW4	5.86	3.14	0	--	0
MW5	5.93	3.34	0	--	0
MW6	5.62	3.50	0	--	0

Well #	Surface Elevation** (feet)
MW1	7.78
MW2	8.96
MW3	7.84
MW4	9.00
MW5	9.27
MW6	9.12

TABLE 1 (Continued)

SUMMARY OF GROUND WATER MONITORING AND PURGING DATA

♦ Monitored only.

* The ground water elevation was corrected for the presence of free product by the use of a specific gravity of 0.77.

** The elevations of the tops of the well covers were surveyed relative to Mean Sea Level (MSL), per the City of Oakland Benchmark #3880 (elevation = 20.37 MSL).

N/A = Not applicable.

-- Sheen determination was not performed.

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TABLE 2

SUMMARY OF LABORATORY ANALYSES
WATER

Date	Sample Number	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Xylenes	Ethyl-benzene
5/04/93	MW1	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					
	MW2	7,100♦	63,000	3,200	17,000	17,000	470
	MW3	250♦♦	1,800*	95	ND	ND	ND
	MW4	ND	110*	0.95	ND	ND	ND
	MW5+	4,600♦	7,400	41	ND	35	1,000
	MW6	1,800♦	4,900	360	18	430	450
2/04/93	MW1	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					
	MW2	6,100♦	18,000	1,600	3,000	6,900	ND
	MW3	550♦♦	3,300	320	ND	6.1	96
	MW4	ND	ND	ND	ND	ND	ND
	MW5+	5,500♦♦	5,700	38	ND	170	620
	MW6	890♦♦	3,600	340	ND	550	290
11/30/92	MW1	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					
	MW2	5,700♦	29,000	2,000	3,400	6,900	1,200
	MW3	94	790**	ND	ND	ND	ND
	MW4	61	420**	ND	ND	ND	ND
	MW5+	470♦♦	930	70	0.79	14	290
	MW6	1,400♦	9,200	550	ND	1,600	740
8/31/92	MW1	8,900♦	64,000	13,000	12,000	22,000	2,500
	MW2	1,600♦	9,000	1,800	640	2,000	140
	MW3	92♦♦	210**	1.0	ND	ND	ND
	MW4	90♦♦	240**	ND	ND	0.54	ND
	MW5	690♦	78	0.89	ND	13	ND
	MW6	750♦♦	ND	ND	ND	ND	ND
5/20/92	MW1	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					
	MW2	4,300♦	24,000	2,200	7,600	11,000	630
	MW3	WELL WAS INACCESSIBLE FOR SAMPLING					
2/18/92	MW1	13,000	150,000	17,000	26,000	26,000	5,200
	MW2	4,300	29,000	1,000	5,300	7,900	260
	MW3	ND	230	4.8	22	33	1.8

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TABLE 2

SUMMARY OF LABORATORY ANALYSES
WATER

♦ 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 diesel and non-diesel mixture.

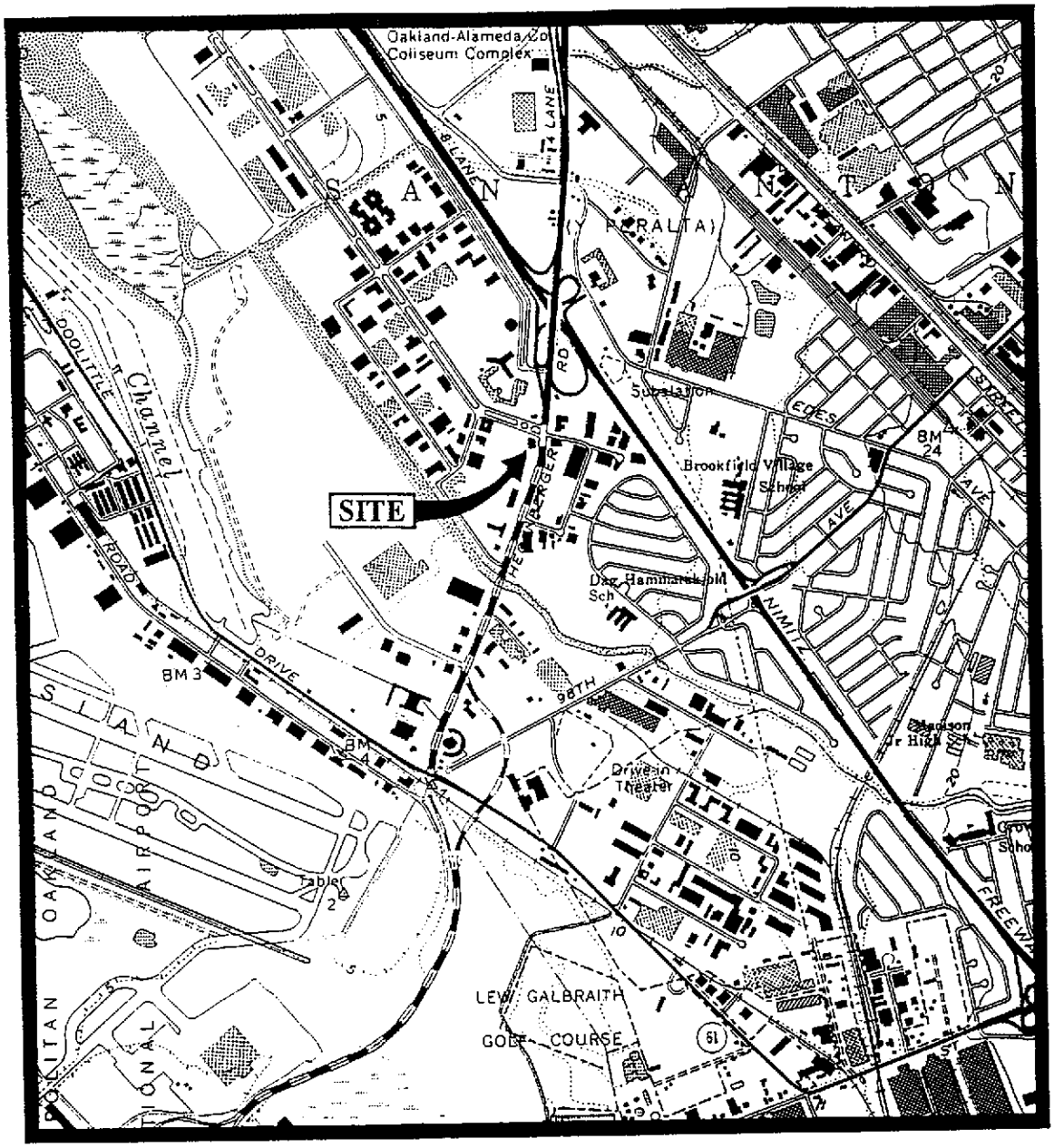
* Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.

** Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be gasoline.

+ TOG was non-detectable.

ND = Non-detectable.

Results in parts per billion (ppb), unless otherwise indicated.

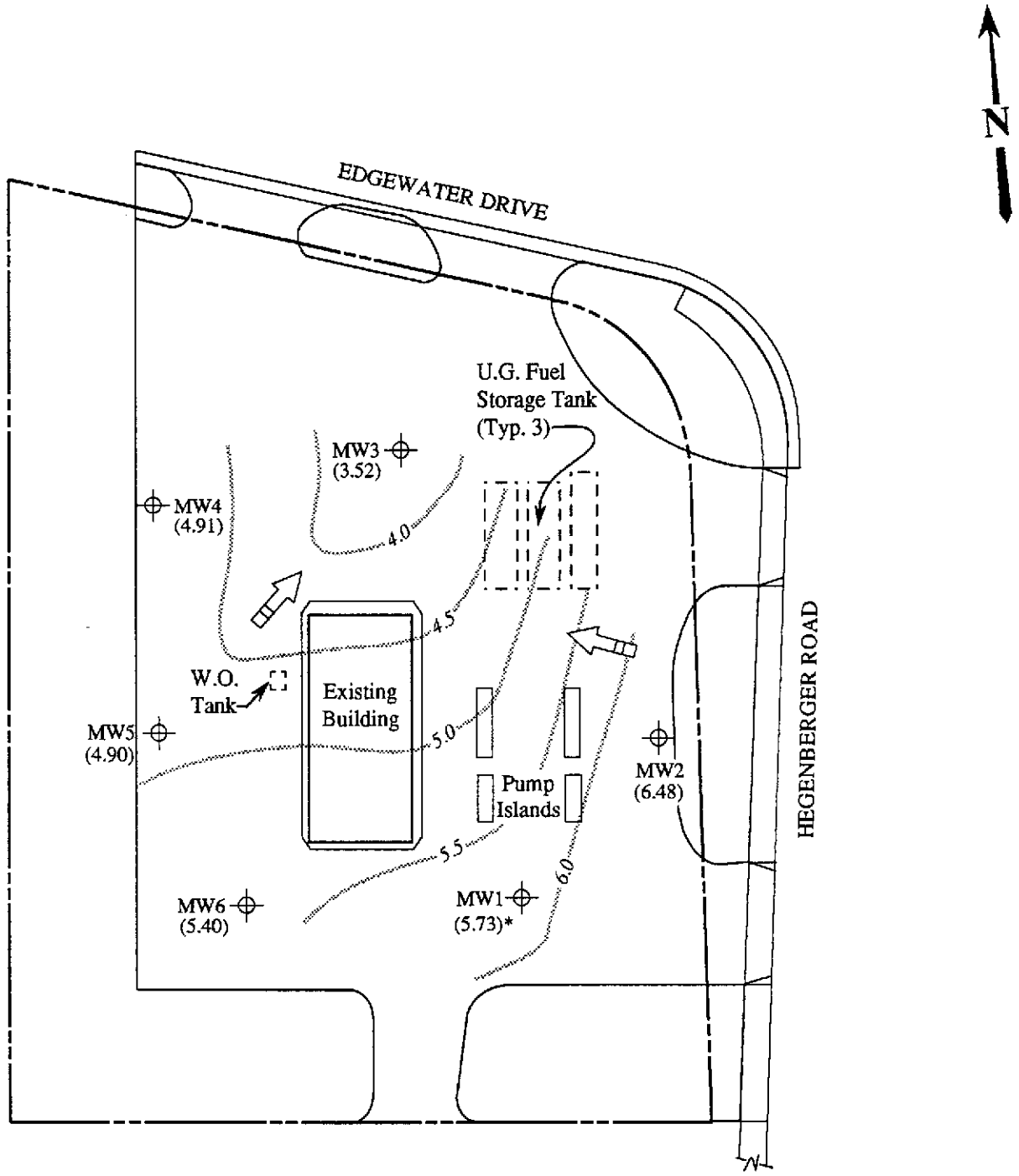


Base modified from 7.5 minute U.S.G.S. San Leandor Quadrangle
(photorevised 1980)

0 2000 4000

Approx. scale feet

KAPREALIAN ENGINEERING INCORPORATED	UNOCAL SERVICE STATION #5043 449 HEGENBERGER ROAD OAKLAND, CALIFORNIA	LOCATION MAP



LEGEND

- Monitoring well
- ( ) Ground water elevation in feet above Mean Sea Level
- Direction of ground water flow
- Contours of ground water elevation

* Ground water elevation corrected due to the presence of free product.

0 40 80

Approx. scale feet

POTENTIOMETRIC SURFACE MAP FOR THE MAY 4, 1993 MONITORING EVENT

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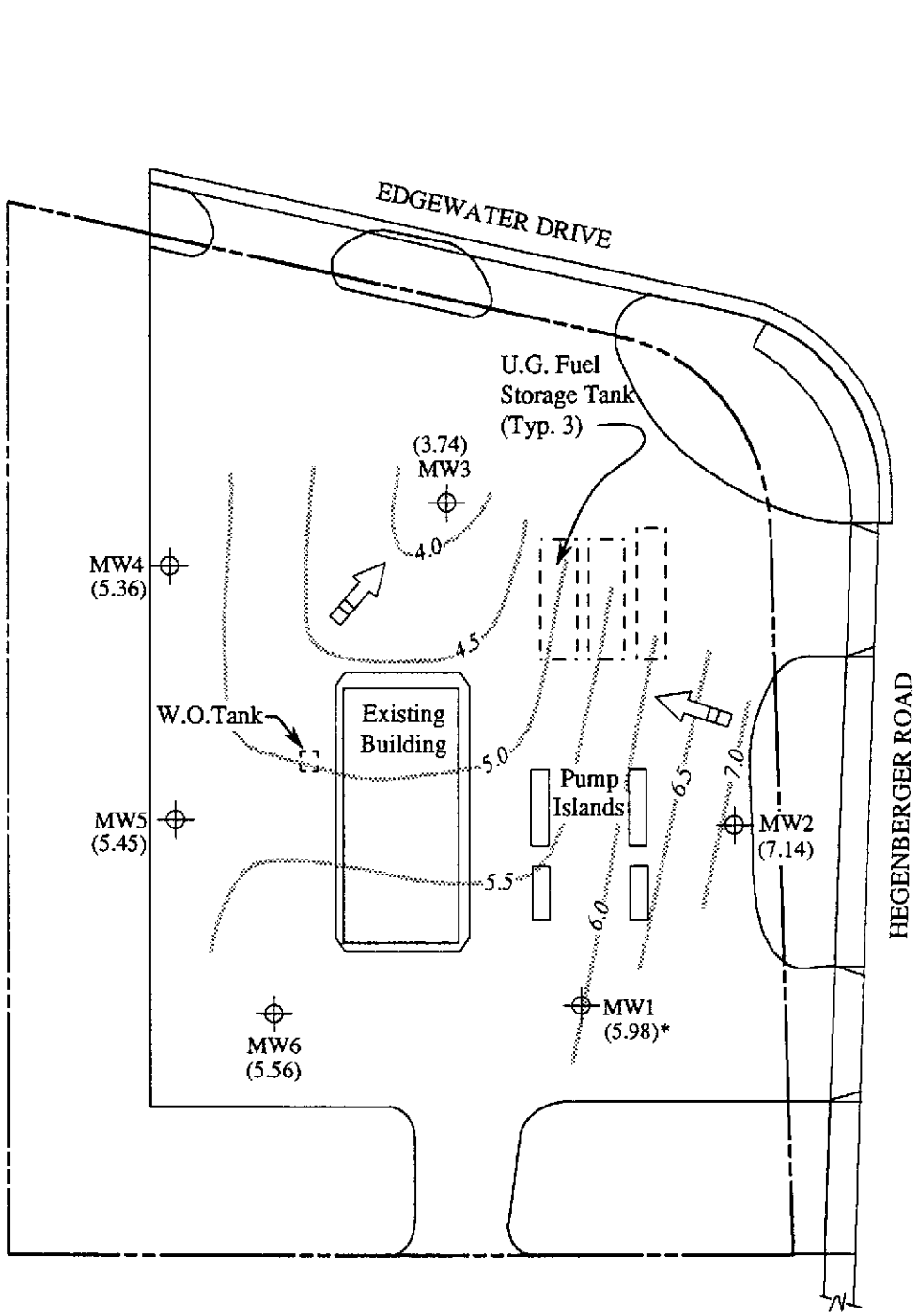
UNOCAL SERVICE STATION #5043
449 HEGENBERGER ROAD
OAKLAND, CA

FIGURE
1



LEGEND

- Monitoring well
- ( ) Ground water elevation in feet above Mean Sea Level
- Direction of ground water flow
- Contours of ground water elevation

* Ground water elevation corrected due to the presence of free product.

0 40 80

Approx. scale feet

POTENTIOMETRIC SURFACE MAP FOR THE APRIL 1, 1993 MONITORING EVENT

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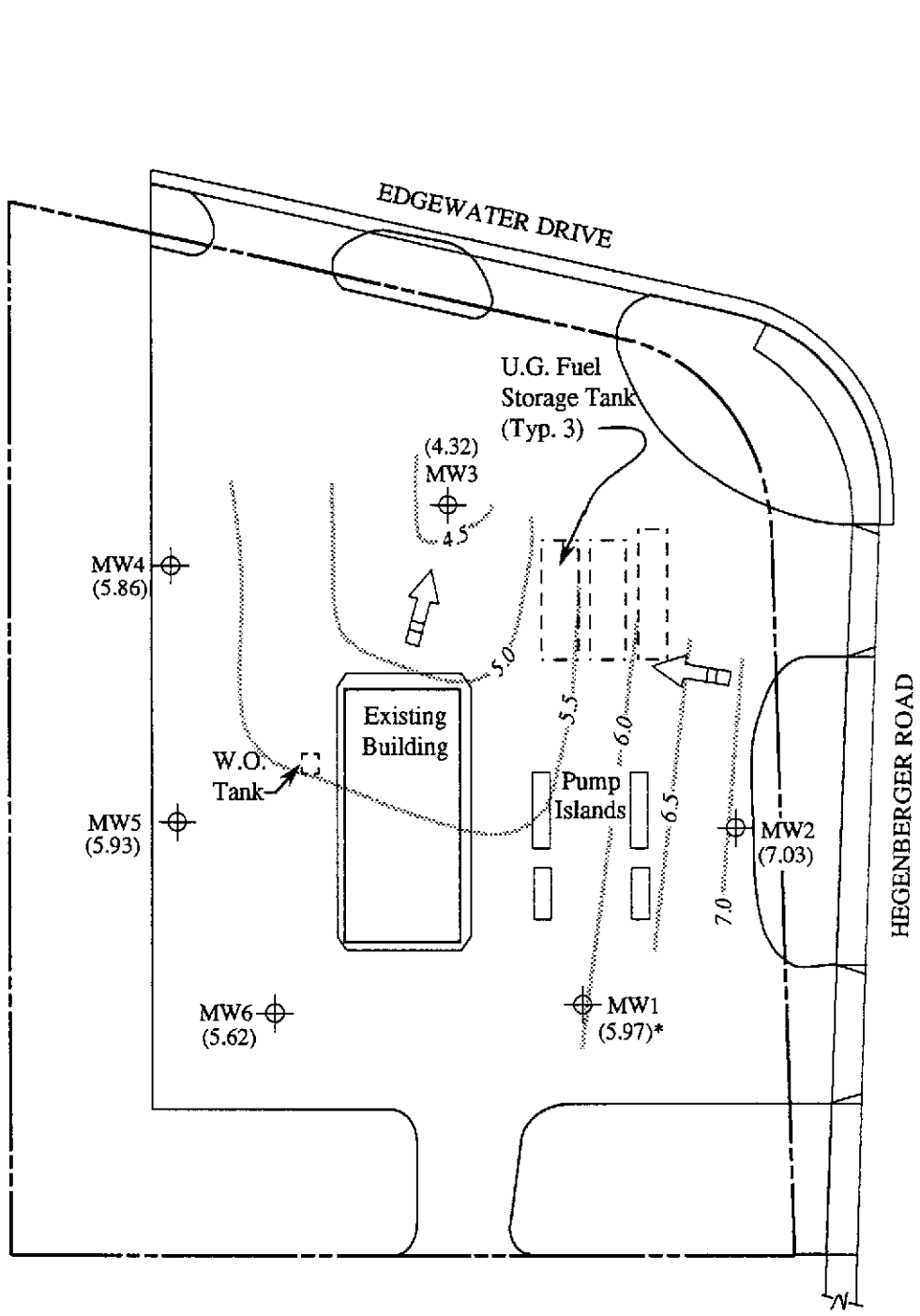
OAKLAND, CA

FIGURE
2



LEGEND

- Monitoring well
- ( ) Ground water elevation in feet above Mean Sea Level
- Direction of ground water flow
- Contours of ground water elevation
- * Ground water elevation corrected due to the presence of free product.

0 40 80

Approx. scale feet

POTENTIOMETRIC SURFACE MAP FOR THE MARCH 4, 1993 MONITORING EVENT

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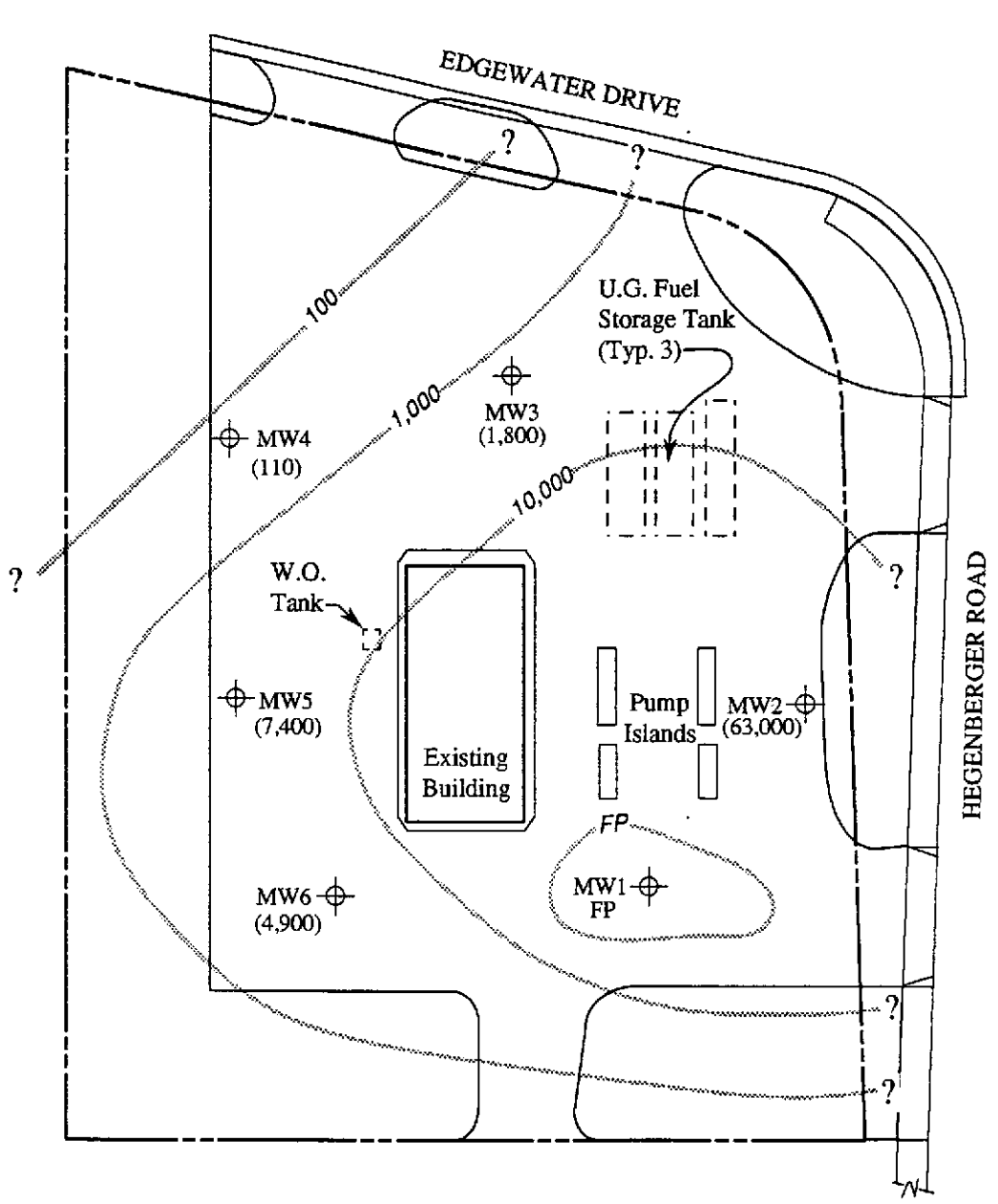
INCORPORATED

UNOCAL SERVICE STATION #5043
449 HEGENBERGER ROAD
OAKLAND, CA

FIGURE
3



LEGEND

- Monitoring well
- ( ) Concentrations of TPH as gasoline in ppb
- Iso-concentration contours in ppb
- FP = Free product

0 40 80

Approx. scale feet

TPH AS GASOLINE CONCENTRATIONS IN GROUND WATER ON MAY 4, 1993

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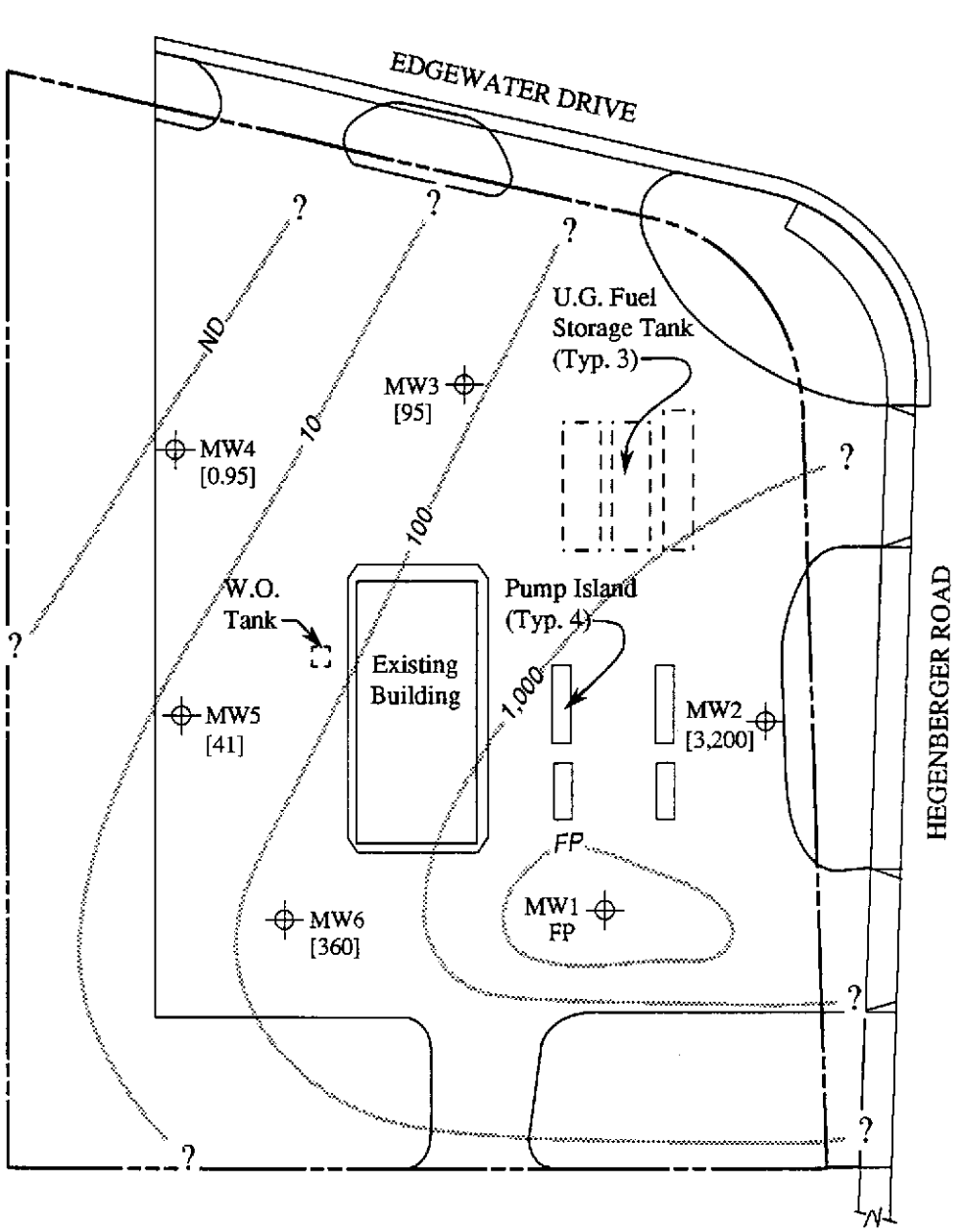
OAKLAND, CA

FIGURE
4



LEGEND

- Monitoring well
- [ ] Concentrations of benzene in ppb
- Iso-concentration contours in ppb
- FP = Free product
- ND = Non-detectable

0 40 80

Approx. scale feet

BENZENE CONCENTRATIONS IN GROUND WATER ON MAY 4, 1993

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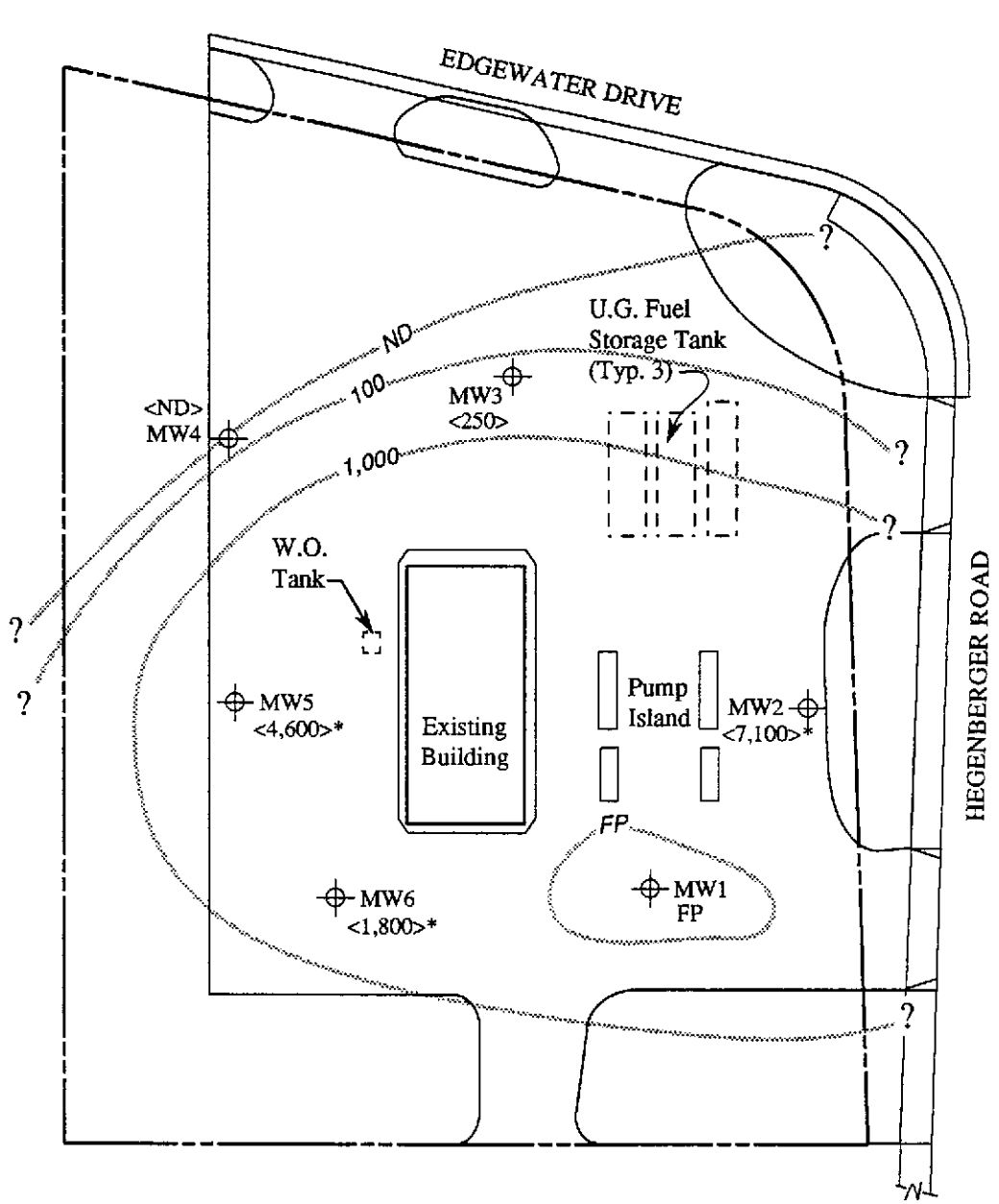
449 HEGENBERGER ROAD
OAKLAND, CA

FIGURE **5**



LEGEND

- Monitoring well
- < > Concentrations of TPH as diesel in ppb
- Iso-concentration contours in ppb
- ND = Non-detectable
- FP = Free product
- * The lab reported that the hydrocarbons detected did not appear to be diesel.

0 40 80

Approx. scale feet

TPH AS DIESEL CONCENTRATIONS IN GROUND WATER ON MAY 4, 1993

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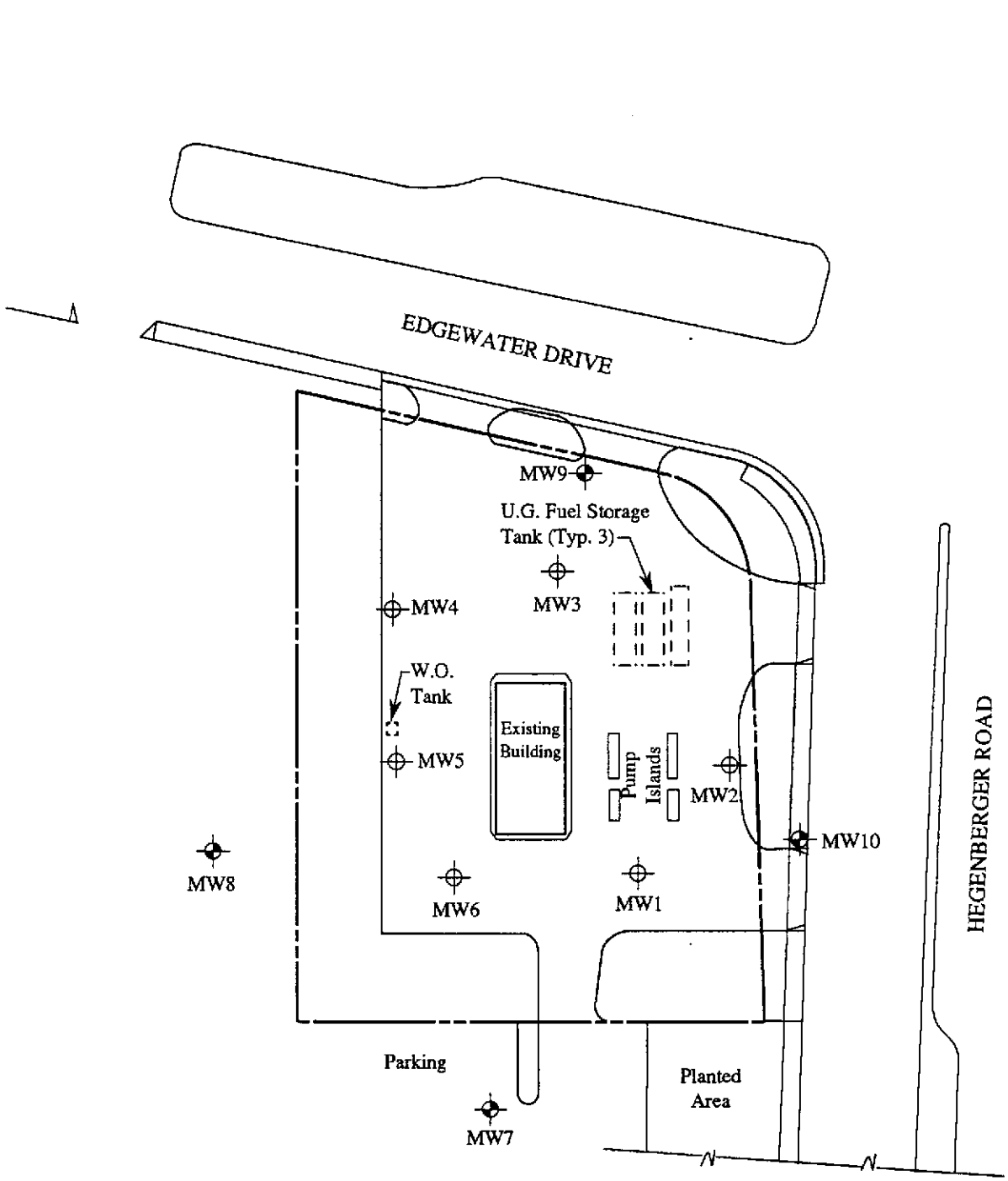
UNOCAL SERVICE STATION #5043
449 HEGENBERGER ROAD
OAKLAND, CA

FIGURE
6



LEGEND

- Monitoring well (existing)
- Monitoring well (proposed)

0 60 120

Approx. scale feet

EXISTING AND PROPOSED MONITORING WELL LOCATION MAP

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449 HEGENBERGER ROAD
OAKLAND, CA

FIGURE
7

SEQUOIA ANALYTICAL
1900 Bates Avenue • Suite LM • Concord, California 94520
(510) 686-9600 • FAX (510) 686-9689

Kaprealian Engineering, Inc.	Client Project ID:	Unocal, 449 Hegenbeger, Oakland	Sampled:	May 4, 1993
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Water	Received:	May 4, 1993
Concord, CA 94520	Analysis Method:	EPA 5030/8015/8020	Reported:	May 17, 1993
Attention: Mardo Kaprealian, P.E.	First Sample #:	305-0206		

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 305-0206 MW 2	Sample I.D. 305-0207 MW 3*	Sample I.D. 305-0208 MW 4*	Sample I.D. 305-0209 MW 5	Sample I.D. 305-0210 MW 6	Sample I.D. Matrix Blank
Purgeable Hydrocarbons	50	63,000	1,800	110	7,400	4,900	
Benzene	0.5	3,200	95	0.95	41	360	
Toluene	0.5	17,000	N.D.	N.D.	N.D.	18	
Ethyl Benzene	0.5	470	N.D.	N.D.	1,000	450	
Total Xylenes	0.5	17,000	N.D.	N.D.	35	430	
Chromatogram Pattern:		Gasoline	Gasoline and Discrete Peak	Gasoline and Discrete Peak	Gasoline	Gasoline	

Quality Control Data

Report Limit Multiplication Factor:	200	20	1.0	20	20	1.0
Date Analyzed:	5/10/93	5/10/93	5/7/93	5/10/93	5/10/93	5/10/93
Instrument Identification:	HP-5	HP-5	HP-2	HP-5	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	111	110	102	91	110	111

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

SEQUOIA ANALYTICAL

Scott A. Chieffo
Project Manager

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

SEQUOIA ANALYTICAL

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(510) 686-9600 • FAX (510) 686-9689

Kaprealian Engineering, Inc.	Client Project ID:	Unocal, 449 Hegenbeger, Oakland	Sampled:	May 4, 1993
2401 Stanwell Dr., Ste. 400	Sample Matrix:	Water	Received:	May 4, 1993
Concord, CA 94520	Analysis Method:	EPA 3510/3520/8015	Reported:	May 17, 1993
Attention: Mardo Kaprealian, P.E.	First Sample #:	305-0206		

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 305-0206 MW 2	Sample I.D. 305-0207 MW 3*	Sample I.D. 305-0208 MW 4	Sample I.D. 305-0209 MW 5*	Sample I.D. 305-0210 MW 6*	Sample I.D. Matrix Blank
Extractable Hydrocarbons	50	7,100	250	N.D.	4,600	1,800	
Chromatogram Pattern:		Non-Diesel Mixture (<C14)	Diesel and Non-Diesel Mixture (<C14)	--	Non-Diesel Mixture (<C14)	Non-Diesel Mixture (<C14)	

Quality Control Data

Report Limit Multiplication Factor:	10	1.0	1.0	10	10	1.0
Date Extracted:	5/11/93	5/11/93	5/11/93	5/11/93	5/11/93	5/11/93
Date Analyzed:	5/13/93	5/12/93	5/12/93	5/13/93	5/13/93	5/13/93
Instrument Identification:	HP-3A	HP-3A	HP-3A	HP-3A	HP-3A	HP-3B

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

SEQUOIA ANALYTICAL

Scott A. Chieffo
Project Manager

Please Note: * "Non-Diesel Mixture" is probably gasoline.

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal, 449 Hegenbeger, Oakland	Sampled:	May 4, 1993
2401 Stanwell Dr., Ste. 400	Matrix Descript:	Water	Received:	May 4, 1993
Concord, CA 94520	Analysis Method:	SM 5520 B&F (Gravimetric)	Extracted:	May 10, 1993
Attention: Mardo Kaprealian, P.E.	First Sample #:	305-0209	Analyzed:	May 11, 1993
			Reported:	May 17, 1993

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/L
305-0209	MW 5	N.D.

Detection Limits:	5.0

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

SEQUOIA ANALYTICAL

Scott A. Chieffo
Project Manager

SEQUOIA ANALYTICAL

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(510) 686-9600 • FAX (510) 686-9689

Kaprealian Engineering, Inc.	Client Project ID:	Unocal, 449 Hegenbeger, Oakland
2401 Stanwell Dr., Ste. 400	Matrix:	Water
Concord, CA 94520		
Attention: Mardo Kaprealian, P.E.	QC Sample Group	3050206-210

Reported: May 17, 1993

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes	Diesel	Oil and Grease
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015	SM 5520
Analyst:	J.F.	J.F.	J.F.	J.F.	K. Wimer	D. Newcomb
Conc. Spiked:	20	20	20	20	300	100
Units:	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L
LCS Batch#:	3LCS051093	3LCS051093	3LCS051093	3LCS051093	BLK051193	BLK051093
Date Prepared:	5/10/93	5/10/93	5/10/93	5/10/93	5/11/93	5/10/93
Date Analyzed:	5/10/93	5/10/93	5/10/93	5/10/93	5/13/93	5/10/93
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	HP-3B	N/A
LCS % Recovery:	124	120	119	123	104	97
Control Limits:	70-130%	70-130%	70-130%	70-130%	80-120%	80-120%
MS/MSD Batch #:	3050238	3050238	3050238	3050238	051193	051093
Date Prepared:	5/10/93	5/10/93	5/10/93	5/10/93	5/11/93	5/10/93
Date Analyzed:	5/10/93	5/10/93	5/10/93	5/10/93	5/13/93	5/10/93
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	HP-3B	N/A
Matrix Spike % Recovery:	115	115	115	116	104	97
Matrix Spike Duplicate % Recovery:	120	120	120	122	106	92
Relative % Difference:	4.2	4.2	4.2	3.4	1.9	5.0

SEQUOIA ANALYTICAL

Scott A. Chieffo
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 LCS % recovery data is used for validation of sample batch results. Due to matrix effects, the QC limits for MS/MSD's are advisory only and are not used to accept or reject batch results.

SEQUOIA ANALYTICAL
1900 Bates Avenue • Suite LM • Concord, California 94520
(510) 686-9600 • FAX (510) 686-9689

Kaprealian Engineering, Inc. Client Project ID: Unocal, 449 Hegenbeger, Oakland
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Mardo Kaprealian, P.E. QC Sample Group: 3050206-210 Reported: May 17, 1993

QUALITY CONTROL DATA REPORT

SURROGATE

Method:	EPA 8015	EPA 8015	EPA 8015	EPA 8015	EPA 8015	EPA 8015
Analyst:	K. Wimer	K. Wimer	K. Wimer	K. Wimer	K. Wimer	K. Wimer
Reporting Units:	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Date Analyzed:	May 13, 1993	May 12, 1993	May 12, 1993	May 13, 1993	May 13, 1993	May 13, 1993
Sample #:	305-0206	305-0207	305-0208	305-0209	305-0210	Matrix Blank
Surrogate % Recovery:	87	84	83	104	81	101

SEQUOIA ANALYTICAL

Scott A. Chieffo
Project Manager

% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference:	Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100

KAPREALIAN ENGINEERING INCORPORATED

CHAIN OF CUSTODY

SAMPLER	Ray (KEI)	SITE NAME & ADDRESS	UNOCAL OAKLAND 449 HEGENBERGER	TURN AROUND TIME:	REGULAR
WITNESSING AGENCY					

SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION	TPHG	BTXE	TPHD	TOG 5520				REMARKS
MW2	5.4			x	x		2 1	VOA AMB	x	x	x					3050206AC
MW3	"			x	x		4	"	x	x	x					207AC
MW4	"			x	x		4	"	x	x	x					208AC
MW5	"			x	x		2 2	VOA AMB	x	x	x	x				209AD
MW6	"			x	x		2 1	VOA AMB	x	x	x					210AC

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Ray (KEI)	5-4-93	[illegible]
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)

The following MUST BE completed by the laboratory accepting samples for analysis:

1. Have all samples received for analysis been stored in ice? Y
2. Will samples remain refrigerated until analyzed? Y
3. Did any samples received for analysis have head space? N
4. Were samples in appropriate containers and properly packaged? Y

Signature: [illegible] Title: [illegible] Date: 5/4/93

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